

## NETWORK CABLING SOLUTIONS

CONNECTING THE POINTS FOR A COMPLETE SOLUTION



connect



manage



identify

**HellermannTyton**

Argentina   Australia   Austria   Belgium   Brazil   Canada   China   Czech Republic   Denmark  
Netherlands   Norway   Philippines   Poland   Portugal   Romania   Singapore   Slovenia





|         |              |             |         |           |          |                |       |               |        |
|---------|--------------|-------------|---------|-----------|----------|----------------|-------|---------------|--------|
| Denmark | Finland      | France      | Germany | Hong Kong | Hungary  | Ireland        | Italy | Japan         | Mexico |
| India   | South Africa | South Korea | Spain   | Sweden    | Thailand | United Kingdom |       | United States |        |

HellermannTyton is a leading, global manufacturer of network cabling solutions which help connect, manage, and identify cable and components. Located in over 30 countries, HellermannTyton brings the best to its customers through global resources channeled to local implementations. Flexibility, agility, and the ability to create value-added, market driven solutions are the hallmarks of every HellermannTyton company across the world.

No matter the complexity of your project – if it entails global or local management, HellermannTyton is uniquely poised to bring you high performance solutions from the data center to the work area.

**HellermannTyton**

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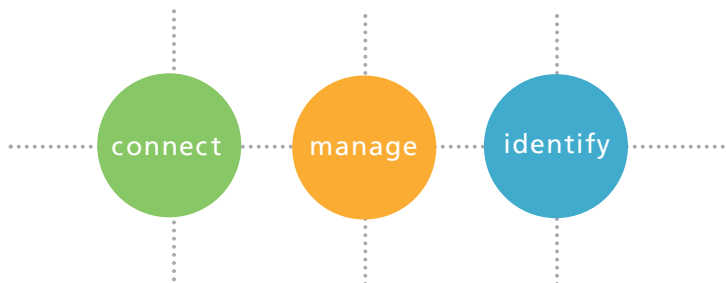


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### CONNECTING THE POINTS FOR A COMPLETE SOLUTION

HellermannTyton, a global manufacturer of network cabling, identification, and cable management solutions, knows that product breadth and quality, along with the flexibility to meet the changing demands of the market are critical for success in this dynamic environment. HellermannTyton offers all of that – with the agility and ability to provide solutions to meet your unique requirements.



HellermannTyton offers unparalleled product breadth under one corporation. Whether you are looking for high performance connectivity products for your data center, telecom room, or work area – a method to route cables which is secure, sturdy and aesthetically pleasing – or a way to organize and label your cables to maximize current and future efficiencies – HellermannTyton has a solution for you, all based from customer-driven designs.

#### CONNECT

If you need connectivity solutions, HellermannTyton offers Category 6A, 6, and 5e copper solutions, along with fiber products, in both loose piece versions along with pre-terminated systems.

HellermannTyton pioneered Category 6 pre-terminated solutions with our patented RapidNet product line. Offered in Category 6A, 6, and fiber systems, HellermannTyton offers time and application tested expertise in the manufacture, assembly, and delivery of pre-terminated systems, with lead times which accommodate project demands.

#### **Customer Driven**

*RapidNet's patented cassette is tough. It thoroughly protects the cable and terminations from initial installation through moves, adds and changes.*



## MANAGE

Effectively managing your cable extends from the data center to the work area – with everything in-between. HellermannTyton literally has you covered. Wire managers assure neat rack cabling. Surface raceways in both single and multi-channel versions mount easily, are used in the toughest environments, and blend seamlessly into interior design schemes. Hook and loop and plastic cable ties and fasteners bundle sensitive network cabling and other facilities cabling.



### Customer Driven

*We know installations aren't always perfect, and HellermannTyton designed its raceways to accommodate the construction environment and drive lowest installed cost. With our InfoStream Multi-Channel Raceway, there is an overlap between fittings, allowing some tolerance when cutting and fitting the cover. Our TSR single channel raceway features a "living hinge" which offers a secure closure, yet the opportunity to rework without damaging the raceway. Also, we use a thick material that is sturdy in both storage and application so the raceway maintains its profile.*

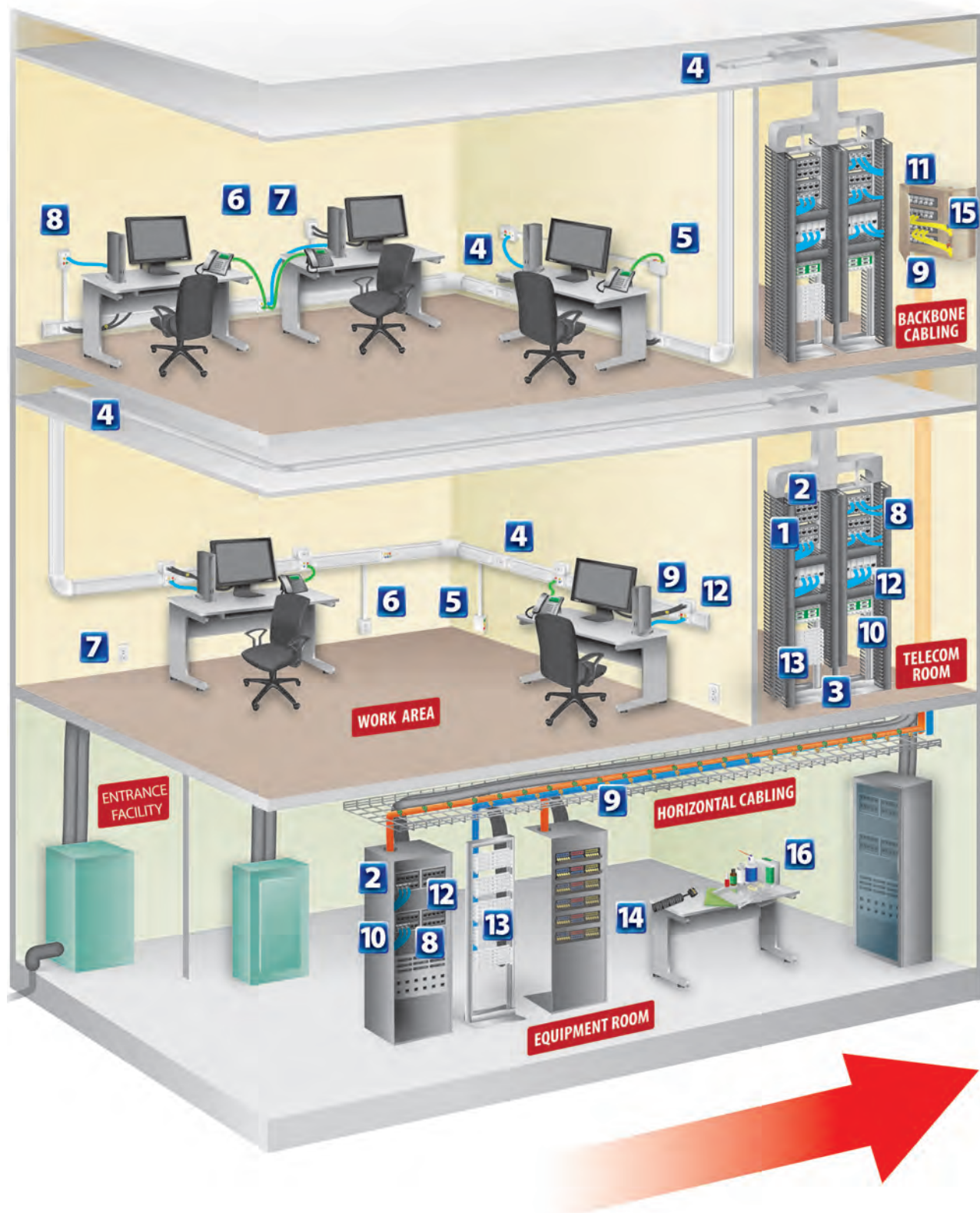
## IDENTIFY

Designed to easily meet the ANSI/TIA/EIA standards for labeling, HellermannTyton's systems are specified and utilized to facilitate project organization from installation planning through moves, adds and changes. TagPrint Pro labeling software drives label production while HellermannTyton's full range of label options accommodate thermal transfer, laser, and ink-jet printers



### Customer Driven

*TagPrint Pro's database capabilities make it easy to administer labeling systems from office planning to installation. An entire list of standards compliant hardware, cable identifiers, and label databases can be uploaded via an Excel spreadsheet. Wire and component labels can be printed on demand and dispersed throughout the installation. This saves valuable labor time usually associated with printing and applying markers from much slower hand held tape printers whose consumables also are much higher per unit.*



## APPLICATIONS GUIDE PRODUCT KEY

|          |                   |                                                                                     |           |                         |                                                                                       |
|----------|-------------------|-------------------------------------------------------------------------------------|-----------|-------------------------|---------------------------------------------------------------------------------------|
| <b>1</b> | Wire Manager      |    | <b>9</b>  | Grip Tie                |    |
| <b>2</b> | Patch Panel       |    | <b>10</b> | Labeling                |    |
| <b>3</b> | Relay Rack        |   | <b>11</b> | Fiber Optics            |   |
| <b>4</b> | Raceway           |  | <b>12</b> | Copper Patch Cord       |  |
| <b>5</b> | Surface Mount Box |  | <b>13</b> | Wiring Block            |  |
| <b>6</b> | Junction Box      |  | <b>14</b> | Installation Tools      |  |
| <b>7</b> | Faceplate         |  | <b>15</b> | Fiber Optic Assembly    |  |
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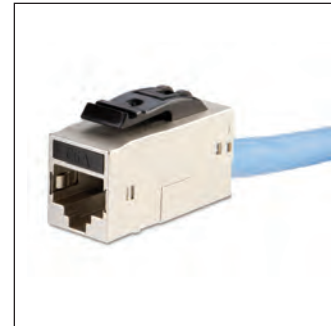
## CATEGORY 6A

HellermannTyton's Deca<sup>10</sup> Series products offer uncompromised support for the 10 Gigabit Ethernet protocol. Deca<sup>10</sup> delivers higher bandwidth and greater speed with a modular shielded jack. The shielded construction aids in higher performance by eliminating the effect of alien crosstalk and external interference.

Designed to "future-proof" network infrastructures, the Deca<sup>10</sup> Series is available in a modular jack and patch panel solution or in our pre-terminated RapidNet solution. The performance of our Deca<sup>10</sup> Series exceeds ANSI/TIA-568-C Category 6A and ISO/IEC 11801:2002/AMD 2 Class E and ISO Class EA requirements.

### Deca<sup>10</sup> Category 6A Features:

- Unique termination tool required. Tool cuts and terminates all eight wires at once
- Jack can be wired to either 568A or 568B
- Modular shielded jack body fully encloses the PCB and is grounded at the panel end
- Shielded modular jack works with 2 different Category 6A shielded patch panels:
  - Two modular patch panel versions, available as a sliding or a fixed panel
  - Modular panels offer 24 shielded jacks in 1U with dual labeling fields
- Category 6A also is offered in RapidNet pre-terminated configurations
- High-performance patch cords are offered with shielded cable and modular plugs in various lengths



### For more information on:

- Category 6A jacks, see page 37
- Category 6A shielded patch panels, see page 64
- Category 6A patch cords, see page 76

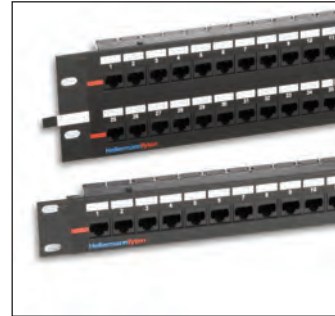
## CATEGORY 6

HellermannTyton's GigaBand® Category 6 line of connectivity solutions combine superior performance with design features which contribute to durable, high-quality installations.

The performance of the GigaBand system provides significant margin over the TIA/EIA Category 6 and ISO Class E requirements. The GigaBand system will easily support applications such as Gigabit Ethernet and 622 Mbps ATM.

### GigaBand Category 6 Features:

- Two different Category 6 patch panels are available: AlphaSnap and Universal
- AlphaSnap patch panels feature modular individual ports, protected identification area, and are supplied with a rear cable manager.
- Both AlphaSnap and Universal patch panels can be wired to 568A or 568B.
- Patented Category 6 modular jacks use innovative, crosstalk cancellation technology and feature unique strain relief.
- Patch cords are offered with a strain relief boot in up to seven different colors.
- Components are ETL Tested and approved for Category 6 Component Compliance.



### For more information on:

- Category 6 jacks, see page 39
- Category 6 AlphaSnap patch panels, see page 65
- Category 6 Universal patch panels, see page 66
- Category 6 patch cords, see page 79

## Network Sciences Program and Warranty Information

### Network Sciences Program

HellermannTyton's Network Sciences program encompasses our highest-performance connectivity products, comprehensive training, and industry leading system and product warranties to guarantee high functioning, reliable installations.

The Network Sciences Program provides a complete package to the customer including:

- Full product line
- Training, installer certification program
- Comprehensive system and product warranties

The Network Sciences package assures the customer that purchasing HellermannTyton structured cabling products includes everything needed for a long-lasting, high-quality installation.

Research and development are key to the Network Sciences program, and HellermannTyton globally invests substantial resources to developing new products which will continue to achieve major breakthroughs in system performance and design.

Included in the Network Sciences system are HellermannTyton's Deca<sup>10</sup> Category 6A, Gigaband® Category 6 and MegaBand® Category 5e structured cabling systems, which far exceed the standard requirements for each classification. Contact us for comprehensive test results or find them online at: <http://www.hellermann.tyton.com>

### System Warranty

HellermannTyton assures installation dependability and maximum performance with its 25-Year Network Sciences Warranty Program. Beyond a product warranty, the Network Sciences warranty guarantees the consistent quality and performance of HellermannTyton's structured cabling products and installed systems for 25 years, when used with an approved cable manufacturer.

The 25-year Network Sciences warranty is only offered through HellermannTyton Certified Installers. These Certified Installers are the essential connection between HellermannTyton connectivity products and the design, installation, testing, and maintenance of a structured cabling system.



### Approved Cable Manufacturers

For a complete listing of HellermannTyton's approved cabling manufacturers, simply go to: <http://www.hellermann.tyton.com>

### Product Warranty

In addition to a performance warranty, HellermannTyton also offers a lifetime warranty on its connectivity products. This warrants that the products are free of factory defects in material and workmanship.

For more warranty information online, go to: <http://www.hellermann.tyton.com>

Network Sciences Certified Installer courses are held regularly at HellermannTyton's training center in Bolingbrook, IL and are also held regionally. Contact us for more information.

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

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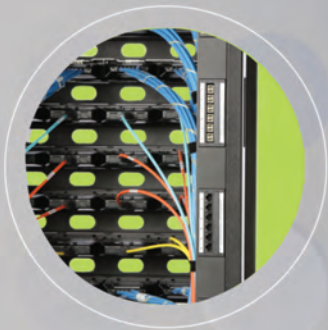
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**RapidNet®****Network Cabling System**

(U.S. Patent No. 7,375,282)

**RapidNet**

RapidNet is HellermannTyton's patented pre-terminated "connect and go" system which offers high performance in copper and fiber solutions within the same footprint. Our pre-terminated solutions do not require on-site termination or certification testing which dramatically reduces installation time - up to 85%. Installations are completed in record time because quality and performance are never compromised. Cut to customer specified lengths, each individual link is terminated and tested by HellermannTyton before being delivered to the site.

Many mission critical data center installations are conducted on weekends or evenings to minimize network downtime or disruption to a customer's business. Even on new building installations, network cabling installers may face strict access and deadline pressures. In addition, the installation company may not have the required staff to meet the project deadline. HellermannTyton has developed RapidNet for these time-critical installations.

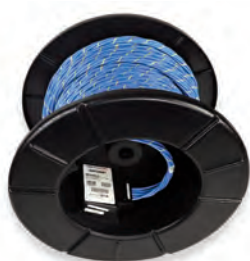
In addition to deadlines, there are pressures to optimize the real estate in the data center. HellermannTyton can help you maximize real estate by doubling the density with our cassettes, as well as offering zero rack mount space options. The RapidNet Rail is designed to offer a simple 0U solution by incorporating RapidNet into the rear of the cabinet, aligning connectivity with the servers.

**Applications**

- Mission Critical Data Centers
- Enterprise Data Centers
- Disaster Recovery
- Storage Area Networks
- Redundancy Planning
- Central Office
- Temporary Networks
- Server Farms
- Cloud Computing
- Colocation Facilities

| Material | Packaging Options                     |
|----------|---------------------------------------|
| Copper   | Box up to 75ft* / Reel from 76-295 ft |
| Fiber    | Box up to 200ft* / Reel from 201+ ft  |

\*Duplicate, shorter lengths packaged in multiples to condense materials on jobsite.



Whether your copper or fiber solution arrives on site in a box or on a reel, the integrity of the product is never comprised.

Once RapidNet® arrives on site, all you need to do is 'plug it in'. It's that easy!



#### Copper Cabling Solutions:

CAT 6 UTP, CAT 6 S/FTP, CAT 6A F/UTP

#### Fiber Cabling Solutions:

62.5/125µm (OM1), 50/125µm (OM2), 50/125µm (OM3), 50/125µm (OM4) and Single Mode

## RNG Series RapidNet Cassette

The cassette is the heart of the RapidNet System, allowing for fast installations and full protection of the terminations. Our new RNG Series RapidNet cassette provides the same protection as the legacy style cassette but with product enhancements that includes twice the density.

### Product Features

- Updated Release Mechanism - a quick-release lever that makes the insertion and release of the cassette easier
- Alignment Guides - ensures the cassette is properly inserted into the panel
- Larger Cassette - allows the higher density options for fiber in a 1U footprint; up to 96 fibers/48 ports in 1U
- Single Modular Panel - provides copper and fiber solutions in the same footprint

### Copper Cassette

Quick-Release Mechanism



Integral earthing system in the cassette that connects to springs in the panel, applies to CAT 6A F/UTP solution only



Alignment Guides

### Fiber Cassette

Grommet provides additional strain-relief for direct connect solutions



Single-Release Lever

Up to 24 fibers / 12 duplex ports



MTP™ (12 fiber connector) options

## RNG Series RapidNet Category 6A Copper F/UTP Solutions

HellermannTyton's Deca<sup>10</sup> Series RapidNet is a Category 6A solution that offers uncompromised support for 10 Gigabit Ethernet. The shielded construction aids higher performance by eliminating the effect of alien crosstalk and external interference, making this an ideal solution for 10 Gigabit Ethernet applications. RapidNet utilizes a bundled cable with six high-performance Category 6A F/UTP cables bound together with a Kevlar binder. The Category 6A cassette is populated with six HellermannTyton Category 6A shielded modular jacks whose die cast body fully encloses the PCB and cable terminations. The new cassette design offers an integral grounding system in the cassette that connects to springs in the modular panel. The cassette is equipped with a new single-lever release mechanism that makes the insertion and release of the cassette easier to use.

### Product Features

- New cassette design features single-release lever
- Cassettes are manufactured from high-strength, light-weight thermoplastic material
- Integral grounding system in the cassette connects to springs in the panel to ensure effective grounding of system
- Exceeds ANSI/TIA-568-C Category 6A and ISO/IEC 11801:2002 / Amd 2, Class E<sub>A</sub>
- Category 6A cassette loaded with HellermannTyton Category 6A modular jacks
- Alignment guides located on the top of the cassette to ensure the correct orientation in the modular panel (RNGSPP1U)
- Available in lengths from 10 ft - 295 ft
- Permanent Link test results included with all links
- Made in the USA



RapidNet Category 6A Cassette to Cassette



RapidNet Category 6A Cassette to Jack

### Product Selection

| FIXED                              |              | VARIABLE - SELECT THE FOLLOWING |                      |                    |                   |                                                                                                                    |            |
|------------------------------------|--------------|---------------------------------|----------------------|--------------------|-------------------|--------------------------------------------------------------------------------------------------------------------|------------|
| PREFIX                             | CABLE BUNDLE | CABLE TYPE                      | CABLE FLAME RATING   | CABLE COLOR        | TERMINATION END 1 | TERMINATION END 2                                                                                                  | LENGTH     |
| RNGC                               | 6            | C CAT 6A F/UTP                  | P Plenum<br>R Riser* | B Blue<br>W White* | C Cassette        | C Cassette<br>J Jack-Pair Stagger Right<br>K Jack-Pair Stagger Left<br>L Jack-Stagger Right<br>M Jack-Stagger Left | 10' - 295' |
| Example Model Number: RNGC6CRWCC65 |              |                                 |                      |                    |                   |                                                                                                                    |            |
| RNGC                               | 6            | C                               | R                    | W                  | C                 | C                                                                                                                  | 65         |

Pair Stagger Right = 1/2 longest, 3/4 next, 5/6 last and shortest pair.

\*Options are available with longer lead times and minimum order requirements.



## **RapidNet® 12 Port Copper Cassette**

In response to the ever-increasing demand for space within cabinets, communications rooms and data centers, HellermannTyton has developed a 12 port cassette for increasing port density and cable management capability within a data center to achieve 48 copper ports in 1U of rack space. This 12 port cassette is perfect for meeting the challenge of maximizing valuable data center floor and rack space.

Ideal for installations where quality and speed are fundamental, this HellermannTyton copper solution delivers a time savings up to 85% when compared to traditional field terminated systems. Networks can be up and running quickly because this high-density cassette is pre-terminated and pre-tested, not only reducing onsite labor but overall costs as well. With the 12 port copper cassette there is the combined benefit of optimum reliability and maximized space for cabinets and racks.

Factory termination and testing provides assurance of performance on site, ensures rapid installation, minimizes network downtimes and business disruptions, and allows for retained control.

### **Product Features**

- Doubles the density of standard RapidNet and traditional 24 port 1U panels.
- Accepts four high-density cassettes, achieving 48 ports in 1U of space when fully populated.
- Includes a labeling field for better identification of ports, and a built-in magnification lens.
- Utilizes two of our six bundled cable 5 around 1 (5A1) design for eliminating potential cross talk issues.
- For use with the 1U 48 port high-density panel designed for the 12 port high-density copper cassette.
- Pre-terminated and 100% tested in a controlled factory environment.
- Permanent Link test results included with all looms/orders.
- Made in the USA.

### **Product Benefits**

- This high-density solution offers better cabling efficiencies and reduces installation time up to 85%.
- Pre-terminated solution reduces personnel access, thus minimizing security risks.
- Waste generated from field terminations is reduced.

Alignment guides

The label sits between the two rows of the RJ45 connectors, so one label identifies two ports

To aid identification, the ID window has a built-in magnification lens

Quick-Release Mechanism

The front presentation is two rows of 6 RJ45 connectors mirroring each other

RapidNet 12 Port Copper Cassette

RNGPP1UHD

#### ACCESSORY

| Part No   | Description                                                 |
|-----------|-------------------------------------------------------------|
| RNGPP1UHD | Modular Patch Panel, RNG Series HD Cassette only, 1U, Black |

#### Product Selection

SELECT THE FOLLOWING (VARIABLE ITEMS IN RED – FIXED ITEMS IN BLACK)

| PREFIX                              | CABLE BUNDLE | CABLE TYPE  | CABLE FLAME RATING | CABLE COLOR       | TERMINATION END 1       | TERMINATION END 2                                                                                                                                                                                                                                                                                                                                    | LENGTH   |
|-------------------------------------|--------------|-------------|--------------------|-------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| RNGC                                | 12           | A CAT 6 UTP | P CMP<br>R CMR     | B Blue<br>W White | H High-Density Cassette | H High-Density Cassette<br>Z Split Cassette<br>J Jack - Pair Stagger Right<br>K Jack - Pair Stagger Left<br>L Jack - Stagger Right<br>M Jack - Stagger Left<br>N Jack - Inline (no stagger)<br>P Plug - Pair Stagger Right<br>Q Plug - Pair Stagger Left<br>R Plug - Stagger Right<br>S Plug - Stagger Left<br>T Plug - Inline (no stagger)<br>D Pod | 20'-140' |
| Example Model Number: RNGC12ARWHH20 |              |             |                    |                   |                         |                                                                                                                                                                                                                                                                                                                                                      |          |
| RNGC                                | 12           | A           | R                  | W                 | H                       | H                                                                                                                                                                                                                                                                                                                                                    | 20       |

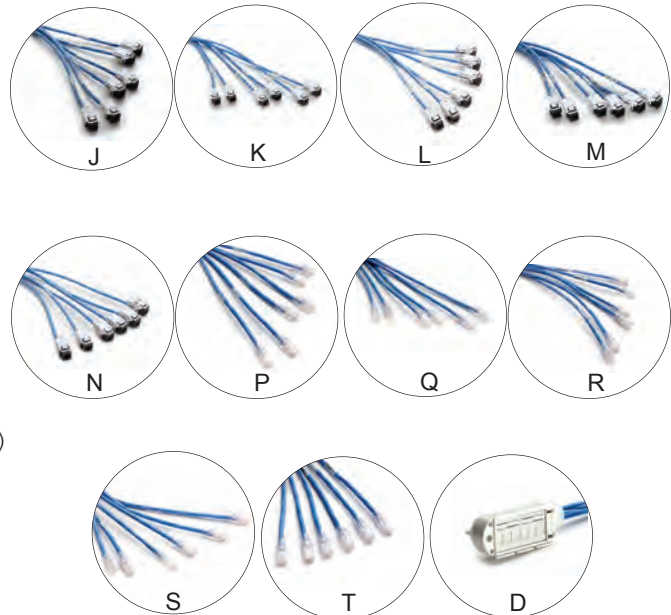
[\*Elite® is a registered trademark of US Conec.]

## RNG Series RapidNet Category 6 Copper UTP Solutions

RNG Series RapidNet Category 6 is an ideal solution for high-performance cabling requirements, such as Gigabit Ethernet. RapidNet utilizes a six bundled cable that has been specially designed to eliminate potential alien crosstalk issues and is bound together with a Kevlar binder, ensuring a high-quality, well managed installation. Cut to the customer-specified length at HellermannTyton, each 6-port loom is supplied terminated at both ends to at least one of the patented RapidNet cassettes. Lengths up to 75 feet are supplied in the RapidNet box; lengths from 76-295 feet are supplied on the RapidNet reel. Each pre-labeled 6-port cassette snaps easily into the modular panel. Removal of the cassette is just as easy with the new release mechanism.

### Product Features

- Positive PSACR over 350 MHz and a typical worst-case margin or 15 dB at 250 MHz
- Exceeds ANSI/TIA-568-C specifications
- Permanent Link test results included with all links
- Cassettes are manufactured from high-strength, light-weight thermoplastic material
- New cassette design features single-release mechanism
- Alignment guides are located on the top of the cassette to ensure the correct orientation in the modular panel (RNGPP1U)
- Available in lengths from 10 ft - 295 ft
- Made in the USA



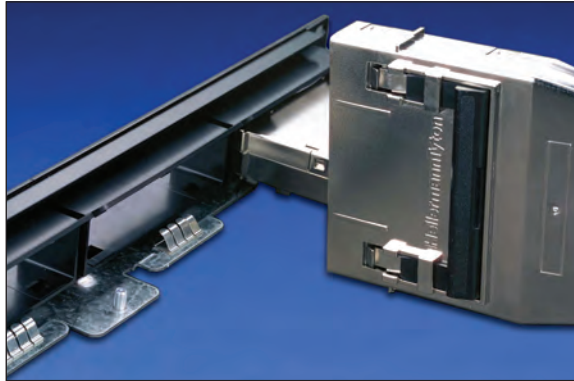
### Product Selection

| FIXED                              |              | VARIABLE - SELECT THE FOLLOWING |                     |                   |                   |                                                                                                                                                                                                                                                                                 |            |
|------------------------------------|--------------|---------------------------------|---------------------|-------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| PREFIX                             | CABLE BUNDLE | CABLE TYPE                      | CABLE FLAME RATING  | CABLE COLOR       | TERMINATION END 1 | TERMINATION END 2                                                                                                                                                                                                                                                               | LENGTH     |
| RNGC                               | 6            | A CAT 6 UTP                     | P Plenum<br>R Riser | B Blue<br>W White | C Cassette        | C Cassette<br>J Jack-Pair Stagger Right<br>K Jack-Pair Stagger Left<br>L Jack-Stagger Right<br>M Jack-Stagger Left<br>N Jack-Inline<br>P Plug-Pair Stagger Right<br>Q Plug-Pair Stagger Left<br>R Plug-Stagger Right<br>S Plug-Stagger Left<br>T Plug-Inline<br>D Pod<br>O Open | 10' - 295' |
| Example Model Number: RNGC6ARWCC65 |              |                                 |                     |                   |                   |                                                                                                                                                                                                                                                                                 |            |
| RNGC                               | 6            | A                               | R                   | W                 | C                 | C                                                                                                                                                                                                                                                                               | 65         |

Pair Stagger Right = 1/2 longest, 3/4 next, 5/6 last and shortest pair.



## RapidNet Category 6 Shielded Copper Solutions



For network cabling applications that require extra security and protection, HellermannTyton offers RapidNet in a fully shielded Category 6 solution. Shielded RapidNet is an ideal solution for high performance cabling requirements, such as Gigabit Ethernet and 10 Gigabit Ethernet. Shielded RapidNet utilizes a bundled cable with 6 high-performance Category 6 ScTP (screened twisted-pair) cables bound together with a Kevlar binder. The cassettes for the shielded solution have a metal plating applied to both the inside and outside surfaces to provide for proper grounding. This dual layer shield ensures effective screening of emissions and immunity of external electrical noise.

### Product Features

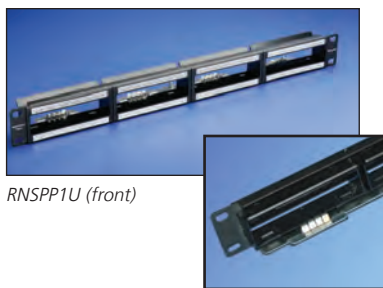
- Cassettes are manufactured from high-strength, light-weight thermoplastic material
- Metal plating on inside and outside of cassettes ensures effective grounding of system
- Shielded RapidNet modular panel is interchangeable with RapidNet Category 6 UTP copper and fiber cassettes
- Exceeds ANSI/TIA-568-C.2 Category 6 and ISO/IEC 11801 Class E requirements
- Available in lengths from 10 ft - 295 ft
- 10 Gig TSB-155 compliant with closed solution. Contact HellermannTyton for application guidelines



### Cassette to Cassette (panel to panel)

| Product Selection |                                                              |            |       |
|-------------------|--------------------------------------------------------------|------------|-------|
| Part No.          | Description                                                  | Cable Type | Color |
| RNSC6CMPXXX*      | RapidNet Shielded CAT6 ScTP cassette to cassette 6 port loom | Plenum     | Blue  |

\*Note: To complete **Part No.**, replace the "X's" with the length required in feet, 10 to 295 feet.



RNSPP1U (front)

RNSPP1U (back)

### Shielded Modular Patch Panel

| Product Selection |                                                                           |                      |
|-------------------|---------------------------------------------------------------------------|----------------------|
| Part No.          | Description                                                               | Cable Type           |
| RNSPP1U           | RapidNet Shielded Modular Panel - 1U                                      | 24 ScTP copper ports |
| RNSPP1URS         | RapidNet Shielded Modular Panel - 1U with Rack-Snap inserts pre-installed | 24 ScTP copper ports |

## RNG Series RapidNet Fiber Solutions

RNG Series RapidNet Fiber is an excellent solution for high bandwidth needs or extended distances. The new RNG Series cassette offers double the density of our classic version, up to 24 fiber or 12 duplex ports. RapidNet Fiber utilizes a 12 fiber single unit plenum (OFNP) distribution cable for LC and SC connections or a 24 fiber zip cord loose tube plenum (OFNP) cable for LC connections. Cut to customer specified length at HellermannTyton, each 12 or 6 port loom is supplied terminated at both ends to at least one of the patented RapidNet cassettes. Lengths up to 200 feet are supplied in the RapidNet box; lengths of 201 feet or more are supplied on the RapidNet reel. Each pre-labeled 12 or 6 port fiber cassette snaps easily into the modular panel.

### Product Features

- Exceeds ANSI/TIA-568-C.2 and IEEE 802.3ae 10GbE standards
- Certification test reports included with all fiber links
- Cassettes are manufactured from high-strength, light-weight thermoplastic material
- New cassette design features single-release mechanism
- Alignment guides located on the top of the cassette to ensure the correct orientation in the modular panel (RNGPP1U)
- Modular panel accepts 4 RapidNet cassettes, allowing up to 96 fibers / 48 ports in 1U

### LC Cassette



### SC Cassette



### Product Selection

| FIXED                                     | VARIABLE - SELECT THE FOLLOWING                                                                                                                                                                   |                    |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                          |                            |                      |            |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------|------------|
| PREFIX                                    | CABLE TYPE                                                                                                                                                                                        | CABLE FLAME RATING | TERMINATION END 1                                                                                                               | TERMINATION END 2                                                                                                                                                                                                                                                                                                                                        | CABLE COUNT                | NO. OF PULL KITS     | LENGTH     |
| RNGF                                      | <b>A</b> 50/125µm (OM3) Multimode<br><b>B</b> 50/125µm (OM2) Multimode<br><b>C</b> 62.5/125µm (OM1) Multimode<br><b>H</b> 50/125µm (OM4) Multimode <sup>†</sup><br><b>D</b> 8.3/125µm Single Mode | <b>P</b> Plenum    | <b>L</b> LC Cassette<br><b>C</b> LC APC Cassette <sup>†</sup><br><b>S</b> SC Cassette*<br><b>D</b> SC APC Cassette <sup>†</sup> | <b>L</b> LC Cassette (straight thru)<br><b>J</b> LC Cassette (REV; A-B)<br><b>K</b> LC 900 µm Fanout<br><b>H</b> LC 2.0 mm Fanout<br><b>C</b> LC APC Cassette <sup>†</sup><br><b>S</b> SC Cassette (straight thru)<br><b>T</b> SC Cassette (REV; A-B)<br><b>R</b> SC 900 µm Fanout<br><b>Q</b> SC 2.0 mm Fanout<br><b>D</b> SC APC Cassette <sup>†</sup> | <b>A</b> 12<br><b>B</b> 24 | <b>0</b><br><b>1</b> | 10' - 500' |
| <b>Example Model Number: RNGFDPLHB145</b> |                                                                                                                                                                                                   |                    |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                          |                            |                      |            |
| RNGF                                      | D                                                                                                                                                                                                 | P                  | L                                                                                                                               | H                                                                                                                                                                                                                                                                                                                                                        | B                          | 1                    | 45         |

\*SC versions only available in 12 fiber cable count.

<sup>†</sup>Options are available with longer lead times and minimum order requirements  
BIF options available



## RapidNet® MTP™ Very High Density (VHD) Fiber Cassette

Today, data centers are faced with many challenges – rising operations costs, space constraints, and evolving bandwidth requirements – along with the necessity for faster processing speeds. In response to these pressures, HellermannTyton introduces its high-density fiber solution for conserving space, achieving faster access times, and simplifying installations with minimal downtimes.

The RapidNet MTP VHD Fiber Cassette is the ideal solution for data center designers looking to be more efficient with existing architecture as well as future proof their IT investment for technological advancements. Data center environments can benefit from MTP connectivity that is capable of meeting today's requirements of 10GbE support and tomorrow's performance levels with a solution that is 40GbE and 100GbE ready.

IT technical staff can replicate their high-density fiber optic switch ports, and have the flexibility to make adds, moves and changes in a convenient manner. The MTP VHD is there to support a high-density fiber solution which can provide 72 fibers per cassette and 288 fibers on a one rack unit (1U) design.

### Product Features

- Available in a variety of fiber types: OM3, OM4, OS1
- Up to 288 fibers in one rack unit of space
- 40GbE and 100GbE ready
- Direct factory termination with test results provided
- Fully interchangeable with other RapidNet RNG Series products

### Product Benefits

- Requires two less mated pair connections with direct termination
- Features a floating ferrule design that guarantees fiber contact integrity
- Provides fiber port identification for simple management
- Reduces cable congestion in pathways and spaces
- Increases life cycle of cabling infrastructure

RapidNet MTP VHD  
Fiber Cassette



MTP is a registered trademark of US Conec Ltd.

## RapidNet• MTP VHD Fiber solution delivers . . .

**NETWORK PERFORMANCE** This factory-terminated and tested cassette provides simple to install, compact, modular fiber networks with the capacity to easily migrate to 40GbE and 100GbE networks.

RapidNet MTP VHD offers standard MTP typical insertion loss of 0.2db and maximum insertion loss of 0.50db per mated pair. Customers can choose an optional Elite® connector with 0.1db typical insertion loss and maximum 0.35db insertion loss. [Please contact your HellermannTyton representative for additional information]\*

**EXTENDED FUNCTIONALITY** Fully interchangeable with other Fiber RNG RapidNet components, the MTP VHD cassette presents six MTP 12 fiber connectors that enable up to 288 fibers in 1U of rack space.

**SCALABILITY** The use of the RapidNet MTP VHD cassette in a topology will minimize pathway congestion and enable scaling to thousands (and hundreds of thousands) of fiber optic connections.

**FLEXIBILITY** The RapidNet MTP VHD cassette provides the flexibility to easily configure and reconfigure the cabling infrastructure to meet current and future networking requirements.

**MANAGEABILITY** The RapidNet MTP VHD cassette is engineered for ease of implementation and improved manageability for meeting the challenge of data center moves, additions, and changes with the least disruption.



LC Cassette

| Technical Information |                        |                        |                             |
|-----------------------|------------------------|------------------------|-----------------------------|
|                       | Typical Insertion Loss | Maximum Insertion Loss | Typical Return Loss         |
| Standard MM           | 0.2dB                  | 0.5dB                  | > 25dB                      |
| Elite MM              | 0.1dB                  | 0.35dB                 | > 20dB                      |
| Standard SM           | 0.25dB                 | 0.75dB                 | > 60dB<br>(8° Angle Polish) |
| Elite SM              | 0.1dB                  | 0.35dB                 | > 60dB<br>(8° Angle Polish) |

### Product Selection

| SELECT THE FOLLOWING (VARIABLE ITEMS IN RED – FIXED ITEMS IN BLACK) |                                                                                                              |                    |                                                                                                                                                              |                                                                                                                                                                                                                                            |             |                                                                            |                                                                       |                                  |                 |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|-----------------|
| PREFIX                                                              | FIBER TYPE                                                                                                   | CABLE FLAME RATING | TERMINATION END 1                                                                                                                                            | TERMINATION END 2                                                                                                                                                                                                                          | CABLE COUNT | BREAKOUT LENGTH                                                            | POLARITY                                                              | NO. OF PULL KITS                 | LENGTH          |
| RV                                                                  | <b>C</b> 50/125µm (OM3) Multimode<br><b>D</b> 50/125µm (OM2) Multimode<br><b>E</b> 9/125µm (OM1) Single Mode | <b>P</b> Plenum    | <b>M</b> MTP 12 Fiber Cass. (Male)<br><b>N</b> MTP 12 Fiber Cass. (Female)<br><b>Y</b> Elite MTP 12 Fiber Cass. (M)<br><b>Z</b> Elite MTP 12 Fiber Cass. (F) | <b>M</b> MTP 12 Fiber Cass. (Male)<br><b>N</b> MTP 12 Fiber Cass. (Female)<br><b>A</b> MTP 12 Fiber Connector (F)<br><b>C</b> MTP 12 Fiber Connector (M)<br><b>Y</b> Elite MTP 12 Fiber Cass. (M)<br><b>Z</b> Elite MTP 12 Fiber Cass. (F) | <b>D</b> 72 | <b>A</b> .5<br><b>B</b> 1m<br><b>C</b> 1.5m<br><b>D</b> 2m<br><b>E</b> N/A | <b>S</b> Straight Thru<br><b>R</b> Reversed<br><b>P</b> Pair Reversal | <b>0</b><br><b>1</b><br><b>2</b> | <b>10'-500'</b> |
| Example Model Number: <b>RVCPMMDES020</b>                           |                                                                                                              |                    |                                                                                                                                                              |                                                                                                                                                                                                                                            |             |                                                                            |                                                                       |                                  |                 |
| RV                                                                  | <b>C</b>                                                                                                     | <b>P</b>           | <b>M</b>                                                                                                                                                     | <b>M</b>                                                                                                                                                                                                                                   | <b>D</b>    | <b>E</b>                                                                   | <b>S</b>                                                              | <b>0</b>                         | <b>20</b>       |

[\*Elite® is a registered trademark of US Conec.]

## RNG Series RapidNet Cassette and MTP™ Fiber Solutions

HellermannTyton offers pre-terminated MTP solutions to the RapidNet offering. This modular system utilizes our pre-loaded, RNG Series RapidNet cassette to breakout the MTP connector to LC or SC connector options. MTP trunk and fanout cables complete the plug-n-play solution up to 96 fiber connections in 1U.



### Product Features

- Scalable solution with modular components allowing the flexibility for data network design or upgrades
- Pre-terminated modular cassette offers labor savings with quick deployment
- All cassettes and trunks are factory terminated and 100% tested with test documentation included with products
- Round cable design eliminates preferential bend issues which results in increased density and greater manageability
- All trunks have crossover polarity using TIA-568.B.1-7 Method C
- Modular cassettes easily adapt to the RapidNetRail using zero rack space
- Flexible manufacturing to meet custom specified lengths or fiber counts
- High density ports identified as A and B

### Product Selection

|                                                                                                                                                     |                                                                                                                                                   |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| FIXED                                                                                                                                               | VARIABLE - SELECT THE FOLLOWING                                                                                                                   |             |
| PREFIX                                                                                                                                              | CABLE TYPE                                                                                                                                        | CABLE COUNT |
| RNGF                                                                                                                                                | A 50/125µm (OM3) Multimode<br>B 50/125µm (OM2) Multimode<br>C 62.5/125µm (OM1) Multimode<br>D 8.3/125µm Single Mode<br>H 50/125µm (OM4) Multimode | 12<br>24    |
| Example MTP-LC Part Number: RNGFA24<br>Example MTP-SC Part Number: RNGFA12SC                                                                        |                                                                                                                                                   |             |
| *For SC connection option add SC to the end of the cable count. Available in 12 fiber count only.<br>MTP is a registered trademark of US Conec Ltd. |                                                                                                                                                   |             |

RNG Series RapidNet Cassette and MTP™ Fiber Solutions *continued*

MTP to MTP Assembly



MTP to LC Assembly



MTP to SC Assembly

## Product Selection

| FIXED                             |             | VARIABLE - SELECT THE FOLLOWING |                     |                    |                   |                    |                 |            |             |            |
|-----------------------------------|-------------|---------------------------------|---------------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|------------|
| PREFIX                            | CABLE COUNT | FIBER TYPE                      | CABLE TYPE          | CABLE FLAME RATING | TERMINATION END 1 | TERMINATION END 2  | BREAKOUT LENGTH | POLARITY   | PULL KITS   | LENGTH     |
| F                                 | A 12        | A MM 62.5/125µm (OM1)           | C Data Center Cable | P Plenum           | A MTP 12 Fiber    | A MTP 12 Fiber     | A .5m           | S Straight | 0<br>1<br>2 | 10' - 999' |
|                                   | B 24        | B MM 50/125µm (OM2)             | D Distribution      | R Riser            |                   | E LC 2.0mm w/clips | B 1m            | Thru       |             |            |
|                                   | C 48        | C MM 50/125µm (OM3)             | R Ribbon            |                    |                   | G LC 900µm fanout  | C 1.5m          | R Reversed |             |            |
|                                   | D 72        | D MM 50/125µm (OM4)             |                     |                    |                   | O SC 2.0mm w/clips | D 2m            | P Pair     |             |            |
|                                   | E 96        | E Single Mode                   |                     |                    |                   | Q SC 900µm fanout  | E No Breakout   | Reversal*  |             |            |
|                                   | F 144       | F MM 50/125µm BIF (OM2)         |                     |                    |                   |                    |                 |            |             |            |
|                                   |             | G MM 50/125µm BIF (OM3)         |                     |                    |                   |                    |                 |            |             |            |
|                                   |             | H MM 50/125µm BIF (OM4)         |                     |                    |                   |                    |                 |            |             |            |
|                                   |             | J Single Mode BIF               |                     |                    |                   |                    |                 |            |             |            |
| Example Model Number: FAACPAER015 |             |                                 |                     |                    |                   |                    |                 |            |             |            |
| F                                 | A           | A                               | C                   | P                  | A                 | A                  | E               | R          | 0           | 15         |

\* HellermannTyton specifies pair flipped polarity cables to be used with the RNG Series MTP cassettes to maintain Method C polarity.

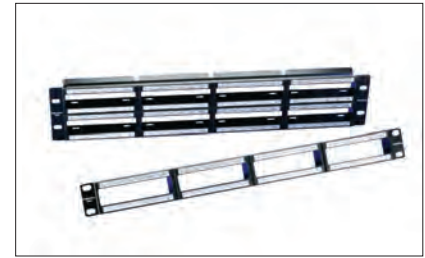
## RNG Series Modular Panels

All RNG RapidNet Cassettes are designed for a quick-and-easy insertion into the RNG Series Panel. The 1U Modular Panels fits standard 19" racks and accepts four cassettes.

| Product Selection |                                                 |                                                                                                    |
|-------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Part No.          | Description                                     | Port Count                                                                                         |
| RNGPP1U           | RNG Series RapidNet Modular Panel - 1U          | 24 UTP copper ports<br>48 LC fiber / 24 ports<br>96 LC fiber / 48 ports<br>48 SC fiber / 24 ports  |
| RNGPP1URS         | RNG Series RapidNet Modular Panel - 1U*         | 24 UTP copper ports<br>48 LC fiber / 24 ports<br>96 LC fiber / 48 ports<br>48 SC fiber / 24 ports  |
| RNGSPP1U          | RNG Series RapidNet Shielded Modular Panel - 1U | 24 F/UTP copper ports                                                                              |
| RNGPP2U           | RNG Series RapidNet Modular Panel - 2U          | 48 UTP copper ports<br>96 LC fiber / 48 ports<br>192 LC fiber / 96 ports<br>96 SC fiber / 48 ports |
| RNGPP2URS         | RNG Series RapidNet Modular Panel - 2U*         | 48 UTP copper ports<br>96 LC fiber / 48 ports<br>192 LC fiber / 96 ports<br>96 SC fiber / 48 ports |

\*With Rack-Snap inserts pre-installed

| Product Selection |                                                |
|-------------------|------------------------------------------------|
| Part No.          | Description                                    |
| RNGBLANK          | RNG Series RapidNet Modular Panel Blank Insert |
| RNSE1U            | RapidNet Secure Enclosure                      |
| RNRCMU            | RapidNet Rear Cable Manager                    |
| TFCM              | Front Cable Manager                            |



RNGPP1U, RNGPP2U



*Rack-Snap - snaps into standard square holes in most cabinets*

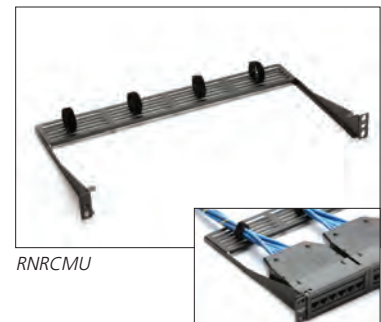
RNGPP1URS



RNGSPP1U



RNGBLANK



RNRCMU

## RapidNet Legacy Solutions - Category 6 Copper UTP

RapidNet Legacy Solutions offer the same performance as the RNG Series but utilize the first release of the cassette. The legacy cassette and system is for use in existing applications to achieve a consistent appearance.

RapidNet utilizes a bundled cable with six high-performance Category 6 UTP cables bound together with a Kevlar binder. Cut to the customer-specified length at HellermannTyton, each 6 port loom is supplied terminated at both ends to RapidNet cassettes. Each pre-labeled 6 port cassette snaps easily into the modular panel.

Removal of the cassette is just as easy; simply slide the latch forward and the cassette slides out of the rear of the panel.

### Product Features

- Positive PSACR over 350 MHz and a typical worst-case margin of 15 dB at 250 MHz
- Bundled cable is UL Verified to Category 6, ANSI/TIA-568-C specifications
- Permanent Link test reports included with all links
- 1U modular panel accepts 4 RapidNet cassettes for 24 ports
- 2U modular panel accepts 8 RapidNet cassettes for 48 ports
- Available in lengths from 10 ft - 295 ft
- Made in the USA



### Cassette to Cassette (panel to panel)

| Product Selection |                                                    |            |       |
|-------------------|----------------------------------------------------|------------|-------|
| Part No.          | Description                                        | Cable Type | Color |
| RNC6CMPXXX*       | RapidNet CAT6 CMP cassette to cassette 6 port loom | Plenum     | Blue  |
| RNC6CMPWHTXXX*    | RapidNet CAT6 CMP cassette to cassette 6 port loom | Plenum     | White |
| RNC6CMRXXX*       | RapidNet CAT6 CMR cassette to cassette 6 port loom | Riser      | White |
| RNC6CMRBLUXX*     | RapidNet CAT6 CMR cassette to cassette 6 port loom | Riser      | Blue  |

**\*Note:** To complete **Part No.**, replace the "X's" with the length required in feet, 10 to 295 feet.



### Cassette to Jack (panel to modular panel or faceplate)

| Product Selection |                                                |            |       |
|-------------------|------------------------------------------------|------------|-------|
| Part No.          | Description                                    | Cable Type | Color |
| RNC6JCMPTXXX*     | RapidNet CAT6 CMP cassette to jack 6 port loom | Plenum     | Blue  |
| RNC6JCMPTWHTXXX*  | RapidNet CAT6 CMP cassette to jack 6 port loom | Plenum     | White |
| RNC6JCMRXXX*      | RapidNet CAT6 CMR cassette to jack 6 port loom | Riser      | White |
| RNC6JCMRBLUXXX*   | RapidNet CAT6 CMR cassette to jack 6 port loom | Riser      | Blue  |

**\*Note:** To complete **Part No.**, replace the "X's" with the length required in feet, 10 to 295 feet.



## RapidNet Legacy Solutions - Category 6 Copper UTP



Cassette to Plug (panel to plug)

| Product Selection |                                            |            |       |
|-------------------|--------------------------------------------|------------|-------|
| Part No.          | Description                                | Cable Type | Color |
| RNC6PCMPXXX*      | RapidNet CAT6 cassette to plug 6 port loom | Plenum     | Blue  |
| RNC6PCMPWHTXXX*   | RapidNet CAT6 cassette to plug 6 port loom | Plenum     | White |
| RNC6PCMRXXX*      | RapidNet CAT6 cassette to plug 6 port loom | Riser      | White |
| RNC6PCMRBLUXXX*   | RapidNet CAT6 cassette to plug 6 port loom | Riser      | Blue  |

\*Note: To complete **Part No.**, replace the "X's" with the length required in feet, 10 to 295 feet.



Cassette to Open End (panel to open end)

| Product Selection |                                                |            |       |
|-------------------|------------------------------------------------|------------|-------|
| Part No.          | Description                                    | Cable Type | Color |
| RNC6OCMPXXX*      | RapidNet CAT6 cassette to open end 6 port loom | Plenum     | Blue  |
| RNC6OCMPWHTXXX*   | RapidNet CAT6 cassette to open end 6 port loom | Plenum     | White |
| RNC6OCMRXXX*      | RapidNet CAT6 cassette to open end 6 port loom | Riser      | White |
| RNC6OCMRBLUXXX*   | RapidNet CAT6 cassette to open end 6 port loom | Riser      | Blue  |

\*Note: To complete **Part No.**, replace the "X's" with the length required in feet, 10 to 295 feet.



Cassette to POD (panel to consolidation point)

| Product Selection |                                           |            |       |
|-------------------|-------------------------------------------|------------|-------|
| Part No.          | Description                               | Cable Type | Color |
| RNC6PDCMPXXX*     | RapidNet CAT6 cassette to pod 6 port loom | Plenum     | Blue  |
| RNC6PDCMPWHTXXX*  | RapidNet CAT6 cassette to pod 6 port loom | Plenum     | White |
| RNC6PDCMRXXX*     | RapidNet CAT6 cassette to pod 6 port loom | Riser      | White |
| RNC6PDCMRBLUXXX*  | RapidNet CAT6 cassette to pod 6 port loom | Riser      | Blue  |

\*Note: To complete **Part No.**, replace the "X's" with the length required in feet, 10 to 295 feet.



## RapidNet Legacy Fiber Solutions

RapidNet Legacy Solutions offer the same performance as the RNG Series but utilize the first release of the cassette. The legacy cassette and system is for use in existing applications to achieve a consistent appearance. RapidNet Fiber utilizes the LC connector with a 12 fiber single unit plenum (OFNP) cable, or utilizes the SC connector with a 6 fiber single unit plenum (OFNP) cable. Cut to the customer-specified length at HellermannTyton, each 12 fiber or 6 fiber link is supplied terminated at both ends to RapidNet cassettes. Each pre-labeled 12 fiber or 6 fiber cassette snaps easily into the modular panel. Removal of cassette is just as easy - simply slide the latch forward and the cassette slides out of the rear of the panel.

### Fiber Options

- 62.5/125  $\mu$ m (OM1 Fiber)
- 50/125  $\mu$ m (OM2 Fiber)
- 50/125  $\mu$ m laser optimized 10G (OM3 Fiber)
- Single Mode

### Product Features

- Exceeds ANSI/TIA-568-C and IEEE 802.3ae 10GbE standards
- Modular panel accepts 4 RapidNet cassettes, allowing up to 48 fibers in 1U
- Certification test reports included with all fiber links
- Cassette to connector option is provided with pulling eye pre-installed on connector end
- Standard part number is wired straight through (A-A). To order crossover (A-B), add "REV" to end of part number



**LC Connector  
Cassette to Cassette (panel to panel)**

| Product Selection |                                                     |            |        |
|-------------------|-----------------------------------------------------|------------|--------|
| Part No.          | Description                                         | Cable Type | Color  |
| RNF62PXXX*        | RapidNet 62.5/125 $\mu$ m (OM1) MM LC assembly      | 12 fiber   | Orange |
| RNF50PXXX*        | RapidNet 50/125 $\mu$ m (OM2) MM LC assembly        | 12 fiber   | Orange |
| RNF50P10GXXX*     | RapidNet 50/125 $\mu$ m (OM3) MM 10 Gig LC assembly | 12 fiber   | Aqua   |
| RNFSMPXXX*        | RapidNet 8.3/125 $\mu$ m SM LC assembly             | 12 fiber   | Yellow |

**\*Note:** To complete **Part No.**, replace the "X's" with the length required in feet.

**Additional Information:** Standard part number is wired straight through (A-A). To order crossover (A-B), add "REV" to end of part number. **Example:** RNFSMPXXXREV



**Cassette to Connector (panel to enclosure)**

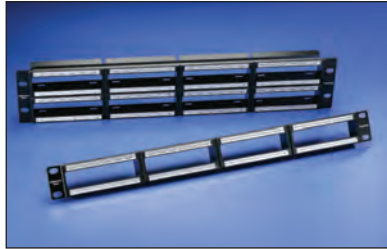
| Product Selection |                                          |            |
|-------------------|------------------------------------------|------------|
| Part No.          | Description                              | Cable Type |
| RNFAAAXXXLC*      | RapidNet LC cassette to 12 LC connectors | 12 fiber   |
| RNFAAAXXXSC*      | RapidNet SC cassette to 6 SC connectors  | 6 fiber    |

**\*Note:** To complete **Part No.**, replace the "A's" with the appropriate fiber type: 62P, 50P, 50P10G, or SMP. Replace the "X's" with the length required in feet.



## RapidNet Legacy Modular Panels

All RapidNet cassettes utilize our latch design to allow quick and easy installation into modular patch panels. The 1U RapidNet modular patch panel accepts four cassettes, and the 2U modular patch panel accepts eight cassettes. Panels fit standard 19" racks.



RNPP1U & RNPP2U



*Rack-Snap - snaps into standard square holes in most cabinets*

### Modular Patch Panel

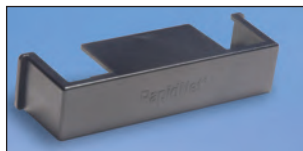
| Product Selection |                              |                                                                           |
|-------------------|------------------------------|---------------------------------------------------------------------------|
| Part No.          | Description                  | Port Count                                                                |
| RNPP1U            | RapidNet Modular Panel - 1U  | 24 UTP copper ports<br>48 LC fibers / 24 ports<br>24 SC fibers / 12 ports |
| RNPP1URS          | RapidNet Modular Panel - 1U* | 24 UTP copper ports<br>48 LC fibers / 24 ports<br>24 SC fibers / 12 ports |
| RNPP2U            | RapidNet Modular Panel - 2U  | 48 UTP copper ports<br>96 LC fibers / 48 ports<br>48 SC fibers / 24 ports |
| RNPP2URS          | RapidNet Modular Panel - 2U* | 48 UTP copper ports<br>96 LC fibers / 48 ports<br>48 SC fibers / 24 ports |



\* With Rack-Snap inserts pre-installed

## RapidNet Legacy Modular Panels

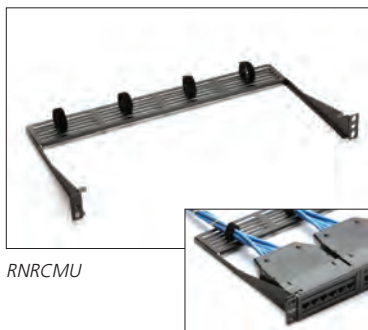
## Modular Patch Panel Accessories



RNBLANK

## Product Selection

| Part No. | Description                         |
|----------|-------------------------------------|
| RNBLANK  | RapidNet Modular Panel Blank Insert |



RNRCMU

## Product Selection

| Part No. | Description                 |
|----------|-----------------------------|
| RNRCMU   | RapidNet Rear Cable Manager |



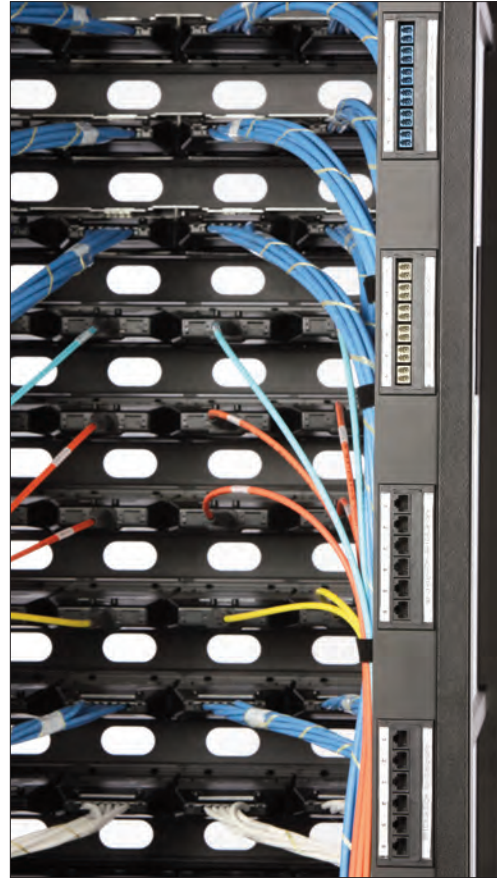
RNSE1U

## Product Selection

| Part No. | Description               |
|----------|---------------------------|
| RNSE1U   | RapidNet Secure Enclosure |

## RapidNet Auxiliary Rails

RapidNet is a high performance product line for data centers and storage area network applications. HellermannTyton offers a simplified solution that maximizes data center real estate. This is achieved by installing RapidNet within the cabinet's vertical rails using the RapidNet Rail. The Auxiliary Rail is designed to mount in the rear of most manufacturer server cabinets and is best suited for server cabinets 42" deep or greater. However due to the versatile mounting design and size options of the rail it may be installed in shallower cabinets or even horizontally above the cabinet.



### Product Features

- Uses zero rack mount space by incorporating RapidNet within the cabinet space
- Maximizes data center real estate in existing cabinets
- Auxiliary Rail maintains 19" rackable surface for equipment mounting on existing cabinet rails
- Ports where you need them - aligns connectivity with your servers
- Allows for cassette moves, adds and changes without interrupting rack routed equipment in a fully populated cabinet
- Promotes proper cable management
- Available in 4 different sizes for both RN and RNG series cassettes - 1 Cassette, 2 Cassettes, 5 Cassettes, and 10 Cassettes

## RNG Series Auxiliary Rail

| Product Selection |                                                 |       |
|-------------------|-------------------------------------------------|-------|
| Part No.          | Description                                     | Color |
| RNGAR01           | Auxiliary Rail, Accepts 1 RNG Series Cassette   | Black |
| RNGAR02           | Auxiliary Rail, Accepts 2 RNG Series Cassettes  | Black |
| RNGAR05           | Auxiliary Rail, Accepts 5 RNG Series Cassettes  | Black |
| RNGAR10           | Auxiliary Rail, Accepts 10 RNG Series Cassettes | Black |
| RNGARINSERT*      | Auxiliary Rail Insert for RNG Series Cassettes  | Black |

Auxiliary Rails ship without Shroud Assembly to facilitate cabinet mounting. Order appropriate number of RNGARINSERT to complete Auxiliary Rail to accept RapidNet cassettes. Auxiliary Rail is designed to support mounting of RapidNet cassettes only. No other equipment, active or otherwise should be mounted to the Auxiliary Rails.

\*Includes 1 RapidNet Shroud, 2 Clear ID Windows, Labels 1-60, 10 Blank Labels.



## RN Legacy Solutions Auxiliary Rail

| Product Selection |                                                |       |
|-------------------|------------------------------------------------|-------|
| Part No.          | Description                                    | Color |
| RNAR01            | Auxiliary Rail, Accepts 1 RN Legacy Cassette   | Black |
| RNAR02            | Auxiliary Rail, Accepts 2 RN Legacy Cassettes  | Black |
| RNAR05            | Auxiliary Rail, Accepts 5 RN Legacy Cassettes  | Black |
| RNAR10            | Auxiliary Rail, Accepts 10 RN Legacy Cassettes | Black |
| RNARINSERT*       | Auxiliary Rail Insert for RN Legacy Cassettes  | Black |

Auxiliary Rails ship without Shroud Assembly to facilitate cabinet mounting. Order appropriate number of RNARINSERT to complete Auxiliary Rail to accept RapidNet cassettes. Auxiliary Rail is designed to support mounting of RapidNet cassettes only. No other equipment, active or otherwise should be mounted to the Auxiliary Rails.

\*Includes 1 RapidNet Shroud, 2 Clear ID Windows, Labels 1-60, 10 Blank Labels.

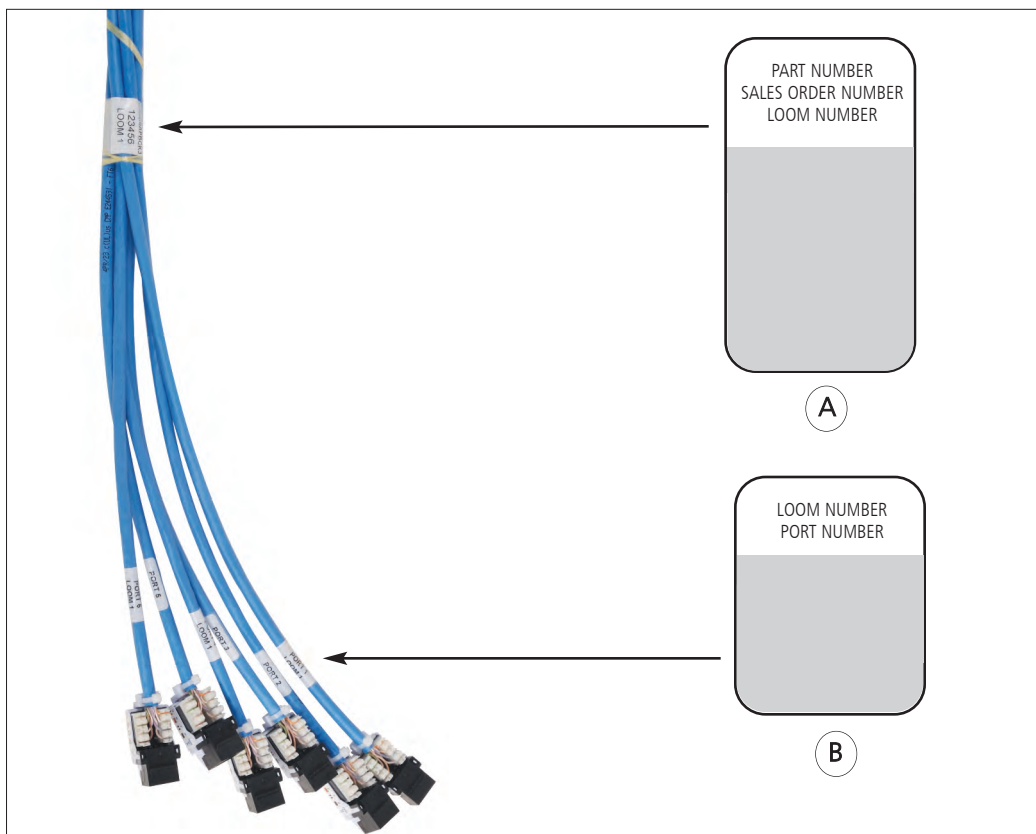




## RapidNet Modular Panel Identification Solutions

HellermannTyton provides high quality labels to mark the loom and the individual cables. Printable in both thermal transfer and laser formats, the labels come in different lengths to ensure the printed text is overlaminated and protected when placed around the entire bundle of wires or if marking each individual wire.

| Product Selection                                     |                        |                   |              |
|-------------------------------------------------------|------------------------|-------------------|--------------|
| Part No.                                              | Description            | Dimensions        | Pkg. Qty.    |
| <b>A - Labels for Loom Identification</b>             |                        |                   |              |
| <b>TAG3T3-100B</b>                                    | Thermal Transfer Label | 1" x 1" x 3.75"   | 3,000 / Roll |
| <b>TAG50L-105</b>                                     | Laser Label            | 1" x 1" x 3.16"   | 1,000 / Pack |
| <b>B - Labels for Individual Cable Identification</b> |                        |                   |              |
| <b>TAG22T3-100B</b>                                   | Thermal Transfer Label | 1" x .5" x 1.437" | 5,000 / Roll |
| <b>TAG63L-105</b>                                     | Laser Label            | 1" x .5" x 1.437" | 2,500 / Pack |



# WORKSTATION PRODUCTS

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

|                     |       |
|---------------------|-------|
| Jacks               | 36-45 |
| Faceplates          | 46-55 |
| Surface Mount Boxes | 55    |
| Multimedia Modules  | 56-62 |



## Category 6A Modular Jack

When using HellermannTyton's modular jacks, patch panels and patch cords with approved horizontal cables, the Deca<sup>10</sup> Category 6A, GigaBand® Category 6, and MegaBand® Category 5e systems far exceed the TIA requirements for structured cabling systems. HellermannTyton's modular jacks are an integral part of the Category 6A, Category 6 and Category 5e systems, offering quality, versatility and reliability.



### Category 6A Modular Jacks

- Offered in a fully-shielded modular jack
- RJ45 terminated to eight individual IDC connections
- Unique termination process and strain relief design secures cable terminations
- Innovative performance technology – ten internal contacts (two extra to cancel out crosstalk) and eight external contacts in standard configuration to accept industry standard patch cords
- Staggered contacts provide superior performance
- Configured with both 568A and 568B wiring schemes
- High-speed termination tool used for easy on-site installation
- Shielded jacks and shielded modular panels create a fully-shielded solution

## Category 6A Shielded Modular Jack

HellermannTyton's Deca<sup>10</sup> Shielded Category 6A jack is designed to support your 10G installation needs. Its design includes HellermannTyton's innovative 10-pin technology which helps to guarantee superior performance while exceeding the TIA Category 6A standard. All eight terminations are made at once using our hand termination tool (HT6ASCT) which helps ensure quality and consistency of the connections. Once terminated, jacks are compatible with shielded modular patch panels (PP24MOD6AS and PP245MOD6AS) and modular faceplates (FPM-X and inserts).



### Product Selection

| Article No. | Part No.           | Type      | Description                                 | Color       | Pkg. Qty. | Carton Qty. |
|-------------|--------------------|-----------|---------------------------------------------|-------------|-----------|-------------|
| 852-40000   | <b>RJ45FC6AS</b>   | RJ45FC6AS | Category 6A Shielded Modular Jack           | Mill Finish | 1         | 50          |
| 852-40002   | <b>RJ45FC6AS12</b> | RJ45FC6AS | Category 6A Shielded Modular Jack Bulk Pack | Mill Finish | 12        | 1           |

Use **Part No.** for ordering and **Type** for specification purposes.



## Category 6A Jack Termination Tool

This single-action hand tool cuts and terminates all eight wires at once. Required for proper termination of the jack. This tool speeds up the termination process.



### Product Selection

| Article No. | Part No.       | Type    | Description                                | Pkg. Qty. |
|-------------|----------------|---------|--------------------------------------------|-----------|
| 854-40195   | <b>HT6ASCT</b> | HT6ASCT | Category 6A Shielded Jack Termination Tool | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## Modular Jacks

When using HellermannTyton's modular jacks, patch panels and patch cords with approved horizontal cables, the GigaBand® Category 6 and MegaBand® Category 5e systems far exceed the TIA requirements for structured cabling systems.

HellermannTyton's modular jacks are an integral part of the Category 6 and Category 5e systems, offering quality, versatility and reliability.

### Quality

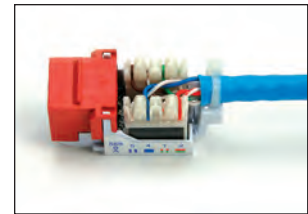
- Standard keystone style interface
- RJ45 terminated to a 110 IDC PCB connector
- Jack life up to 1,000 insertions
- Contact set constructed of phosphor bronze material with 50 micro-inch gold plating
- Components manufactured from UL94V-0 thermoplastic material
- Unique strain relief design secures cable terminations
- Innovative crosstalk cancellation technology – ten internal contacts (two extra to cancel out crosstalk) and eight external contacts in standard configuration to accept industry standard patch cords
- Staggered contacts provide superior performance

### Versatility

- Configured with both TIA 568A and 568B wiring schemes
- IDC accepts 22-26 AWG solid twisted-pair cable
- Available in 12 colors to match any faceplate or color-coding identification
- Palm tool available for easy on-site installation

### Reliability

- RJ45 jacks are factory tested 200 times with an RJ11 plug (4P or 6P) to ensure there is no damage to the contacts
- Each jack is individually tested three times to ensure quality performance
- IDC is factory tested to 50 terminations



*Cable strain relief*



*Patented crosstalk cancellation technology*



W (White) FW (Office White) I (Ivory) GRY (Gray) BLK (Black) YEL (Yellow) ORN (Orange) BRN (Brown) BLU (Blue) GRN (Green) VIO (Violet) RED (Red)

## Category 6 GigaBand® Flush Jacks

HellermannTyton's GigaBand flush Category 6 modular jack is designed to "future proof" installations. Its patented design uses innovative crosstalk-cancellation technology. The performance of the GigaBand system provides significant margin over TIA Category 6 (ANSI/TIA-568-C.1) and ISO Class E (ISO/IEC-11801, 2nd edition) requirements. The GigaBand system will easily support applications such as Gigabit Ethernet. **ETL tested and approved for Category 6 Component Compliance.**

### Product Selection

| Article No. | Part No.           | Type    | Description                          | Color        | Pkg. Qty. | Carton Qty. |
|-------------|--------------------|---------|--------------------------------------|--------------|-----------|-------------|
| 852-25064   | <b>RJ45FC6-BLK</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Black        | 1         | 50          |
| 852-25065   | <b>RJ45FC6-BLU</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Blue         | 1         | 50          |
| 852-25069   | <b>RJ45FC6-FW</b>  | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Office White | 1         | 50          |
| 852-25070   | <b>RJ45FC6-GRN</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Green        | 1         | 50          |
| 852-25071   | <b>RJ45FC6-GRY</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Gray         | 1         | 50          |
| 852-25072   | <b>RJ45FC6-I</b>   | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Ivory        | 1         | 50          |
| 852-25073   | <b>RJ45FC6-ORN</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Orange       | 1         | 50          |
| 852-25074   | <b>RJ45FC6-RED</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Red          | 1         | 50          |
| 852-25080   | <b>RJ45FC6-VIO</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Violet       | 1         | 50          |
| 852-25081   | <b>RJ45FC6-W</b>   | RJ45FC6 | Category 6 Flush Mount Keystone Jack | White        | 1         | 50          |
| 852-25082   | <b>RJ45FC6-YEL</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Yellow       | 1         | 50          |
| 852-25067   | <b>RJ45FC6-BRN</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack | Brown        | 1         | 50          |

Use **Part No.** for ordering and **Type** for specification purposes. 1 PIPT palm tool included in each carton of 50. For bulk packaging, order Bulk Modular Jacks on following page. Refer to appendix for installation instructions and wiring diagram for modular jacks.



## Category 6 Bulk Modular Jacks

HellermannTyton offers selected flush mount keystone jacks in bulk packs of 50. The bulk pack includes convenient partitions for each jack and includes the palm installation tool and strain relief ties.



| Product Selection |                     |         |                                                |              |           |             |
|-------------------|---------------------|---------|------------------------------------------------|--------------|-----------|-------------|
| Article No.       | Part No.            | Type    | Description                                    | Color        | Pkg. Qty. | Carton Qty. |
| 852-25062         | <b>RJ45FC6B-BLU</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack Bulk Pack | Blue         | 50        | 1           |
| 852-25085         | <b>RJ45FC6B-FW</b>  | RJ45FC6 | Category 6 Flush Mount Keystone Jack Bulk Pack | Office White | 50        | 1           |
| 852-25063         | <b>RJ45FC6B-I</b>   | RJ45FC6 | Category 6 Flush Mount Keystone Jack Bulk Pack | Ivory        | 50        | 1           |
| 852-25066         | <b>RJ45FC6B-ORN</b> | RJ45FC6 | Category 6 Flush Mount Keystone Jack Bulk Pack | Orange       | 50        | 1           |
| 852-25068         | <b>RJ45FC6B-W</b>   | RJ45FC6 | Category 6 Flush Mount Keystone Jack Bulk Pack | White        | 50        | 1           |

Use **Part No.** for ordering and **Type** for specification purposes. Refer to appendix for installation instructions and wiring diagram for modular jacks.



## Category 6 Shielded Modular Jack

HellermannTyton's shielded Category 6 modular jack is designed to support your shielded installation needs. Its design includes HellermannTyton's innovative 10-pin technology which helps to guarantee superior performance while exceeding the TIA Category 6 standard. All eight terminations are made at once using our hand termination tool (HT6ASCT), which helps ensure quality and consistency of the connections. Once terminated, jacks are compatible with shielded modular patch panels (PP24MOD6AS and PP24SMOD6AS) and modular faceplates (FPM-X and inserts). See pages 46 and 60.



| Product Selection |                 |          |                          |             |           |
|-------------------|-----------------|----------|--------------------------|-------------|-----------|
| Article No.       | Part No.        | Type     | Description              | Color       | Pkg. Qty. |
| 852-25086         | <b>RJ45FC6S</b> | RJ45FC6S | Category 6 Shielded Jack | Mill Finish | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## Category 5e MegaBand® Modular Jacks

The MegaBand flush mount Category 5e modular jack offers exceptional performance that will support Gigabit Ethernet and 622 Mbps ATM applications with complete reliability. This Category 5e jack meets and exceeds the requirements of ANSI/TIA-568-C.

### Product Selection

| Article No. | Part No.            | Type     | Description                           | Color        | Pkg. Qty. | Carton Qty. |
|-------------|---------------------|----------|---------------------------------------|--------------|-----------|-------------|
| 852-25036   | <b>RJ45FC5E-BLK</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Black        | 1         | 50          |
| 852-25037   | <b>RJ45FC5E-BLU</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Blue         | 1         | 50          |
| 852-25040   | <b>RJ45FC5E-BRN</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Brown        | 1         | 50          |
| 852-25044   | <b>RJ45FC5E-FW</b>  | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Office White | 1         | 50          |
| 852-25045   | <b>RJ45FC5E-GRN</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Green        | 1         | 50          |
| 852-25046   | <b>RJ45FC5E-GRY</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Gray         | 1         | 50          |
| 852-25047   | <b>RJ45FC5E-I</b>   | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Ivory        | 1         | 50          |
| 852-25048   | <b>RJ45FC5E-ORN</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Orange       | 1         | 50          |
| 852-25049   | <b>RJ45FC5E-RED</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Red          | 1         | 50          |
| 852-25059   | <b>RJ45FC5E-VIO</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Violet       | 1         | 50          |
| 852-25060   | <b>RJ45FC5E-W</b>   | RJ45FC5E | Category 5e Flush Mount Keystone Jack | White        | 1         | 50          |
| 852-25061   | <b>RJ45FC5E-YEL</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack | Yellow       | 1         | 50          |

Use **Part No.** for ordering and **Type** for specification purposes. 1 PIPT palm tool included in each carton of 50. For bulk packaging, order Bulk Modular Jacks on following page. Refer to appendix for installation instructions and wiring diagram for modular jacks.



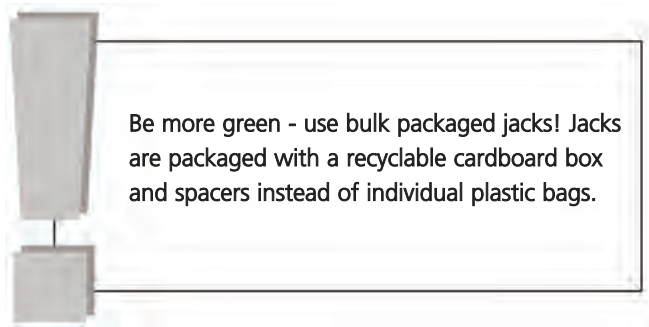
## Category 5e Bulk Modular Jacks

HellermannTyton offers selected flush mount keystone jacks in bulk packs of 50. The bulk pack includes convenient partitions for each jack and includes the palm installation tool and strain relief ties.



| Product Selection |                      |          |                                                 |              |           |             |  |
|-------------------|----------------------|----------|-------------------------------------------------|--------------|-----------|-------------|--|
| Article No.       | Part No.             | Type     | Description                                     | Color        | Pkg. Qty. | Carton Qty. |  |
| 852-25030         | <b>RJ45FC5EB-BLU</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack Bulk Pack | Blue         | 50        | 1           |  |
| 852-25038         | <b>RJ45FC5EB-ORN</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack Bulk Pack | Orange       | 50        | 1           |  |
| 852-25039         | <b>RJ45FC5EB-RED</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack Bulk Pack | Red          | 50        | 1           |  |
| 852-25042         | <b>RJ45FC5EB-W</b>   | RJ45FC5E | Category 5e Flush Mount Keystone Jack Bulk Pack | White        | 50        | 1           |  |
| 852-25032         | <b>RJ45FC5EB-FW</b>  | RJ45FC5E | Category 5e Flush Mount Keystone Jack Bulk Pack | Office White | 50        | 1           |  |
| 852-25031         | <b>RJ45FC5EB-I</b>   | RJ45FC5E | Category 5e Flush Mount Keystone Jack Bulk Pack | Ivory        | 50        | 1           |  |
| 852-25033         | <b>RJ45FC5EB-GRN</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack Bulk Pack | Green        | 50        | 1           |  |
| 852-25034         | <b>RJ45FC5EB-GRY</b> | RJ45FC5E | Category 5e Flush Mount Keystone Jack Bulk Pack | Gray         | 50        | 1           |  |

Use **Part No.** for ordering and **Type** for specification purposes. Refer to appendix for installation instructions and wiring diagram for modular jacks.



## Category 3 Modular Jacks

Offered in three styles, HellermannTyton's Category 3 jacks are designed to give the maximum performance in Category 3 applications. Available in an eight position, eight conductor 568A/B connector or USOC connector and a six position, six conductor USOC connector, they ensure the most reliable connection for voice and data applications. The six position jack can be wired as an RJ11C (1 pair), RJ14C (2 pair), or RJ25C (3 pair) configuration.

| Product Selection           |                     |         |                                                         |              |           |             |
|-----------------------------|---------------------|---------|---------------------------------------------------------|--------------|-----------|-------------|
| Article No.                 | Part No.            | Type    | Description                                             | Color        | Pkg. Qty. | Carton Qty. |
| Category 3 - 6P6C RJ11 USOC |                     |         |                                                         |              |           |             |
| 852-25003                   | <b>RJ11FC3-BLK</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Black        | 1         | 50          |
| 852-25004                   | <b>RJ11FC3-BLU</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Blue         | 1         | 50          |
| 852-25005                   | <b>RJ11FC3-BRN</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Brown        | 1         | 50          |
| 852-25006                   | <b>RJ11FC3-FW</b>   | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Office White | 1         | 50          |
| 852-25007                   | <b>RJ11FC3-GRN</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Green        | 1         | 50          |
| 852-25008                   | <b>RJ11FC3-GRY</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Gray         | 1         | 50          |
| 852-25009                   | <b>RJ11FC3-I</b>    | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Ivory        | 1         | 50          |
| 852-25011                   | <b>RJ11FC3-RED</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Red          | 1         | 50          |
| 852-25012                   | <b>RJ11FC3-VIO</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Violet       | 1         | 50          |
| 852-25013                   | <b>RJ11FC3-W</b>    | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | White        | 1         | 50          |
| 852-25014                   | <b>RJ11FC3-YEL</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Yellow       | 1         | 50          |
| 852-25010                   | <b>RJ11FC3-ORN</b>  | RJ11FC3 | Category 3 - 6P6C RJ11 USOC Flush Mount Keystone Jack   | Orange       | 1         | 50          |
| Category 3 - 8P8C RJ45 USOC |                     |         |                                                         |              |           |             |
| 852-25087                   | <b>RJ45FC3U-BLK</b> | RJ45FC3 | Category 3 - 8P8C RJ45 USOC Flush Mount Keystone Jack   | Black        | 1         | 50          |
| 852-25088                   | <b>RJ45FC3U-FW</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 USOC Flush Mount Keystone Jack   | Office White | 1         | 50          |
| 852-25089                   | <b>RJ45FC3U-I</b>   | RJ45FC3 | Category 3 - 8P8C RJ45 USOC Flush Mount Keystone Jack   | Ivory        | 1         | 50          |
| 852-25090                   | <b>RJ45FC3U-W</b>   | RJ45FC3 | Category 3 - 8P8C RJ45 USOC Flush Mount Keystone Jack   | White        | 1         | 50          |
| Category 3 - 8P8C RJ45      |                     |         |                                                         |              |           |             |
| 852-25016                   | <b>RJ45FC3-BLK</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Black        | 1         | 50          |
| 852-25020                   | <b>RJ45FC3-FW</b>   | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Office White | 1         | 50          |
| 852-25022                   | <b>RJ45FC3-GRY</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Gray         | 1         | 50          |
| 852-25023                   | <b>RJ45FC3-I</b>    | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Ivory        | 1         | 50          |
| 852-25024                   | <b>RJ45FC3-ORN</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Orange       | 1         | 50          |
| 852-25025                   | <b>RJ45FC3-RED</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Red          | 1         | 50          |
| 852-25026                   | <b>RJ45FC3-VIO</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Violet       | 1         | 50          |
| 852-25027                   | <b>RJ45FC3-W</b>    | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | White        | 1         | 50          |
| 852-25028                   | <b>RJ45FC3-YEL</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Yellow       | 1         | 50          |
| 852-25018                   | <b>RJ45FC3-BRN</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Brown        | 1         | 50          |
| 852-25017                   | <b>RJ45FC3-BLU</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Blue         | 1         | 50          |
| 852-25021                   | <b>RJ45FC3-GRN</b>  | RJ45FC3 | Category 3 - 8P8C RJ45 568A/B Flush Mount Keystone Jack | Green        | 1         | 50          |

Use **Part No.** for ordering and **Type** for specification purposes. Reference appendix for installation instructions and wiring diagram for modular jacks.



W (White) FW (Office White) I (Ivory) GRY (Gray) BLK (Black) YEL (Yellow) ORN (Orange) BRN (Brown) BLU (Blue) GRN (Green) VIO (Violet) RED (Red)

## Category 3 Bulk Modular Jacks

HellermannTyton offers selected flush mount keystone jacks in bulk packs of 50. The bulk pack includes convenient partitions for each jack and includes the palm installation tool and strain relief ties.



### Product Selection

| Article No. | Part No.   | Type    | Description                                      | Color | Pkg. Qty. | Carton Qty. |
|-------------|------------|---------|--------------------------------------------------|-------|-----------|-------------|
| 852-25015   | RJ45FC3B-I | RJ45FC3 | Category 3 - 8P8C RJ45 Flush Mount Keystone Jack | Ivory | 50        | 1           |

Use **Part No.** for ordering and **Type** for specification purposes. Refer to appendix for installation instructions and wiring diagram for modular jacks.



## Punch Down Installation Palm Tool

To expedite jack installation, HellermannTyton provides a useful palm tool that fits ergonomically in the hand to ease the punch down process of modular jacks and individual ports in the AlphaSnap patch panels. One tool is also included in each box of 50 modular jacks.



### Product Selection

| Article No. | Part No. | Type | Description                       |
|-------------|----------|------|-----------------------------------|
| 854-40073   | PIPT     | PIPT | Punch Down Installation Palm Tool |

Use **Part No.** for ordering and **Type** for specification purposes.

## Shuttered Jacks - Single Outlet

HellermannTyton's shuttered jacks offer exceptional performance. Three configurations are available: preassembled with Category 6 jacks, preassembled with Category 5e jacks, or a blank insert that accepts all HellermannTyton keystone jack configurations.

Two single outlets fit into the single gang shuttered faceplate. Its patented slide-label system creates a clean appearance. The shutter keeps dirt and dust out when not in use and prevents accidental insertion of an object. Shuttered jacks must be used with HellermannTyton's shuttered jack faceplates. **Jacks are ETL tested and approved for Category 6 Component Compliance.**

| Product Selection |                    |          |                                          |           |
|-------------------|--------------------|----------|------------------------------------------|-----------|
| Article No.       | Part No.           | Type     | Description                              | Pkg. Qty. |
| 854-40091         | <b>RJ45SKI-FW</b>  | RJ45SKI  | RJ45 Shuttered Keystone Insert           | 1         |
| 852-05471         | <b>RJ45SC6-FW</b>  | RJ45SC6  | Category 6 Single Outlet Shuttered Jack  | 1         |
| 852-05470         | <b>RJ45SC5E-FW</b> | RJ45SC5E | Category 5e Single Outlet Shuttered Jack | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. Only available in office white.  
**Must be used with FPSHUT-FW or FPHSHUT-FW faceplates.**



## Shuttered Jacks - Triple Outlet

HellermannTyton's shuttered jacks offer exceptional Category 6 or Category 5e performance. Incorporating three individual modules, one triple outlet fits into the single gang shuttered faceplate. Its patented slide-label system creates a clean appearance. The shutter keeps dirt and dust out when not in use and prevents accidental insertion of an object. Shuttered jacks must be used with HellermannTyton's shuttered jack faceplates. Triple outlet modules are also interchangeable with HellermannTyton's AlphaSnap patch panel modules. **ETL tested and approved for Category 6 Component Compliance.**

| Product Selection |                     |           |                                          |           |
|-------------------|---------------------|-----------|------------------------------------------|-----------|
| Article No.       | Part No.            | Type      | Description                              | Pkg. Qty. |
| 852-05469         | <b>RJ45S3C6-FW</b>  | RJ45S3C6  | Category 6 Triple Outlet Shuttered Jack  | 1         |
| 852-05468         | <b>RJ45S3C5E-FW</b> | RJ45S3C5E | Category 5e Triple Outlet Shuttered Jack | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. Only available in office white.  
**Must be used with FPSHUT-FW or FPHSHUT-FW faceplates.**



## Inserts for Shuttered Faceplates

HellermannTyton's angled insert snaps into the shuttered faceplate to provide for a quick-and-easy installation and allows two single outlets or one triple outlet in a single gang faceplate. This optimizes the space available and also relieves cable stress by providing a smooth slope for the cable. Two sizes of blank inserts are available. When using a single outlet in the faceplate, choose either 1 x 1U or 2 x 0.5U inserts.



| Product Selection |                    |          |                   |           |
|-------------------|--------------------|----------|-------------------|-----------|
| Article No.       | Part No.           | Type     | Description       | Pkg. Qty. |
| 854-35343         | <b>FP5BLANK-FW</b> | FP5BLANK | 0.5U Blank Insert | 1         |
| 854-35342         | <b>FP1BLANK-FW</b> | FP1BLANK | 1U Blank Insert   | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.  
**Must be used with FPSHUT-FW or FPHSHUT-FW faceplates.**

## Category 5e Inter-Lock Outlet

HellermannTyton's Category 5e Inter-Lock outlet provides a quick-and-effective method of controlling network access. Used with HellermannTyton single gang shuttered faceplates, the Inter-Lock outlet is easy to use. A simple turn of the key is all it takes to enable or disable LAN access by cutting off electrical connection to the orange wire, pin #2. Supplied with two keys per outlet, the key cannot be removed while in the "on" position. All locks are keyed the same.



| Product Selection |                    |          |                               |           |
|-------------------|--------------------|----------|-------------------------------|-----------|
| Article No.       | Part No.           | Type     | Description                   | Pkg. Qty. |
| 852-05467         | <b>RJ45LC5E-FW</b> | RJ45LC5E | Category 5e Inter-Lock Outlet | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. Only available in office white.  
**Must be used with FPSHUT-FW or FPHSHUT-FW faceplates.**

## Horizontal and Vertical Shuttered Jack Faceplates

HellermannTyton's shuttered jack faceplates are available in both horizontal and vertical styles. Designed to be used with shuttered jacks, HellermannTyton's shuttered jack faceplates can fit up to two single outlets or one triple outlet. If a single faceplate is used, options for a 1U or .5U blank insert are available. HellermannTyton's shuttered jack faceplates include an adhesive sticker for easy identification. Horizontal shuttered jack faceplates are designed to be used with HellermannTyton's surface raceway systems.

| Product Selection |                   |         |                                     |           |
|-------------------|-------------------|---------|-------------------------------------|-----------|
| Article No.       | Part No.          | Type    | Description                         | Pkg. Qty. |
| 854-35344         | <b>FPHSHUT-FW</b> | FPHSHUT | Horizontal Shuttered Jack Faceplate | 1         |
| 854-35381         | <b>FPSHUT-FW</b>  | FPSHUT  | Vertical Shuttered Jack Faceplate   | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. Only available in office white.



## Faceplates

HellermannTyton faceplates are highly versatile as they accept any HellermannTyton modular keystone jack or insert. A wide range of styles are offered to accommodate the many possible voice and data combinations. Available in up to six colors, as well as stainless steel, HellermannTyton faceplates are designed to be aesthetically pleasing in current and future workstation environments.

### Single Gang Standard Flush Mount Faceplates

HellermannTyton standard faceplates are easily configured, allowing for additions, deletions or changes to connections. This smooth finish, flush mount faceplate enables quick and easy installations. Offered in single gang and dual gang styles, HellermannTyton standard faceplates are offered in 1, 2, 3, 4, 6 and 12 port configurations.

HellermannTyton's line of adhesive labels can be used for identification. All faceplates come with color-matched mounting screws.

| Product Selection |              |          |                                   |              |           |             |
|-------------------|--------------|----------|-----------------------------------|--------------|-----------|-------------|
| Article No.       | Part No.     | Type     | Description                       | Color        | Pkg. Qty. | Carton Qty. |
| 854-39392         | FPBLANK-FW   | FPBLANK  | Blank - Standard Single Gang      | Office White | 1         | 10          |
| 854-39390         | FPBLANK-W    | FPBLANK  | Blank - Standard Single Gang      | White        | 1         | 10          |
| 854-39391         | FPBLANK-I    | FPBLANK  | Blank - Standard Single Gang      | Ivory        | 1         | 10          |
| 854-39307         | FPSINGLE-FW  | FPSINGLE | One Port - Standard Single Gang   | Office White | 1         | 10          |
| 854-39311         | FPSINGLE-W   | FPSINGLE | One Port - Standard Single Gang   | White        | 1         | 10          |
| 854-39309         | FPSINGLE-I   | FPSINGLE | One Port - Standard Single Gang   | Ivory        | 1         | 10          |
| 854-39306         | FPSINGLE-BK  | FPSINGLE | One Port - Standard Single Gang   | Black        | 1         | 10          |
| 854-39305         | FPSINGLE-B   | FPSINGLE | One Port - Standard Single Gang   | Brown        | 1         | 10          |
| 854-39308         | FPSINGLE-GRY | FPSINGLE | One Port - Standard Single Gang   | Gray         | 1         | 10          |
| 854-39235         | FPDUAL-FW    | FPDUAL   | Two Port - Standard Single Gang   | Office White | 1         | 10          |
| 854-39239         | FPDUAL-W     | FPDUAL   | Two Port - Standard Single Gang   | White        | 1         | 10          |
| 854-39237         | FPDUAL-I     | FPDUAL   | Two Port - Standard Single Gang   | Ivory        | 1         | 10          |
| 854-39234         | FPDUAL-BK    | FPDUAL   | Two Port - Standard Single Gang   | Black        | 1         | 10          |
| 854-39233         | FPDUAL-B     | FPDUAL   | Two Port - Standard Single Gang   | Brown        | 1         | 10          |
| 854-39236         | FPDUAL-GRY   | FPDUAL   | Two Port - Standard Single Gang   | Gray         | 1         | 10          |
| 854-39322         | FPTRIPLE-FW  | FPTRIPLE | Three Port - Standard Single Gang | Office White | 1         | 10          |
| 854-39326         | FPTRIPLE-W   | FPTRIPLE | Three Port - Standard Single Gang | White        | 1         | 10          |
| 854-39324         | FPTRIPLE-I   | FPTRIPLE | Three Port - Standard Single Gang | Ivory        | 1         | 10          |
| 854-39321         | FPTRIPLE-BK  | FPTRIPLE | Three Port - Standard Single Gang | Black        | 1         | 10          |
| 854-39320         | FPTRIPLE-B   | FPTRIPLE | Three Port - Standard Single Gang | Brown        | 1         | 10          |
| 854-39323         | FPTRIPLE-GRY | FPTRIPLE | Three Port - Standard Single Gang | Gray         | 1         | 10          |
| 854-39285         | FPQUAD-FW    | FPQUAD   | Four Port - Standard Single Gang  | Office White | 1         | 10          |
| 854-39289         | FPQUAD-W     | FPQUAD   | Four Port - Standard Single Gang  | White        | 1         | 10          |
| 854-39287         | FPQUAD-I     | FPQUAD   | Four Port - Standard Single Gang  | Ivory        | 1         | 10          |
| 854-39284         | FPQUAD-BK    | FPQUAD   | Four Port - Standard Single Gang  | Black        | 1         | 10          |
| 854-39283         | FPQUAD-B     | FPQUAD   | Four Port - Standard Single Gang  | Brown        | 1         | 10          |
| 854-39286         | FPQUAD-GRY   | FPQUAD   | Four Port - Standard Single Gang  | Gray         | 1         | 10          |
| 854-39315         | FPSIX-FW     | FPSIX    | Six Port - Standard Single Gang   | Office White | 1         | 10          |
| 854-39319         | FPSIX-W      | FPSIX    | Six Port - Standard Single Gang   | White        | 1         | 10          |
| 854-39317         | FPSIX-I      | FPSIX    | Six Port - Standard Single Gang   | Ivory        | 1         | 10          |
| 854-39314         | FPSIX-BK     | FPSIX    | Six Port - Standard Single Gang   | Black        | 1         | 10          |
| 854-39313         | FPSIX-B      | FPSIX    | Six Port - Standard Single Gang   | Brown        | 1         | 10          |
| 854-39316         | FPSIX-GRY    | FPSIX    | Six Port - Standard Single Gang   | Gray         | 1         | 10          |

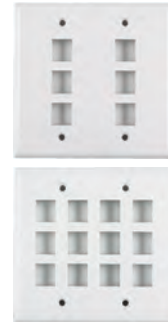
Use **Part No.** for ordering and **Type** for specification purposes.



## Dual Gang Flush Mount Faceplates

| Product Selection |                   |         |                                  |              |           |             |
|-------------------|-------------------|---------|----------------------------------|--------------|-----------|-------------|
| Article No.       | Part No.          | Type    | Description                      | Color        | Pkg. Qty. | Carton Qty. |
| 854-39229         | <b>FPDGSIX-FW</b> | FPDGSIX | Six Port - Standard Dual Gang    | Office White | 1         | 7           |
| 854-39232         | <b>FPDGSIX-W</b>  | FPDGSIX | Six Port - Standard Dual Gang    | White        | 1         | 7           |
| 854-39230         | <b>FPDGSIX-I</b>  | FPDGSIX | Six Port - Standard Dual Gang    | Ivory        | 1         | 7           |
| 854-39224         | <b>FPDG12-FW</b>  | FPDG12  | Twelve Port - Standard Dual Gang | Office White | 1         | 7           |
| 854-39227         | <b>FPDG12-W</b>   | FPDG12  | Twelve Port - Standard Dual Gang | White        | 1         | 7           |
| 854-39225         | <b>FPDG12-I</b>   | FPDG12  | Twelve Port - Standard Dual Gang | Ivory        | 1         | 7           |

Use **Part No.** for ordering and **Type** for specification purposes.



## Identification Faceplates

HellermannTyton also offers faceplates with identification windows. These flush keystone faceplates are available in 1, 2, 3, 4 and 6 port. Also, available is an angled 2-port faceplate that reduces cable stress. All identification faceplates come with mounting screws and identification windows. HellermannTyton's line of adhesive labels can be used in conjunction with these faceplates.



| Product Selection |                     |           |                                           |              |           |             |
|-------------------|---------------------|-----------|-------------------------------------------|--------------|-----------|-------------|
| Article No.       | Part No.            | Type      | Description                               | Color        | Pkg. Qty. | Carton Qty. |
| 854-39259         | <b>FPISINGLE-FW</b> | FPISINGLE | One Port - Single Gang w/ ID Windows      | Office White | 1         | 10          |
| 854-39261         | <b>FPISINGLE-W</b>  | FPISINGLE | One Port - Single Gang w/ ID Windows      | White        | 1         | 10          |
| 854-39260         | <b>FPISINGLE-I</b>  | FPISINGLE | One Port - Single Gang w/ ID Windows      | Ivory        | 1         | 10          |
| 854-39240         | <b>FPIDUAL-FW</b>   | FPIDUAL   | Two Port - Single Gang w/ ID Windows      | Office White | 1         | 10          |
| 854-39242         | <b>FPIDUAL-W</b>    | FPIDUAL   | Two Port - Single Gang w/ ID Windows      | White        | 1         | 10          |
| 854-39241         | <b>FPIDUAL-I</b>    | FPIDUAL   | Two Port - Single Gang w/ ID Windows      | Ivory        | 1         | 10          |
| 854-39221         | <b>FP45DUAL-FW</b>  | FP45DUAL  | Two Port - Angled Faceplate w/ ID Windows | Office White | 1         | 10          |
| 854-39223         | <b>FP45DUAL-W</b>   | FP45DUAL  | Two Port - Angled Faceplate w/ ID Windows | White        | 1         | 10          |
| 854-39222         | <b>FP45DUAL-I</b>   | FP45DUAL  | Two Port - Angled Faceplate w/ ID Windows | Ivory        | 1         | 10          |
| 854-39265         | <b>FPITRIPLE-FW</b> | FPITRIPLE | Three Port - Single Gang w/ ID Windows    | Office White | 1         | 10          |
| 854-39267         | <b>FPITRIPLE-W</b>  | FPITRIPLE | Three Port - Single Gang w/ ID Windows    | White        | 1         | 10          |
| 854-39266         | <b>FPITRIPLE-I</b>  | FPITRIPLE | Three Port - Single Gang w/ ID Windows    | Ivory        | 1         | 10          |
| 854-39255         | <b>FPIQUAD-FW</b>   | FPIQUAD   | Four Port - Single Gang w/ ID Windows     | Office White | 1         | 10          |
| 854-39258         | <b>FPIQUAD-W</b>    | FPIQUAD   | Four Port - Single Gang w/ ID Windows     | White        | 1         | 10          |
| 854-39257         | <b>FPIQUAD-I</b>    | FPIQUAD   | Four Port - Single Gang w/ ID Windows     | Ivory        | 1         | 10          |
| 854-39256         | <b>FPIQUAD-GRY</b>  | FPIQUAD   | Four Port - Single Gang w/ ID Windows     | Gray         | 1         | 10          |
| 854-39262         | <b>FPISIX-FW</b>    | FPISIX    | Six Port - Single Gang w/ ID Windows      | Office White | 1         | 10          |
| 854-39264         | <b>FPISIX-W</b>     | FPISIX    | Six Port - Single Gang w/ ID Windows      | White        | 1         | 10          |
| 854-39263         | <b>FPISIX-I</b>     | FPISIX    | Six Port - Single Gang w/ ID Windows      | Ivory        | 1         | 10          |

Use **Part No.** for ordering and **Type** for specification purposes.



## Midsized Faceplates

HellermannTyton midsized faceplates are perfect for installations where the opening is larger than normal, allowing for additions, deletions or changes to connections. This smooth finish, flush mount faceplate enables quick-and-easy installations and is offered in single gang 1, 2, 3, 4 and 6 port configurations. Dimensions: 4.8" x 3.1".

HellermannTyton's line of adhesive labels can be used for identification. All faceplates come with color-matched mounting screws.



| Product Selection |                     |           |                                                         |              |           |             |
|-------------------|---------------------|-----------|---------------------------------------------------------|--------------|-----------|-------------|
| Article No.       | Part No.            | Type      | Description                                             | Color        | Pkg. Qty. | Carton Qty. |
| 854-39274         | <b>FPMSINGLE-FW</b> | FPMSINGLE | One Port - Midsized Single Gang Flush Mount Faceplate   | Office White | 1         | 10          |
| 854-39276         | <b>FPMSINGLE-W</b>  | FPMSINGLE | One Port - Midsized Single Gang Flush Mount Faceplate   | White        | 1         | 10          |
| 854-39275         | <b>FPMSINGLE-I</b>  | FPMSINGLE | One Port - Midsized Single Gang Flush Mount Faceplate   | Ivory        | 1         | 10          |
| 854-39268         | <b>FPMDUAL-FW</b>   | FPMDUAL   | Two Port - Midsized Single Gang Flush Mount Faceplate   | Office White | 1         | 10          |
| 854-39270         | <b>FPMDUAL-W</b>    | FPMDUAL   | Two Port - Midsized Single Gang Flush Mount Faceplate   | White        | 1         | 10          |
| 854-39269         | <b>FPMDUAL-I</b>    | FPMDUAL   | Two Port - Midsized Single Gang Flush Mount Faceplate   | Ivory        | 1         | 10          |
| 854-39280         | <b>FPMTRIPLE-FW</b> | FPMTRIPLE | Three Port - Midsized Single Gang Flush Mount Faceplate | Office White | 1         | 10          |
| 854-39282         | <b>FPMTRIPLE-W</b>  | FPMTRIPLE | Three Port - Midsized Single Gang Flush Mount Faceplate | White        | 1         | 10          |
| 854-39281         | <b>FPMTRIPLE-I</b>  | FPMTRIPLE | Three Port - Midsized Single Gang Flush Mount Faceplate | Ivory        | 1         | 10          |
| 854-39271         | <b>FPMQUAD-FW</b>   | FPMQUAD   | Four Port - Midsized Single Gang Flush Mount Faceplate  | Office White | 1         | 10          |
| 854-39273         | <b>FPMQUAD-W</b>    | FPMQUAD   | Four Port - Midsized Single Gang Flush Mount Faceplate  | White        | 1         | 10          |
| 854-39272         | <b>FPMQUAD-I</b>    | FPMQUAD   | Four Port - Midsized Single Gang Flush Mount Faceplate  | Ivory        | 1         | 10          |
| 854-39277         | <b>FPMSIX-FW</b>    | FPMSIX    | Six Port - Midsized Single Gang Flush Mount Faceplate   | Office White | 1         | 10          |
| 854-39279         | <b>FPMSIX-W</b>     | FPMSIX    | Six Port - Midsized Single Gang Flush Mount Faceplate   | White        | 1         | 10          |
| 854-39278         | <b>FPMSIX-I</b>     | FPMSIX    | Six Port - Midsized Single Gang Flush Mount Faceplate   | Ivory        | 1         | 10          |

Use **Part No.** for ordering and **Type** for specification purposes.



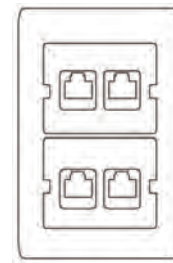
## Modular Faceplates

HellermannTyton's line of modular faceplates provides a great amount of flexibility. Offered in single gang or dual gang styles, these faceplates can be used with flush or angled modules. Up to four angled outlets can be installed in a single gang faceplate, providing an efficient solution for high-capacity applications.

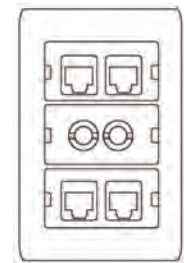
- Standard keystone style interface
- Single gang faceplate will accept 3U of inserts
- Dual gang faceplate will accept 6U of inserts
- One icon ring of the same color consisting of five data, five voice and six blanks are included with each bag of inserts
- Faceplate inserts can be loaded and unloaded from the front
- Icons provide a smooth, flush appearance on faceplate



A



1.5 U Module



1 U Module



B



C



D



E



F

### Product Selection

| Article No. | Part No.    | Type     | Description                        | Height in Units | Color        | Pkg. Qty. | Image |
|-------------|-------------|----------|------------------------------------|-----------------|--------------|-----------|-------|
| 854-35362   | FPM-FW      | FPM      | Modular Faceplate                  | –               | Office White | 1         | A     |
| 854-35380   | FPM-W       | FPM      | Modular Faceplate                  | –               | White        | 1         |       |
| 854-35363   | FPM-I       | FPM      | Modular Faceplate                  | –               | Ivory        | 1         |       |
| 854-35359   | FPMDG-FW    | FPMDG    | Modular Faceplate - Dual Gang      | –               | Office White | 1         | B     |
| 854-35361   | FPMDG-W     | FPMDG    | Modular Faceplate - Dual Gang      | –               | White        | 1         |       |
| 854-35360   | FPMDG-I     | FPMDG    | Modular Faceplate - Dual Gang      | –               | Ivory        | 1         |       |
| 854-35368   | FPMIB-FW    | FPMIB    | Blank Insert                       | 1U              | Office White | 3         | C     |
| 854-35370   | FPMIB-W     | FPMIB    | Blank Insert                       | 1U              | White        | 3         |       |
| 854-35369   | FPMIB-I     | FPMIB    | Blank Insert                       | 1U              | Ivory        | 3         |       |
| 854-35377   | FPMIFS-FW   | FPMIFS   | Single Port Insert with Icons      | 1U              | Office White | 3         | D     |
| 854-35379   | FPMIFS-W    | FPMIFS   | Single Port Insert with Icons      | 1U              | White        | 3         |       |
| 854-35378   | FPMIFS-I    | FPMIFS   | Single Port Insert with Icons      | 1U              | Ivory        | 3         |       |
| 854-35374   | FPMIFD-FW   | FPMIFD   | Dual Port Insert with Icons        | 1U              | Office White | 3         | E     |
| 854-35376   | FPMIFD-W    | FPMIFD   | Dual Port Insert with Icons        | 1U              | White        | 3         |       |
| 854-35375   | FPMIFD-I    | FPMIFD   | Dual Port Insert with Icons        | 1U              | Ivory        | 3         |       |
| 854-35364   | FPMIAD15-FW | FPMIAD15 | Angled Dual Port Insert with Icons | 1.5U            | Office White | 2         | F     |
| 854-35366   | FPMIAD15-W  | FPMIAD15 | Angled Dual Port Insert with Icons | 1.5U            | White        | 2         |       |
| 854-35365   | FPMIAD15-I  | FPMIAD15 | Angled Dual Port Insert with Icons | 1.5U            | Ivory        | 2         |       |

Use **Part No.** for ordering and **Type** for specification purposes.



## Modular Faceplate Icons

Available in the same twelve colors as the modular jacks, HellermannTyton's icons are ideal for identifying the modular faceplates. They are offered in rings of 16 icons with six rings in a bag. Each ring contains five voice icons, five data icons and six blank icons.



| Product Selection |                    |         |                                                        |              |           |
|-------------------|--------------------|---------|--------------------------------------------------------|--------------|-----------|
| Article No.       | Part No.           | Type    | Description                                            | Color        | Pkg. Qty. |
| 854-35345         | <b>FPICONC-BLK</b> | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Black        | 96 pcs.   |
| 854-35346         | <b>FPICONC-BLU</b> | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Blue         | 96 pcs.   |
| 854-35347         | <b>FPICONC-BRN</b> | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Brown        | 96 pcs.   |
| 854-35348         | <b>FPICONC-FW</b>  | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Office White | 96 pcs.   |
| 854-35349         | <b>FPICONC-GRN</b> | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Green        | 96 pcs.   |
| 854-35350         | <b>FPICONC-GRY</b> | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Gray         | 96 pcs.   |
| 854-35352         | <b>FPICONC-ORN</b> | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Orange       | 96 pcs.   |
| 854-35353         | <b>FPICONC-RED</b> | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Red          | 96 pcs.   |
| 854-35355         | <b>FPICONC-W</b>   | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | White        | 96 pcs.   |
| 854-35356         | <b>FPICONC-YEL</b> | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Yellow       | 96 pcs.   |
| 854-35357         | <b>FPICONC-I</b>   | FPICONC | Modular Faceplate Icon Ring - 5 Voice, 5 Data, 6 Blank | Ivory        | 96 pcs.   |

Use **Part No.** for ordering and **Type** for specification purposes.



## Horizontal Faceplates

HellermannTyton's line of horizontal faceplates are ideal for use in InfoStream® surface raceway. For applications where raceway is running along the wall, the horizontal faceplates provide proper orientation for jack installation. They are offered in single, dual, triple and quad configurations and are available in colors of ivory, office white and white to match HellermannTyton's raceway. The horizontal faceplates also are equipped with identification windows.

| Product Selection |                      |            |                                  |              |           |             |
|-------------------|----------------------|------------|----------------------------------|--------------|-----------|-------------|
| Article No.       | Part No.             | Type       | Description                      | Color        | Pkg. Qty. | Carton Qty. |
| 854-39249         | <b>FPIHSINGLE-FW</b> | FPIHSINGLE | Horizontal Single Port Faceplate | Office White | 1         | 10          |
| 854-39251         | <b>FPIHSINGLE-W</b>  | FPIHSINGLE | Horizontal Single Port Faceplate | White        | 1         | 10          |
| 854-39250         | <b>FPIHSINGLE-I</b>  | FPIHSINGLE | Horizontal Single Port Faceplate | Ivory        | 1         | 10          |
| 854-39243         | <b>FPIHDUAL-FW</b>   | FPIHDUAL   | Horizontal Two Port Faceplate    | Office White | 1         | 10          |
| 854-39245         | <b>FPIHDUAL-W</b>    | FPIHDUAL   | Horizontal Two Port Faceplate    | White        | 1         | 10          |
| 854-39244         | <b>FPIHDUAL-I</b>    | FPIHDUAL   | Horizontal Two Port Faceplate    | Ivory        | 1         | 10          |
| 854-39252         | <b>FPIHTRIPLE-FW</b> | FPIHTRIPLE | Horizontal Three Port Faceplate  | Office White | 1         | 10          |
| 854-39254         | <b>FPIHTRIPLE-W</b>  | FPIHTRIPLE | Horizontal Three Port Faceplate  | White        | 1         | 10          |
| 854-39253         | <b>FPIHTRIPLE-I</b>  | FPIHTRIPLE | Horizontal Three Port Faceplate  | Ivory        | 1         | 10          |
| 854-39246         | <b>FPIHQQUAD-FW</b>  | FPIHQQUAD  | Horizontal Four Port Faceplate   | Office White | 1         | 10          |
| 854-39248         | <b>FPIHQQUAD-W</b>   | FPIHQQUAD  | Horizontal Four Port Faceplate   | White        | 1         | 10          |
| 854-39247         | <b>FPIHQQUAD-I</b>   | FPIHQQUAD  | Horizontal Four Port Faceplate   | Ivory        | 1         | 10          |

Use **Part No.** for ordering and **Type** for specification purposes.



## Stainless Steel Faceplates

HellermannTyton offers stainless steel plates for heavy-duty industrial or institutional applications. Offered in 1, 2, 3, 4, or 6 port single gang versions and 4, 6 or 12 port dual gang versions. Also available, a single port phone faceplate - modular jacks sold separately.



### Product Selection

| Article No. | Part No.      | Type     | Description                                   | Pkg. Qty. | Carton Qty. |
|-------------|---------------|----------|-----------------------------------------------|-----------|-------------|
| 854-39312   | FPSINGLE-WPSS | FPSINGLE | Single Port Phone Faceplate                   | 1         | 10          |
| 854-39310   | FPSINGLE-SS   | FPSINGLE | Single Port Flush Mount Faceplate             | 1         | 10          |
| 854-39238   | FPDUAL-SS     | FPDUAL   | Two Port Flush Mount Faceplate                | 1         | 10          |
| 854-39325   | FPTRIPLE-SS   | FPTRIPLE | Three Port Flush Mount Faceplate              | 1         | 10          |
| 854-39288   | FPQUAD-SS     | FPQUAD   | Four Port Flush Mount Faceplate               | 1         | 10          |
| 854-39318   | FPSIX-SS      | FPSIX    | Six Port Flush Mount Faceplate                | 1         | 10          |
| 854-39228   | FPDGQUAD-SS   | FPDGQUAD | Four Port Flush Mount Faceplate - Dual Gang   | 1         | 7           |
| 854-39231   | FPDGSIX-SS    | FPDGSIX  | Six Port Flush Mount Faceplate - Dual Gang    | 1         | 7           |
| 854-39226   | FPDG12-SS     | FPDG12   | Twelve Port Flush Mount Faceplate - Dual Gang | 1         | 7           |

Use **Part No.** for ordering and **Type** for specification purposes.

## 106 Duplex Faceplates

HellermannTyton offers faceplates designed for power or communications requirements. Offered in single gang or dual gang styles, the 106 duplex faceplate is designed to cover standard electrical outlets. For communications/data applications, these faceplates also have the option of covering a standard 106 duplex mounting frame. Available in 2 port or 4 port, this mounting frame attaches onto electrical outlet boxes, raceway junction boxes or directly onto the wall, allowing telecommunications installations to appear consistent with electrical outlets. The faceplates and mounting frames are all available in three colors to match HellermannTyton's raceway products, junction boxes and jacks.



### Product Selection

| Article No. | Part No.           | Type     | Description                                   | Color        | Pkg. Qty. | Carton Qty. |
|-------------|--------------------|----------|-----------------------------------------------|--------------|-----------|-------------|
| 854-39209   | <b>FP106-FW</b>    | FP106    | 106 Duplex Faceplate                          | Office White | 1         | 20          |
| 854-39220   | <b>FP106-W</b>     | FP106    | 106 Duplex Faceplate                          | White        | 1         | 20          |
| 854-39210   | <b>FP106-I</b>     | FP106    | 106 Duplex Faceplate                          | Ivory        | 1         | 20          |
| 854-39206   | <b>FP106DG-FW</b>  | FP106DG  | 106 Duplex Faceplate - Dual Gang              | Office White | 1         | 10          |
| 854-39208   | <b>FP106DG-W</b>   | FP106DG  | 106 Duplex Faceplate - Dual Gang              | White        | 1         | 10          |
| 854-39207   | <b>FP106DG-I</b>   | FP106DG  | 106 Duplex Faceplate - Dual Gang              | Ivory        | 1         | 10          |
| 854-39217   | <b>FP106MF-FW</b>  | FP106MF  | 106 Duplex 2 Port Mounting Frame w/ Faceplate | Office White | 1         | 15          |
| 854-39219   | <b>FP106MF-W</b>   | FP106MF  | 106 Duplex 2 Port Mounting Frame w/ Faceplate | White        | 1         | 15          |
| 854-39218   | <b>FP106MF-I</b>   | FP106MF  | 106 Duplex 2 Port Mounting Frame w/ Faceplate | Ivory        | 1         | 15          |
| 854-39211   | <b>FP106MF2-FW</b> | FP106MF2 | 106 Duplex 2 Port Mounting Frame              | Office White | 1         | 10          |
| 854-39213   | <b>FP106MF2-W</b>  | FP106MF2 | 106 Duplex 2 Port Mounting Frame              | White        | 1         | 10          |
| 854-39212   | <b>FP106MF2-I</b>  | FP106MF2 | 106 Duplex 2 Port Mounting Frame              | Ivory        | 1         | 10          |
| 854-39214   | <b>FP106MF4-FW</b> | FP106MF4 | 106 Duplex 4 Port Mounting Frame              | Office White | 1         | 10          |
| 854-39216   | <b>FP106MF4-W</b>  | FP106MF4 | 106 Duplex 4 Port Mounting Frame              | White        | 1         | 10          |
| 854-39215   | <b>FP106MF4-I</b>  | FP106MF4 | 106 Duplex 4 Port Mounting Frame              | Ivory        | 1         | 10          |

Use **Part No.** for ordering and **Type** for specification purposes.

## Decorator Faceplates

HellermannTyton offers faceplates designed for power or communications requirements. Offered in single gang or dual gang styles, the decorator faceplate is designed to cover standard electrical outlets. For communications/data applications, these faceplates also can be used to cover a standard decorator mounting frame. These mounting frames attach onto electrical outlet boxes, raceway junction boxes or directly onto the wall, allowing telecommunications installations to appear consistent with electrical outlets. The faceplates and mounting frames are all available in three colors to match HellermannTyton's raceway products, junction boxes and jacks.



| Product Selection |           |        |                                             |              |           |             |
|-------------------|-----------|--------|---------------------------------------------|--------------|-----------|-------------|
| Article No.       | Part No.  | Type   | Description                                 | Color        | Pkg. Qty. | Carton Qty. |
| 854-39293         | FPR-FW    | FPR    | Rectangular Decorator Faceplate             | Office White | 1         | 15          |
| 854-39304         | FPR-W     | FPR    | Rectangular Decorator Faceplate             | White        | 1         | 15          |
| 854-39294         | FPR-I     | FPR    | Rectangular Decorator Faceplate             | Ivory        | 1         | 15          |
| 854-39290         | FPRDG-FW  | FPRDG  | Rectangular Decorator Faceplate - Dual Gang | Office White | 1         | 10          |
| 854-39292         | FPRDG-W   | FPRDG  | Rectangular Decorator Faceplate - Dual Gang | White        | 1         | 10          |
| 854-39291         | FPRDG-I   | FPRDG  | Rectangular Decorator Faceplate - Dual Gang | Ivory        | 1         | 10          |
| 854-39295         | FPRMF2-FW | FPRMF2 | Rectangular Decorator 2 Port Mounting Frame | Office White | 1         | 15          |
| 854-39297         | FPRMF2-W  | FPRMF2 | Rectangular Decorator 2 Port Mounting Frame | White        | 1         | 15          |
| 854-39296         | FPRMF2-I  | FPRMF2 | Rectangular Decorator 2 Port Mounting Frame | Ivory        | 1         | 15          |
| 854-39298         | FPRMF3-FW | FPRMF3 | Rectangular Decorator 3 Port Mounting Frame | Office White | 1         | 15          |
| 854-39300         | FPRMF3-W  | FPRMF3 | Rectangular Decorator 3 Port Mounting Frame | White        | 1         | 15          |
| 854-39299         | FPRMF3-I  | FPRMF3 | Rectangular Decorator 3 Port Mounting Frame | Ivory        | 1         | 15          |
| 854-39301         | FPRMF4-FW | FPRMF4 | Rectangular Decorator 4 Port Mounting Frame | Office White | 1         | 15          |
| 854-39303         | FPRMF4-W  | FPRMF4 | Rectangular Decorator 4 Port Mounting Frame | White        | 1         | 15          |
| 854-39302         | FPRMF4-I  | FPRMF4 | Rectangular Decorator 4 Port Mounting Frame | Ivory        | 1         | 15          |

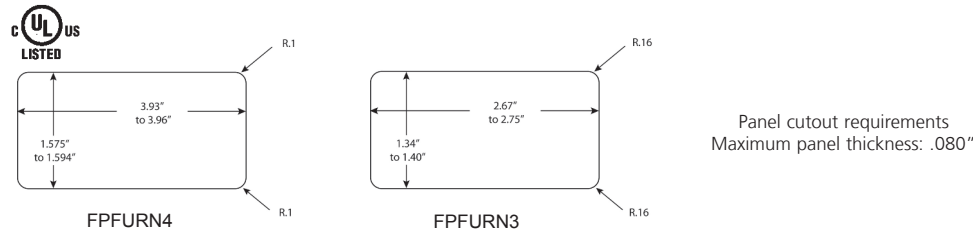
Use **Part No.** for ordering and **Type** for specification purposes.

## Modular Furniture Faceplates

HellermannTyton offers a faceplate to fit into the breakout areas of most modular furniture brands including Herman Miller®, Haworth®, HON®, and Steelcase®\*. The 3 or 4 port faceplate easily snaps into standard modular furniture openings. It can accommodate HellermannTyton modular jacks and multimedia modules, providing solutions for voice, coax, audio, video and fiber applications. The furniture faceplate ports can be identified with HellermannTyton faceplate labels.

| Product Selection |                    |         |                                    |              |           |
|-------------------|--------------------|---------|------------------------------------|--------------|-----------|
| Article No.       | Part No.           | Type    | Description                        | Color        | Pkg. Qty. |
| 854-39327         | <b>FPFURN3-BLK</b> | FPFURN3 | 3 Port Modular Furniture Faceplate | Black        | 1         |
| 854-39328         | <b>FPFURN3-FW</b>  | FPFURN3 | 3 Port Modular Furniture Faceplate | Office White | 1         |
| 852-39203         | <b>FPFURN4-BLK</b> | FPFURN4 | 4 Port Modular Furniture Faceplate | Black        | 1         |
| 852-39204         | <b>FPFURN4-FW</b>  | FPFURN4 | 4 Port Modular Furniture Faceplate | Office White | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. For use with Spirit® Printer - use label with HellermannTyton Part Number: TAGHPP-336. For use with Herman Miller products, use Herman Miller reducer: G1189A. \*\*Herman Miller®, Haworth®, HON®, and Steelcase® are registered trademarks of Herman Miller Inc., Haworth, Inc., HON Technology, Inc., and Steelcase Development Inc., respectively. HellermannTyton Corporation is not affiliated or associated with these companies in any way.



## Surface Mount Boxes

The surface mount boxes feature a compact low-profile outline. They are ideal for retrofit situations and where internal wall access may not be obtainable. Designed for use with HellermannTyton's modular jacks and various multimedia modules, the surface mount boxes are easy to install and can be fastened to any surface. Adhesive strips are included to add to ease of installation. The boxes have knockouts on three sides to mate with HellermannTyton's TSR single channel raceway in 3/4" and 1-1/4" widths. The cover snaps on easily and can be removed for adds and changes. The dual port, surface mount box is manufactured as a single port but features a knockout for easy conversion to a two port box. Jack modules sold separately.

| Product Selection |                   |         |                             |              |        |       |       |           |
|-------------------|-------------------|---------|-----------------------------|--------------|--------|-------|-------|-----------|
| Article No.       | Part No.          | Type    | Description                 | Color        | Height | Width | Depth | Pkg. Qty. |
| 854-35543         | <b>SMBDUAL-FW</b> | SMBDUAL | Two Port Surface Mount Box  | Office White | 1.07"  | 2.32" | 2.78" | 1         |
| 854-35544         | <b>SMBDUAL-I</b>  | SMBDUAL | Two Port Surface Mount Box  | Ivory        | 1.07"  | 2.32" | 2.78" | 1         |
| 854-35545         | <b>SMBDUAL-W</b>  | SMBDUAL | Two Port Surface Mount Box  | White        | 1.07"  | 2.32" | 2.78" | 1         |
| 854-39203         | <b>SMBQUAD-FW</b> | SMBQUAD | Four Port Surface Mount Box | Office White | 1.1"   | 4.52" | 3.27" | 1         |
| 854-39204         | <b>SMBQUAD-I</b>  | SMBQUAD | Four Port Surface Mount Box | Ivory        | 1.1"   | 4.52" | 3.27" | 1         |
| 854-39205         | <b>SMBQUAD-W</b>  | SMBQUAD | Four Port Surface Mount Box | White        | 1.1"   | 4.52" | 3.27" | 1         |
| 854-39200         | <b>SMBSIX-FW</b>  | SMBSIX  | Six Port Surface Mount Box  | Office White | 1.26"  | 6.69" | 4.33" | 1         |
| 854-39201         | <b>SMBSIX-I</b>   | SMBSIX  | Six Port Surface Mount Box  | Ivory        | 1.26"  | 6.69" | 4.33" | 1         |
| 854-39202         | <b>SMBSIX-W</b>   | SMBSIX  | Six Port Surface Mount Box  | White        | 1.26"  | 6.69" | 4.33" | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Multimedia Modules

HellermannTyton provides modules for various types of connectors. Available in three colors, these modules are adaptable to HellermannTyton faceplates, surface mount boxes and modular panels.

## Fiber Modules

ST, SC, LC and MTRJ multimode/single mode fiber optic adapter modules insert into HellermannTyton's standard flush wallplates.



ST Fiber Module

SC Fiber Module



LC Duplex Fiber Module

MTRJ Fiber Module

| Product Selection       |                |             |                        |              |           |
|-------------------------|----------------|-------------|------------------------|--------------|-----------|
| Article No.             | Part No.       | Type        | Description            | Color        | Pkg. Qty. |
| ST Fiber Modules        |                |             |                        |              |           |
| 854-44227               | FIBERINSERT-FW | FIBERINSERT | ST Fiber Module        | Office White | 1         |
| 854-44229               | FIBERINSERT-W  | FIBERINSERT | ST Fiber Module        | White        | 1         |
| 854-44228               | FIBERINSERT-I  | FIBERINSERT | ST Fiber Module        | Ivory        | 1         |
| SC Fiber Modules        |                |             |                        |              |           |
| 854-44280               | SCINSERT-FW    | SCINSERT    | SC Fiber Module        | Office White | 1         |
| 854-44282               | SCINSERT-W     | SCINSERT    | SC Fiber Module        | White        | 1         |
| 854-44281               | SCINSERT-I     | SCINSERT    | SC Fiber Module        | Ivory        | 1         |
| LC Duplex Fiber Modules |                |             |                        |              |           |
| 854-44238               | LCINSERT-FW    | LCINSERT    | LC Duplex Fiber Module | Office White | 1         |
| 854-44240               | LCINSERT-W     | LCINSERT    | LC Duplex Fiber Module | White        | 1         |
| 854-44239               | LCINSERT-I     | LCINSERT    | LC Duplex Fiber Module | Ivory        | 1         |
| MTRJ Fiber Modules      |                |             |                        |              |           |
| 854-44241               | MTRJINSERT-FW  | MTRJINSERT  | MTRJ Fiber Module      | Office White | 1         |
| 854-44243               | MTRJINSERT-W   | MTRJINSERT  | MTRJ Fiber Module      | White        | 1         |
| 854-44242               | MTRJINSERT-I   | MTRJINSERT  | MTRJ Fiber Module      | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## BNC Connector Modules

Female-to-female BNC connectors are designed to accommodate coaxial cable applications. Use with RG58/RG59, RG62 connectors.



| Product Selection |              |           |                      |              |           |
|-------------------|--------------|-----------|----------------------|--------------|-----------|
| Article No.       | Part No.     | Type      | Description          | Color        | Pkg. Qty. |
| 854-44221         | BNCINSERT-FW | BNCINSERT | BNC Connector Module | Office White | 1         |
| 854-44223         | BNCINSERT-W  | BNCINSERT | BNC Connector Module | White        | 1         |
| 854-44222         | BNCINSERT-I  | BNCINSERT | BNC Connector Module | Ivory        | 1         |
| 854-44220         | BNCINSERT-BK | BNCINSERT | BNC Connector Module | Black        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



Multimedia Modules *continued*

## F Connector Modules

Female-to-female F connector designed to accommodate CATV applications.



| Product Selection |                    |         |                              |              |           |
|-------------------|--------------------|---------|------------------------------|--------------|-----------|
| Article No.       | Part No.           | Type    | Description                  | Color        | Pkg. Qty. |
| 854-44235         | <b>FINSERT-FW</b>  | FINSERT | F Connector Module           | Office White | 1         |
| 854-44237         | <b>FINSERT-W</b>   | FINSERT | F Connector Module           | White        | 1         |
| 854-44236         | <b>FINSERT-I</b>   | FINSERT | F Connector Module           | Ivory        | 1         |
| 854-44233         | <b>FINSERT-BK</b>  | FINSERT | F Connector Module           | Black        | 1         |
| 854-44230         | <b>FINSERT-B</b>   | FINSERT | F Connector Module           | Brown        | 1         |
| 854-44231         | <b>FINSERTB-FW</b> | FINSERT | F Connector Module Bulk Pack | Office White | 50        |
| 854-44234         | <b>FINSERTB-W</b>  | FINSERT | F Connector Module Bulk Pack | White        | 50        |
| 854-44232         | <b>FINSERTB-I</b>  | FINSERT | F Connector Module Bulk Pack | Ivory        | 50        |

Use **Part No.** for ordering and **Type** for specification purposes.



## Blank Insert Module

Designed to cover extra ports in faceplate until future expansion is needed.



| Product Selection |                  |       |              |              |           |
|-------------------|------------------|-------|--------------|--------------|-----------|
| Article No.       | Part No.         | Type  | Description  | Color        | Pkg. Qty. |
| 854-35253         | <b>BLANK-FW</b>  | BLANK | Blank Module | Office White | 10        |
| 854-35255         | <b>BLANK-W</b>   | BLANK | Blank Module | White        | 10        |
| 854-35254         | <b>BLANK-I</b>   | BLANK | Blank Module | Ivory        | 10        |
| 854-44217         | <b>BLANK-BK</b>  | BLANK | Blank Module | Black        | 10        |
| 854-44216         | <b>BLANK-B</b>   | BLANK | Blank Module | Brown        | 10        |
| 854-44218         | <b>BLANK-GRY</b> | BLANK | Blank Module | Gray         | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.



Multimedia Modules *continued*

## RCA Coupler Modules

For audio and video applications, HellermannTyton offers RCA female couplers, RCA-F connectors, and RCA-110



| Product Selection |                 |           |                                       |              |           |
|-------------------|-----------------|-----------|---------------------------------------|--------------|-----------|
| Article No.       | Part No.        | Type      | Description                           | Color        | Pkg. Qty. |
| 854-44265         | RCAINSERTY-FW   | RCAINSERT | RCA Coupler Module with Yellow Stripe | Office White | 1         |
| 854-44267         | RCAINSERTY-W    | RCAINSERT | RCA Coupler Module with Yellow Stripe | White        | 1         |
| 854-44266         | RCAINSERTY-I    | RCAINSERT | RCA Coupler Module with Yellow Stripe | Ivory        | 1         |
| 854-44259         | RCAINSERTR-FW   | RCAINSERT | RCA Coupler Module with Red Stripe    | Office White | 1         |
| 854-44261         | RCAINSERTR-W    | RCAINSERT | RCA Coupler Module with Red Stripe    | White        | 1         |
| 854-44260         | RCAINSERTR-I    | RCAINSERT | RCA Coupler Module with Red Stripe    | Ivory        | 1         |
| 854-44256         | RCAINSERTB-FW   | RCAINSERT | RCA Coupler Module with Black Stripe  | Office White | 1         |
| 854-44258         | RCAINSERTB-W    | RCAINSERT | RCA Coupler Module with Black Stripe  | White        | 1         |
| 854-44257         | RCAINSERTB-I    | RCAINSERT | RCA Coupler Module with Black Stripe  | Ivory        | 1         |
| 854-44414         | RCAINSERTBLU-FW | RCAINSERT | RCA Coupler Module with Blue Stripe   | Office White | 1         |
| 854-44415         | RCAINSERTBLU-W  | RCAINSERT | RCA Coupler Module with Blue Stripe   | White        | 1         |
| 854-44413         | RCAINSERTBLU-I  | RCAINSERT | RCA Coupler Module with Blue Stripe   | Ivory        | 1         |
| 854-44417         | RCAINSERTG-FW   | RCAINSERT | RCA Coupler Module with Green Stripe  | Office White | 1         |
| 854-44418         | RCAINSERTG-W    | RCAINSERT | RCA Coupler Module with Green Stripe  | White        | 1         |
| 854-44416         | RCAINSERTG-I    | RCAINSERT | RCA Coupler Module with Green Stripe  | Ivory        | 1         |
| 854-44262         | RCAINSERTW-FW   | RCAINSERT | RCA Coupler Module with White Stripe  | Office White | 1         |
| 854-44264         | RCAINSERTW-W    | RCAINSERT | RCA Coupler Module with White Stripe  | White        | 1         |
| 854-44263         | RCAINSERTW-I    | RCAINSERT | RCA Coupler Module with White Stripe  | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



Multimedia Modules *continued*

## RCA to F Connector Modules



| Product Selection |                 |              |                                           |              |           |
|-------------------|-----------------|--------------|-------------------------------------------|--------------|-----------|
| Article No.       | Part No.        | Type         | Description                               | Color        | Pkg. Qty. |
| 854-44253         | RCAFINSEITY-FW  | RCAFINSEITY  | RCA-F Connector Module with Yellow Stripe | Office White | 1         |
| 854-44255         | RCAFINSEITY-W   | RCAFINSEITY  | RCA-F Connector Module with Yellow Stripe | White        | 1         |
| 854-44254         | RCAFINSEITY-I   | RCAFINSEITY  | RCA-F Connector Module with Yellow Stripe | Ivory        | 1         |
| 854-44247         | RCAFINSEITB-FW  | RCAFINSEITB  | RCA-F Connector Module with Black Stripe  | Office White | 1         |
| 854-44249         | RCAFINSEITB-W   | RCAFINSEITB  | RCA-F Connector Module with Black Stripe  | White        | 1         |
| 854-44248         | RCAFINSEITB-I   | RCAFINSEITB  | RCA-F Connector Module with Black Stripe  | Ivory        | 1         |
| 854-44250         | RCAFINSEITR-FW  | RCAFINSEITR  | RCA-F Connector Module with Red Stripe    | Office White | 1         |
| 854-44252         | RCAFINSEITR-W   | RCAFINSEITR  | RCA-F Connector Module with Red Stripe    | White        | 1         |
| 854-44251         | RCAFINSEITR-I   | RCAFINSEITR  | RCA-F Connector Module with Red Stripe    | Ivory        | 1         |
| 854-44408         | RCAFINSEITBL-FW | RCAFINSEITBL | RCA-F Connector Module with Blue Stripe   | Office White | 1         |
| 854-44409         | RCAFINSEITBL-W  | RCAFINSEITBL | RCA-F Connector Module with Blue Stripe   | White        | 1         |
| 854-44407         | RCAFINSEITBL-I  | RCAFINSEITBL | RCA-F Connector Module with Blue Stripe   | Ivory        | 1         |
| 854-44411         | RCAFINSEITG-FW  | RCAFINSEITG  | RCA-F Connector Module with Green Stripe  | Office White | 1         |
| 854-44412         | RCAFINSEITG-W   | RCAFINSEITG  | RCA-F Connector Module with Green Stripe  | White        | 1         |
| 854-44410         | RCAFINSEITG-I   | RCAFINSEITG  | RCA-F Connector Module with Green Stripe  | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

Multimedia Modules *continued*

## RCA to 110 Connector Modules



| Product Selection |                   |        |                                             |              |           |
|-------------------|-------------------|--------|---------------------------------------------|--------------|-----------|
| Article No.       | Part No.          | Type   | Description                                 | Color        | Pkg. Qty. |
| 854-44268         | <b>RCAR110-FW</b> | RCA110 | RCA-110 Connector Module with Red Stripe    | Office White | 1         |
| 854-44270         | <b>RCAR110-W</b>  | RCA110 | RCA-110 Connector Module with Red Stripe    | White        | 1         |
| 854-44269         | <b>RCAR110-I</b>  | RCA110 | RCA-110 Connector Module with Red Stripe    | Ivory        | 1         |
| 854-44244         | <b>RCAB110-FW</b> | RCA110 | RCA-110 Connector Module with Black Stripe  | Office White | 1         |
| 854-44246         | <b>RCAB110-W</b>  | RCA110 | RCA-110 Connector Module with Black Stripe  | White        | 1         |
| 854-44245         | <b>RCAB110-I</b>  | RCA110 | RCA-110 Connector Module with Black Stripe  | Ivory        | 1         |
| 854-44274         | <b>RCAY110-FW</b> | RCA110 | RCA-110 Connector Module with Yellow Stripe | Office White | 1         |
| 854-44276         | <b>RCAY110-W</b>  | RCA110 | RCA-110 Connector Module with Yellow Stripe | White        | 1         |
| 854-44275         | <b>RCAY110-I</b>  | RCA110 | RCA-110 Connector Module with Yellow Stripe | Ivory        | 1         |
| 854-44271         | <b>RCAW110-FW</b> | RCA110 | RCA-110 Connector Module with White Stripe  | Office White | 1         |
| 854-44273         | <b>RCAW110-W</b>  | RCA110 | RCA-110 Connector Module with White Stripe  | White        | 1         |
| 854-44272         | <b>RCAW110-I</b>  | RCA110 | RCA-110 Connector Module with White Stripe  | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## S-Video to 110 Connector Modules

Designed for video connections - module is equipped with 110 IDC punchdown in rear and S-video connection in front.



| Product Selection |                      |            |                                 |              |           |
|-------------------|----------------------|------------|---------------------------------|--------------|-----------|
| Article No.       | Part No.             | Type       | Description                     | Color        | Pkg. Qty. |
| 854-44277         | <b>S110INSERT-FW</b> | S110INSERT | S-Video to 110 Punchdown Module | Office White | 1         |
| 854-44279         | <b>S110INSERT-W</b>  | S110INSERT | S-Video to 110 Punchdown Module | White        | 1         |
| 854-44278         | <b>S110INSERT-I</b>  | S110INSERT | S-Video to 110 Punchdown Module | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## Banana Jack Modules

Snap-in module for speaker connections



| Product Selection |                     |           |                                                              |              |           |
|-------------------|---------------------|-----------|--------------------------------------------------------------|--------------|-----------|
| Article No.       | Part No.            | Type      | Description                                                  | Color        | Pkg. Qty. |
| 854-44213         | <b>BANINSERT-FW</b> | BANINSERT | Banana Jack Module - one w/ red stripe & one w/ black stripe | Office White | 1         |
| 854-44215         | <b>BANINSERT-W</b>  | BANINSERT | Banana Jack Module - one w/ red stripe & one w/ black stripe | White        | 1         |
| 854-44214         | <b>BANINSERT-I</b>  | BANINSERT | Banana Jack Module - one w/ red stripe & one w/ black stripe | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



Binding Post Modules

Snap-in module for speaker connections



| Product Selection |             |          |                                                               |              |           |
|-------------------|-------------|----------|---------------------------------------------------------------|--------------|-----------|
| Article No.       | Part No.    | Type     | Description                                                   | Color        | Pkg. Qty. |
| 854-44224         | BPINSERT-FW | BPINSERT | Binding Post Module - one w/ red stripe & one w/ black stripe | Office White | 1         |
| 854-44226         | BPINSERT-W  | BPINSERT | Binding Post Module - one w/ red stripe & one w/ black stripe | White        | 1         |
| 854-44225         | BPINSERT-I  | BPINSERT | Binding Post Module - one w/ red stripe & one w/ black stripe | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



# CROSS CONNECT PRODUCTS

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

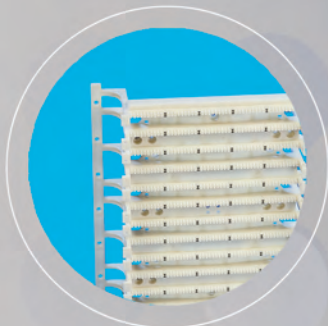
Patch Panels .....64-72

110 Blocks .....73-74

66 Blocks .....75

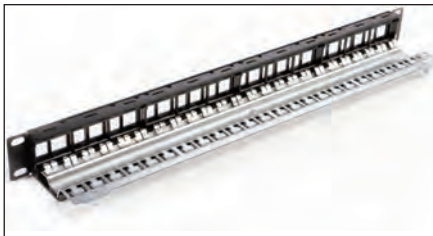
Patch Cords .....76-83

Tools .....84



## Category 6A Shielded Patch Panels

HellermannTyton's Category 6A shielded patch panels accept HellermannTyton Shielded Category 6A jacks (RJ45FC6AS) to complete a shielded system solution. The panel provides a choice of ground stud positions on the integral grounding bar and includes rear cable management. Panels are offered in two styles, a fixed version or a sliding version to ease installation. To ease installation further, both styles are offered with Rack-Snap inserts. These inserts dramatically reduce installation time as they eliminate the need for tools and cage nuts in standard EIA-310-D standard racks or cabinets with square holes.



### Product Selection

| Article No. | Part No.      | Type       | Description                                                         | Pkg. Qty. |
|-------------|---------------|------------|---------------------------------------------------------------------|-----------|
| 853-55000   | PP24MOD6ASRS  | PP24MOD6AS | Category 6A - 1U 24 Port Shielded Patch Panel w/ Rack-Snaps         | 1         |
| 853-55001   | PP24SMOD6ASRS | PP24MOD6AS | Category 6A - 1U 24 Port Sliding Shielded Patch Panel w/ Rack-Snaps | 1         |
| 853-55002   | PP24MOD6AS    | PP24MOD6AS | Category 6A - 1U 24 Port Shielded Patch Panel                       | 1         |
| 853-55003   | PP24SMOD6AS   | PP24MOD6AS | Category 6A - 1U 24 Port Sliding Shielded Patch Panel               | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## GigaBand® Category 6 Patch Panels

GigaBand Category 6 patch panels provide unbeatable Category 6 performance. With positive PowerSum ACR up to 400 MHz, Category 6 patch panels exceed the latest Category 6 specifications covering hardware, link and channel performance. The GigaBand line of panels is designed to support all existing and future applications. These patch panels also offer backward compatible performance, ensuring that they are suitable for use in existing as well as new system installations. The GigaBand line includes both Category 6 AlphaSnap and Universal patch panels.

## Category 6 AlphaSnap® Patch Panels

The HellermannTyton Category 6 AlphaSnap line of patch panels is the ultimate in patch panel technology. The panels are equipped with individual, fully-modular printed circuit boards (PCBs). Rather than replace the entire panel, each port can be individually removed and replaced if damaged during installation. The AlphaSnap panel is equipped with a rear cable manager.



Constructed from extruded aluminum and toughened plastic, this rear cable management bar easily snaps in and out of the back of the patch panel without the need of tools. Four grip tie mounts, located along the length of the management bar, slide into position, ensure that cables are not twisted or pinched during installation. The AlphaSnap panel introduces a patented slide-labeling system, providing excellent protection for panel identification.

The panels are configured for both T568A and T568B wiring, eliminating the need for additional panels.

- All modules are individually removable and replaceable
- Panel features very sturdy construction with thick rolled-edge steel plates
- Each port is individually tested three times to ensure quality performance
- Unique, patented slide-label system provides a flush-front panel face
- Label ramp provides easy insertion of the patented slide label
- Pre-perforated label sheets are available for use with HellermannTyton TagPrint™ Pro software\*
- Lightweight aluminum rear cable manager comes with the panel and provides for neat and organized installation
- Utilizes same innovative crosstalk technology used in HellermannTyton modular jacks with 10 internal contacts to reduce NEXT
- Optional front cable manager is offered in 1U size and hangs from patch panel screws



*A rear cable manager is included with all AlphaSnap Patch Panels.*



*Optional Front Cable Manager*

### Product Selection

| Article No. | Part No.   | Type       | Description                                                            | Pkg. Qty. |
|-------------|------------|------------|------------------------------------------------------------------------|-----------|
| 853-50006   | PP110C6G24 | PP110C6G24 | Category 6 - 1U 24 Port 110 AlphaSnap Patch Panel w/Rear Cable Manager | 1         |
| 853-50007   | PP110C6G48 | PP110C6G48 | Category 6 - 2U 48 Port 110 AlphaSnap Patch Panel w/Rear Cable Manager | 1         |
| 853-50005   | PP110C6G1  | PP110C6G1  | Category 6 Replacement Module - Single                                 | 1         |
| 859-35057   | TFCM       | TFCM       | Front Cable Manager                                                    | 1         |
| 854-05138   | TRCMA      | TRCM       | AlphaSnap Rear Cable Manager                                           | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. \*For Laser/Ink jet printing: use HellermannTyton part number: TAGPP11010  
For use with Spirit® Printer: use HellermannTyton part number: TAGHTP-336



## Category 6 Universal Patch Panels

HellermannTyton's Category 6 Universal patch panels are preconfigured in 12, 24 and 48 port versions. The panels are offered with increments of six port modules, which can be replaced if damaged during installation.

### Category 6 Universal Patch Panels with Rack-Snap Inserts

The 24 and 48 port Universal patch panels also are available with Rack-Snap inserts, a revolutionary new patch panel fixing device which drastically reduces installation time.

- Preassembled with the Rack-Snap inserts
- Eliminates the need for cage nuts
- Snaps into standard square holes in the cabinet, making installation easy without the need for tools
- Patch panel can be taken out of the box and snapped directly into the cabinet
- Fits into most manufacturers EIA-310-D standard racks or cabinets with square holes
- Rack-Snap inserts not sold separately



Universal Panel with Rack-Snap Inserts



### Category 6 Universal Patch Panels

- 6 port modules can be replaced easily if damaged during installation
- Front face provides an attractive, flush appearance
- Write-on labels provided for easy identification
- Self-adhesive labels available for use with HellermannTyton TagPrint™ Pro software\*
- Configured for 568A or 568B wiring on same panel, thus eliminating the need for extra inventory
- Lightweight aluminum rear cable manager can be ordered separately to provide a neat and organized installation using Grip Ties
- Sturdy and smooth rolled edges
- Clear plastic channel protects PCB and allows easy viewing of wiring label
- Utilizes same innovative crosstalk technology used in HellermannTyton modular jacks with 10 internal contacts to reduce NEXT



Optional Rear Cable Manager



Optional Front Cable Manager

#### Product Selection

| Article No. | Part No.    | Type        | Description                                                                  | Pkg. Qty. |
|-------------|-------------|-------------|------------------------------------------------------------------------------|-----------|
| 853-50000   | PP110C612   | PP110C612   | Category 6 - 1U 12 Port 110 Universal Patch Panel                            | 1         |
| 853-50001   | PP110C612V  | PP110C612V  | Category 6 - 1U 12 Port Vertical 110 Universal Patch Panel                   | 1         |
| 853-50002   | PP110C624   | PP110C624   | Category 6 - 1U 24 Port 110 Universal Patch Panel                            | 1         |
| 853-20106   | PP110C624RS | PP110C624RS | Category 6 - 1U 24 Port 110 Universal Patch Panel <b>w/Rack-Snap Inserts</b> | 1         |
| 853-50003   | PP110C648   | PP110C648   | Category 6 - 2U 48 Port 110 Universal Patch Panel                            | 1         |
| 853-20107   | PP110C648RS | PP110C648RS | Category 6 - 2U 48 Port 110 Universal Patch Panel <b>w/Rack-Snap Inserts</b> | 1         |
| 853-50004   | PP110C66    | PP110C66    | Category 6 Replacement Module - 6 Pack                                       | 1         |
| 859-35057   | TFCM        | TFCM        | Front Cable Manager                                                          | 1         |
| 854-05139   | TRCMU       | TRCM        | Universal Rear Cable Manager                                                 | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. \*For thermal transfer printing: use HellermannTyton part number TAGPP2T6-822 series. For Laser printing: use TAGPP2-788 series. For use with Spirit® Printer: use HellermannTyton part number: TAGHTP-336



## MegaBand® Category 5e Patch Panels

HellermannTyton MegaBand Category 5e patch panels offer the same features as the GigaBand panels; however, they have been developed to fully comply with the Category 5e performance standard. When used with recommended horizontal cables, these patch panels are key components in HellermannTyton's Category 5e system which has been tested up to 200MHz. HellermannTyton offers Category 5e patch panels in both the AlphaSnap and Universal styles.

## Category 5e AlphaSnap® Patch Panels

The HellermannTyton Category 5e AlphaSnap line of patch panels is the ultimate in patch panel technology. The panels are equipped with individual, fully-modular printed circuit boards (PCBs). Rather than replace the entire panel, each port can be individually removed and replaced if damaged during installation. Lightweight aluminum rear cable manager, included with panel, provides easy routing into vertical management by providing four Grip Tie mounts that can slide and rotate to accommodate bundles of up to twelve cables. The AlphaSnap panel introduces a patented slide-labeling system, providing excellent protection for panel identification. The panels are configured for both T568A and T568B wiring, eliminating the need for additional panels.

- All modules are individually removable and replaceable
- Panel features sturdy construction with thick rolled-edge steel plates
- Unique, patented slide-label system provides a flush-front panel face
- Label ramp provides easy insertion of the patented slide label
- Pre-perforated label sheets are available for use with HellermannTyton TagPrint™ Pro software\*
- Configured for 568A or 568B wiring on same panel
- Lightweight aluminum rear cable manager comes with the panel and provides for a neat and organized installation using Grip Ties



*A rear cable manager is included with all AlphaSnap Patch Panels.*



*Optional Front Cable Manager*

### Product Selection

| Article No. | Part No.    | Type        | Description                                                             | Pkg. Qty. |
|-------------|-------------|-------------|-------------------------------------------------------------------------|-----------|
| 853-20083   | PP110C5EA24 | PP110C5EA24 | Category 5e - 1U 24 Port 110 AlphaSnap Patch Panel w/Rear Cable Manager | 1         |
| 853-20084   | PP110C5EA48 | PP110C5EA48 | Category 5e - 1U 48 Port 110 AlphaSnap Patch Panel w/Rear Cable Manager | 1         |
| 853-20082   | PP110C5EA1  | PP110C5EA1  | Category 5e Replacement Module - 6 Pack                                 | 1         |
| 854-05138   | TRCMA       | TRCM        | AlphaSnap Rear Cable Manager                                            | 1         |
| 859-35057   | TFCM        | TFCM        | 1U Front Cable Manager                                                  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. \*For Laser/Ink jet printing: use HellermannTyton part number: TAGPP11010  
For use with Spirit® Printer: use HellermannTyton part number: TAGHTP-336



## Category 5e Universal Patch Panels

HellermannTyton's Category 5e Universal patch panels are pre-configured in 12, 24, 48, and 96 port versions to meet the needs of nearly all customer applications. The panels are offered with increments of 6 port modules which can be replaced if damaged during installation.



*Vertical 12 port patch panel*

## Category 5e Universal Patch Panels with Rack-Snap Inserts

The 24 and 48 port Universal patch panels are also available with Rack-Snap inserts, a revolutionary new patch panel fixing device which drastically reduces installation time.

- Preassembled with the Rack-Snap inserts
- Eliminates the need for cage nuts
- Snap into standard square holes in the cabinet, making installation easy without the need for tools
- Patch panel can be taken out of the box and snapped directly into the cabinet
- Fits into most manufacturers EIA-310-D standard racks or cabinets with square holes
- Rack-Snap inserts not sold separately



*Universal Panel with Rack-Snap Inserts*

## Category 5e Universal Patch Panels

- 6 port modules can be replaced easily if damaged during installation
- Front face provides an attractive, flush appearance
- Write-on labels provided for easy identification
- Self-adhesive labels are available for use with HellermannTyton TagPrint™ Pro software\*
- Universal panels are pre-assembled with T568B wiring however, they can be used for both T568A and T568B wiring configurations, thus eliminating the need for extra inventory
- HellermannTyton offers a very simple, easy-to-install rear cable manager which is recommended for all Category 5e installations
- Sturdy and smooth rolled edges
- Clear plastic channel protects PCB and allows easy viewing of wiring label



*Optional Rear Cable Manager*



*Optional Front Cable Manager*

### Product Selection

| Article No. | Part No.            | Type         | Description                                                                    | Pkg. Qty. |
|-------------|---------------------|--------------|--------------------------------------------------------------------------------|-----------|
| 853-20073   | <b>PP110C5E12</b>   | PP110C5E12   | Category 5e - 1U 12 Port 110 Universal Patch Panel                             | 1         |
| 853-20074   | <b>PP110C5E12V</b>  | PP110C5E12V  | Category 5e - 1U 12 Port 110 Vertical Universal Patch Panel                    | 1         |
| 853-20075   | <b>PP110C5E24</b>   | PP110C5E24   | Category 5e - 1U 24 Port 110 Universal Patch Panel                             | 1         |
| 853-20108   | <b>PP110C5E24RS</b> | PP110C5E24RS | Category 5e - 1U 24 Port 110 Universal Patch Panel <b>w/ Rack-Snap Inserts</b> | 1         |
| 853-20078   | <b>PP110C5E48</b>   | PP110C5E48   | Category 5e - 1U 48 Port 110 Universal Patch Panel                             | 1         |
| 853-20109   | <b>PP110C5E48RS</b> | PP110C5E48RS | Category 5e - 2U 48 Port Universal Patch Panel <b>w/ Rack-Snap Inserts</b>     | 1         |
| 853-20080   | <b>PP110C5E6</b>    | PP110C5E6    | CAT 5e Replacement Module - 6 pack                                             | 1         |
| 854-05139   | <b>TRCMU</b>        | TRCM         | Universal Rear Cable Manager                                                   | 1         |
| 859-35057   | <b>TFCM</b>         | TFCM         | Front Cable Manager                                                            | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

\*For thermal transfer printing: use HellermannTyton part number TAGPP2T6-822 series. For Laser printing: use TAGPP2-788 series. For use with Spirit® Printer: use label with HellermannTyton part number: TAGHTP-336



## Category 6 and 5e - 48 Port 1U Patch Panel

HellermannTyton's high density patch panels are specifically designed to provide high performance in a 1U format. These panels are robust and easy to install, providing double the density of a standard 1U patch panel. The built-in rear cable management design enables each cable to be securely fixed to the back of the panel.



### Product Selection

| Article No. | Part No.     | Type         | Description                          | Pkg. Qty. |
|-------------|--------------|--------------|--------------------------------------|-----------|
| 853-50011   | PP110C6481U  | PP110C6481U  | Category 6 - 1U 48 Port Patch Panel  | 1         |
| 853-15047   | PP110C5E481U | PP110C5E481U | Category 5e - 1U 48 Port Patch Panel | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

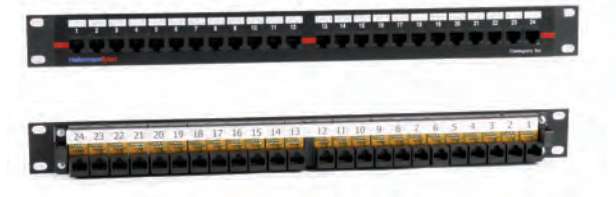


Visit [www.htnetwork.com](http://www.htnetwork.com) for further product information, drawings and to create a bill of material for your next project.

## Category 5e AlphaSnap Jack to Jack Patch Panels

With the same features as HellermannTyton's AlphaSnap 110 style patch panel, the Jack to Jack Patch Panel is configured with RJ45 jacks on both the front and rear of the panel and is ideal for applications with pre-terminated cables.

**ETL tested and approved for Category 5e Channel performance.**



| Product Selection |              |              |                                                   |           |
|-------------------|--------------|--------------|---------------------------------------------------|-----------|
| Article No.       | Part No.     | Type         | Description                                       | Pkg. Qty. |
| 853-20076         | PP110C5E24JJ | PP110C5E24JJ | Category 5e - 1U 24 Port Jack to Jack Patch Panel | 1         |
| 853-20079         | PP110C5E48JJ | PP110C5E48JJ | Category 5e - 2U 48 Port Jack to Jack Patch Panel | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Category 3 Patch Panel

This patch panel is Category 3 rated and backward compatible to "voice grade". It is available as a 1 rack unit, 50 port right-angled panel accepting 4 pairs per RJ-45 circuit. Blocks are Krone-style Punchdown.



| Product Selection |           |           |                                                   |           |
|-------------------|-----------|-----------|---------------------------------------------------|-----------|
| Article No.       | Part No.  | Type      | Description                                       | Pkg. Qty. |
| 853-00092         | PP110C350 | PP110C350 | Category 3 - 1U Voice Panel - 50 Pair Cables/RJ11 | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Modular Patch Panels

The modular patch panel is designed to accept HellermannTyton Category 6 and 5e UTP modular jacks and connectors, providing flexibility in multimedia installations. It allows the design of a custom panel specifically suited to different applications including coax, voice, audio, video and fiber. Once the connectors are snapped into the panel, they are flush with the front of the plate. These modular panels can be mounted to any standard EIA 19" rack, cabinet, or wall mount patch panel bracket. HellermannTyton pre-numbered modular patch panels are available in 12, 16, 24, 32 and 48 port configurations.

HellermannTyton's 1U modular panel allows for increased density in one rack space. The panel also makes patch cord insertion and removal easy by having jacks mounted sideways in the panel.

### Product Selection

| Article No. | Part No.             | Type          | Description                         | Rack Units | Pkg. Qty. |
|-------------|----------------------|---------------|-------------------------------------|------------|-----------|
| 853-19200   | <b>P108-12-MOD</b>   | P108-12-MOD   | Blank Modular Patch Panel - 12 Port | 1U         | 1         |
| 853-19201   | <b>P108-16-MOD</b>   | P108-16-MOD   | Blank Modular Patch Panel - 16 Port | 1U         | 1         |
| 853-19203   | <b>P108-24-MOD1U</b> | P108-24-MOD1U | Blank Modular Patch Panel - 24 Port | 1U         | 1         |
| 853-19202   | <b>P108-24-MOD</b>   | P108-24-MOD   | Blank Modular Patch Panel - 24 Port | 2U         | 1         |
| 853-19204   | <b>P108-32-MOD</b>   | P108-32-MOD   | Blank Modular Patch Panel - 32 Port | 2U         | 1         |
| 853-19205   | <b>P108-48-MOD</b>   | P108-48-MOD   | Blank Modular Patch Panel - 48 Port | 3U         | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Category 6 Rated 110 Wiring Blocks

Category 6 - 110 wiring blocks are designed to support Category 6 cabling applications as specified in ANSI/TIA-568-C with unique spacing that provides superior NEXT performance. These wiring blocks can be used as a consolidation point in HellermannTyton's GigaBand channel. A standard punch down tool or HellermannTyton's 4 pair, Category 6 - 110 tool can be used to terminate the blocks. They are available in a number of different configurations for specific connectivity applications. To run cable behind the blocks or for wall mounting, the Category 6 - 48, 96 and 288 pair blocks are available with standoff legs while the 48 and 96 pair blocks are offered in a low profile style without legs. The clips are available only in a 4 pair configuration for optimal performance. **ETL tested and approved for Category 6 Component Compliance.**



## Category 6 Rated 110 Block Kits

To minimize labor and time, HellermannTyton offers field installation kits. These kits include Category 6 - 110 wiring blocks with standoff legs, 4 pair clips, and identification label holders with white labels.



## Category 6 Rated Rack Mountable 110 Block Kits

For applications that require fastening a 110 block to a 19" rack or cabinet, HellermannTyton provides the 96 pair, 192 pair and 288 pair block kits in a rack mountable version. The 96 pair kit includes a cable trough for cable management.



| Product Selection             |                     |              |                                                                                        |           |
|-------------------------------|---------------------|--------------|----------------------------------------------------------------------------------------|-----------|
| Article No.                   | Part No.            | Type         | Description                                                                            | Pkg. Qty. |
| 110 Blocks                    |                     |              |                                                                                        |           |
| 853-19228                     | <b>T110WB48</b>     | T110WB48     | 48 Pair 110 Wiring Block Base                                                          | 1         |
| 853-19234                     | <b>T110WBL48</b>    | T110WBL48    | 48 Pair 110 Wiring Block Base with Legs                                                | 1         |
| 853-19230                     | <b>T110WB96</b>     | T110WB96     | 96 Pair 110 Wiring Block Base                                                          | 1         |
| 853-19236                     | <b>T110WBL96</b>    | T110WBL96    | 96 Pair 110 Wiring Block Base with Legs                                                | 1         |
| 853-19232                     | <b>T110WBL288</b>   | T110WBL288   | 288 Pair 110 Wiring Block Base with Legs                                               | 1         |
| 853-19208                     | <b>T11046</b>       | T11046       | Category 6 - 4 Pair Clip                                                               | 10        |
| 853-19210                     | <b>T110CT</b>       | T110CT       | Cable Trough                                                                           | 1         |
| 853-19211                     | <b>T110CTL</b>      | T110CTL      | Cable Trough with Legs                                                                 | 1         |
| 110 Block Kits                |                     |              |                                                                                        |           |
| 853-19218                     | <b>T110KIT964</b>   | T110KIT964   | 96 Pair with 4 Pair Clips Installation Kit                                             | 1         |
| 853-19215                     | <b>T110KIT2884</b>  | T110KIT2884  | 288 Pair 110 Block with 4 Pair Clips Installation Kit                                  | 1         |
| 110 Block Rack Mountable Kits |                     |              |                                                                                        |           |
| 853-19225                     | <b>T110RM96-4CT</b> | T110RM96-4CT | 2U Rack Mount 96 Pair 110 Block Kit w/ 4 Pair Connecting Block Clips with Cable Trough | 1         |
| 853-19221                     | <b>T110RM192-4</b>  | T110RM192-4  | 2U Rack Mount 192 Pair 110 Block Kit w/ 4 Pair Connecting Block Clips                  | 1         |
| 853-19222                     | <b>T110RM288-4</b>  | T110RM288-4  | 3U Rack Mount 288 Pair 110 Block Kit w/ 4 Pair Connecting Block Clips                  | 1         |
| 853-19226                     | <b>T110RMCT</b>     | T110RMCT     | 1U Rack Mount Cable Trough                                                             | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. HellermannTyton's TagPrint Pro software can print labels using Tag 100 series. See Identification Section for more details. For identification purposes, HellermannTyton provides termination hardware labels and a plastic ID holder. Label colors include (OR) orange, (GR) green, (PL) purple, (GY) gray, (BL) blue, (BR) brown, (YL) yellow, (RD) red, and (WT) white.



## Category 5e Rated 110 Wiring Blocks

HellermannTyton's 110 wiring blocks provide a dependable, long term system to support data and voice applications. These Category 5e blocks offer an easy-to-install and economical solution for network managers. They are available in a number of different configurations for specific connectivity applications. To run cable behind the blocks or for wall mounting, the Category 5e - 50, 100 and 300 pair blocks are available with standoff legs while the 50 and 100 pair blocks are offered in a low profile style without legs.

## Category 5e Rated 110 Block Kits

To minimize labor and time, HellermannTyton offers field installation kits. These kits include 110 wiring blocks with standoff legs, 4 or 5 pair clips, and identification label holders with white labels.



## Category 5e Rated Rack Mountable 110 Block Kits

For applications that require fastening a 110 block to a 19" rack or cabinet, HellermannTyton provides the 100 pair and 300 pair blocks in a rack mountable version. To organize and route the cable, HellermannTyton provides a rack mount cable trough.

| Product Selection             |                      |               |                                                                   |           |
|-------------------------------|----------------------|---------------|-------------------------------------------------------------------|-----------|
| Article No.                   | Part No.             | Type          | Description                                                       | Pkg. Qty. |
| 110 Blocks                    |                      |               |                                                                   |           |
| 853-19229                     | <b>T110WB50</b>      | T110WB50      | 50 Pair 110 Wiring Block                                          | 1         |
| 853-19235                     | <b>T110WBL50</b>     | T110WBL50     | 50 Pair 110 Wiring Block Base with Legs                           | 1         |
| 853-19227                     | <b>T110WB100</b>     | T110WB100     | 100 Pair 110 Wiring Block                                         | 1         |
| 853-19231                     | <b>T110WBL100</b>    | T110WBL100    | 100 Pair 110 Wiring Block with Legs                               | 1         |
| 853-19233                     | <b>T110WBL300</b>    | T110WBL300    | 300 Pair 110 Wiring Block with Legs                               | 1         |
| 853-19206                     | <b>T1103</b>         | T1103         | 3 Pair Clip                                                       | 10        |
| 853-19207                     | <b>T1104</b>         | T1104         | 4 Pair Clip                                                       | 10        |
| 853-19209                     | <b>T1105</b>         | T1105         | 5 Pair Clip                                                       | 10        |
| 853-19210                     | <b>T110CT</b>        | T110CT        | Cable Trough                                                      | 1         |
| 853-19211                     | <b>T110CTL</b>       | T110CTL       | Cable Trough with Legs                                            | 1         |
| 853-19212                     | <b>T110ID</b>        | T110ID        | Clear Plastic ID Holder                                           | 6         |
| 110 Block Kits                |                      |               |                                                                   |           |
| 853-19239                     | <b>T110KIT504WB</b>  | T110KIT504WB  | 50 Pair with 4 Pair Clips Installation Kit                        | 1         |
| 853-19240                     | <b>T110KIT505WB</b>  | T110KIT505WB  | 50 Pair with 5 Pair Clips Installation Kit                        | 1         |
| 853-19237                     | <b>T110KIT1004WB</b> | T110KIT1004WB | 100 Pair with 4 Pair Clips Installation Kit                       | 1         |
| 853-19213                     | <b>T110KIT1004</b>   | T110KIT1004   | 100 Pair with 4 Pair Clips Installation Kit with Legs             | 1         |
| 853-19238                     | <b>T110KIT1005WB</b> | T110KIT1005WB | 100 Pair with 5 Pair Clips Installation Kit                       | 1         |
| 853-19214                     | <b>T110KIT1005</b>   | T110KIT1005   | 100 Pair with 5 Pair Clips Installation Kit with Legs             | 1         |
| 853-19216                     | <b>T110KIT3004</b>   | T110KIT3004   | 300 Pair with 4 Pair Clips Installation Kit with Legs             | 1         |
| 853-19217                     | <b>T110KIT3005</b>   | T110KIT3005   | 300 Pair with 5 Pair Clips Installation Kit with Legs             | 1         |
| 110 Block Rack Mountable Kits |                      |               |                                                                   |           |
| 853-19219                     | <b>T110RM100-4</b>   | T110RM100-4   | 1U Rack Mount 100 Pair 110 Block w/ 4 Pair Connecting Block Clips | 1         |
| 853-19220                     | <b>T110RM100-5</b>   | T110RM100-5   | 1U Rack Mount 100 Pair 110 Block w/ 4 Pair Connecting Block Clips | 1         |
| 853-19223                     | <b>T110RM300-4</b>   | T110RM300-4   | 3U Rack Mount 300 Pair 110 Block w/ 4 Pair Connecting Block Clips | 1         |
| 853-19224                     | <b>T110RM300-5</b>   | T110RM300-5   | 3U Rack Mount 300 Pair 110 Block w/ 5 Pair Connecting Block Clips | 1         |
| 853-19226                     | <b>T110RMCT</b>      | T110RMCT      | 1U Rack Mount Cable Trough                                        | 1         |

HellermannTyton's TagPrint Pro software can print labels using Tag 100 series. See Identification Section for more details. For identification purposes, HellermannTyton provides termination hardware labels and a plastic ID holder to protect them. Label colors include (OR) orange, (GR) green, (PL) purple, (GY) gray, (BL) blue, (BR) brown, (YL) yellow, (RD) red, and (WT) white.

## Category 5 Rated 66 Blocks

HellermannTyton's Category 5 rated 66 block is used in equipment rooms and wiring closets. These blocks are used for connecting voice and data cables to premise equipment. Offered in a 50 pair configuration, the 66 block is easy to install, reliable, and economical. HellermannTyton offers a standoff bracket as a method of mounting the 66 block. Molded from a flame-retardant thermoplastic, the 89D bracket is open on the top and bottom, enabling the insertion of cable before snapping on the block. The network interface block is designed for use at the demarcation point – it is a 66 block with one female, prewired 25 pair connector located on the right side and is included with an 89D mounting bracket, as well as a snap-on, orange hinged cover to designate the network interface point.

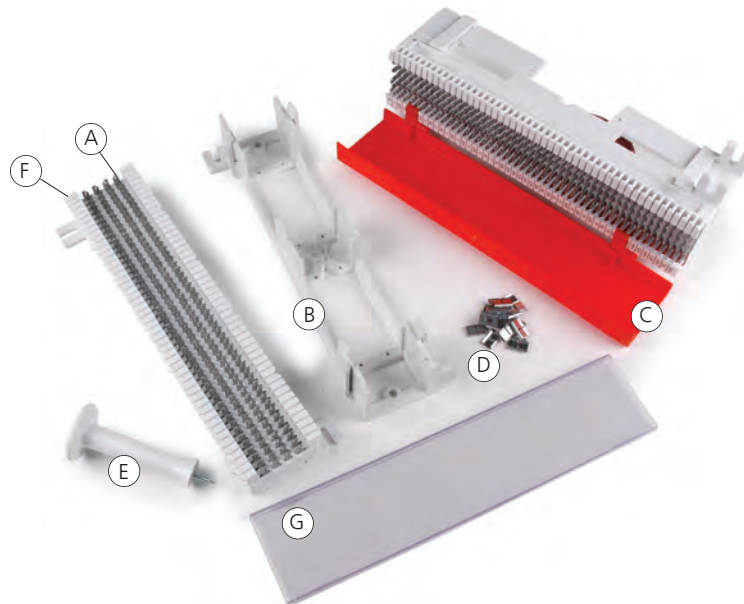
### 66 Block Accessories

- The bridging clip is designed to make a common connection on the 66 block adjacent quick clips. Formed from a tin plated "grade A" copper alloy, the clips require no tools for installation.
- To keep the cable organized and routed properly, a wire distribution spool with a #10 wood screw is offered. The spool mounts easily on cross connect frames or backboards.
- Designation strips are available to identify the circuits on the 66 block. Easily snapped onto the side of the block, these white strips provide a platform for HellermannTyton labels, or can be written upon with a pen.
- Plastic covers are offered for the 66 connecting blocks to protect the wiring. They are molded of self-extinguishing clear plastic that easily snaps onto the block.

#### Product Selection

| Article No. | Part No.              | Type           | Description                                     | Height | Width | Depth | Pkg. Qty. |
|-------------|-----------------------|----------------|-------------------------------------------------|--------|-------|-------|-----------|
| 854-44311   | <b>T66M1-50</b>       | T66M1-50       | (A) 66 Clip Connecting Block 50 Pair            | 10"    | 2.56" | 1.2"  | 1         |
| 854-44315   | <b>T89D</b>           | T89D           | (B) Standoff Bracket for 66 Blocks              | 10"    | 3.4"  | 1.5"  | 1         |
| 854-44314   | <b>T700A-66-B1-25</b> | T700A-66-B1-25 | (C) Network Interface Block 25 Pair             | 10"    | 3.4"  | 2.75" | 1         |
| 854-44419   | <b>TSA1</b>           | TSA1           | (D) Bridging Clips                              | .25"   | .5"   | -     | 25        |
| 854-44313   | <b>T66WDS</b>         | T66WDS         | (E) Wire Distribution Spool with #10 Wood Screw | 1.68"  | 1.68" | 2.95" | 10        |
| 854-44310   | <b>T66DS</b>          | T66DS          | (F) 66 Block Designation Strip                  | 10"    | .5"   | -     | 2         |
| 854-44312   | <b>T66MC4</b>         | T66MC4         | (G) Plastic Cover for 66 Block                  | 10"    | 2.56" | -     | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



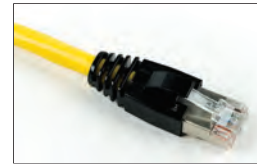
## Category 6A Shielded Patch Cords

HellermannTyton Category 6A shielded patch cords feature foil shielding to ensure signal integrity and a strain-relief boot that helps prevent tangling and excessive bending while reducing stress on the cable. Patch cords comply with all industry standards including ANSI/TIA-568-C.2.

### Product Selection

| Article No. | Part No.   | Type  | Length | Color  | Pkg. Qty. |
|-------------|------------|-------|--------|--------|-----------|
| 851-30171   | PCS6ABLU3  | PCS6A | 3ft    | Blue   | 1         |
| 851-30172   | PCS6ABLU5  | PCS6A | 5ft    | Blue   | 1         |
| 851-30173   | PCS6ABLU7  | PCS6A | 7ft    | Blue   | 1         |
| 851-30174   | PCS6ABLU10 | PCS6A | 10ft   | Blue   | 1         |
| 851-30175   | PCS6ABLU14 | PCS6A | 14ft   | Blue   | 1         |
| 851-30176   | PCS6ABLU20 | PCS6A | 20ft   | Blue   | 1         |
| 851-30195   | PCS6AYEL3  | PCS6A | 3ft    | Yellow | 1         |
| 851-30196   | PCS6AYEL5  | PCS6A | 5ft    | Yellow | 1         |
| 851-30197   | PCS6AYEL7  | PCS6A | 7ft    | Yellow | 1         |
| 851-30198   | PCS6AYEL10 | PCS6A | 10ft   | Yellow | 1         |
| 851-30199   | PCS6AYEL14 | PCS6A | 14ft   | Yellow | 1         |
| 851-30200   | PCS6AYEL20 | PCS6A | 20ft   | Yellow | 1         |
| 851-30183   | PCS6AGRN3  | PCS6A | 3ft    | Green  | 1         |
| 851-30184   | PCS6AGRN5  | PCS6A | 5ft    | Green  | 1         |
| 851-30185   | PCS6AGRN7  | PCS6A | 7ft    | Green  | 1         |
| 851-30186   | PCS6AGRN10 | PCS6A | 10ft   | Green  | 1         |
| 851-30187   | PCS6AGRN14 | PCS6A | 14ft   | Green  | 1         |
| 851-30188   | PCS6AGRN20 | PCS6A | 20ft   | Green  | 1         |
| 851-30189   | PCS6ARED3  | PCS6A | 3ft    | Red    | 1         |
| 851-30190   | PCS6ARED5  | PCS6A | 5ft    | Red    | 1         |
| 851-30191   | PCS6ARED7  | PCS6A | 7ft    | Red    | 1         |
| 851-30192   | PCS6ARED10 | PCS6A | 10ft   | Red    | 1         |
| 851-30193   | PCS6ARED14 | PCS6A | 14ft   | Red    | 1         |
| 851-30194   | PCS6ARED20 | PCS6A | 20ft   | Red    | 1         |
| 851-30159   | PCS6AGRY3  | PCS6A | 3ft    | Gray   | 1         |
| 851-30160   | PCS6AGRY5  | PCS6A | 5ft    | Gray   | 1         |
| 851-30161   | PCS6AGRY7  | PCS6A | 7ft    | Gray   | 1         |
| 851-30162   | PCS6AGRY10 | PCS6A | 10ft   | Gray   | 1         |
| 851-30163   | PCS6AGRY14 | PCS6A | 14ft   | Gray   | 1         |
| 851-30164   | PCS6AGRY20 | PCS6A | 20ft   | Gray   | 1         |
| 851-30177   | PCS6AW3    | PCS6A | 3ft    | White  | 1         |
| 851-30178   | PCS6AW5    | PCS6A | 5ft    | White  | 1         |
| 851-30179   | PCS6AW7    | PCS6A | 7ft    | White  | 1         |
| 851-30180   | PCS6AW10   | PCS6A | 10ft   | White  | 1         |
| 851-30181   | PCS6AW14   | PCS6A | 14ft   | White  | 1         |
| 851-30182   | PCS6AW20   | PCS6A | 20ft   | White  | 1         |
| 851-30165   | PCS6ABLK3  | PCS6A | 3ft    | Black  | 1         |
| 851-30166   | PCS6ABLK5  | PCS6A | 5ft    | Black  | 1         |
| 851-30167   | PCS6ABLK7  | PCS6A | 7ft    | Black  | 1         |
| 851-30168   | PCS6ABLK10 | PCS6A | 10ft   | Black  | 1         |
| 851-30169   | PCS6ABLK14 | PCS6A | 14ft   | Black  | 1         |
| 851-30170   | PCS6ABLK20 | PCS6A | 20ft   | Black  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Category 6 Shielded Patch Cords

HellermannTyton Category 6 shielded patch cords feature foil shielding to ensure signal integrity and a strain-relief boot that helps prevent tangling and excessive bending while reducing stress on the cable. Patch cords comply with all industry standards including ANSI/TIA-568-C.2.

### Product Selection

| Article No. | Part No.  | Type | Length | Color  | Pkg. Qty. |
|-------------|-----------|------|--------|--------|-----------|
| 851-19418   | PCS6BLU3  | PCS6 | 3ft    | Blue   | 1         |
| 851-19419   | PCS6BLU5  | PCS6 | 5ft    | Blue   | 1         |
| 851-19420   | PCS6BLU7  | PCS6 | 7ft    | Blue   | 1         |
| 851-19421   | PCS6BLU10 | PCS6 | 10ft   | Blue   | 1         |
| 851-19422   | PCS6BLU14 | PCS6 | 14ft   | Blue   | 1         |
| 851-19423   | PCS6BLU20 | PCS6 | 20ft   | Blue   | 1         |
| 851-19448   | PCS6YEL3  | PCS6 | 3ft    | Yellow | 1         |
| 851-19449   | PCS6YEL5  | PCS6 | 5ft    | Yellow | 1         |
| 851-19450   | PCS6YEL7  | PCS6 | 7ft    | Yellow | 1         |
| 851-19451   | PCS6YEL10 | PCS6 | 10ft   | Yellow | 1         |
| 851-19452   | PCS6YEL14 | PCS6 | 14ft   | Yellow | 1         |
| 851-19453   | PCS6YEL20 | PCS6 | 20ft   | Yellow | 1         |
| 851-19442   | PCS6GRN3  | PCS6 | 3ft    | Green  | 1         |
| 851-19443   | PCS6GRN5  | PCS6 | 5ft    | Green  | 1         |
| 851-19444   | PCS6GRN7  | PCS6 | 7ft    | Green  | 1         |
| 851-19445   | PCS6GRN10 | PCS6 | 10ft   | Green  | 1         |
| 851-19446   | PCS6GRN14 | PCS6 | 14ft   | Green  | 1         |
| 851-19447   | PCS6GRN20 | PCS6 | 20ft   | Green  | 1         |
| 851-19430   | PCS6RED3  | PCS6 | 3ft    | Red    | 1         |
| 851-19431   | PCS6RED5  | PCS6 | 5ft    | Red    | 1         |
| 851-19432   | PCS6RED7  | PCS6 | 7ft    | Red    | 1         |
| 851-19433   | PCS6RED10 | PCS6 | 10ft   | Red    | 1         |
| 851-19434   | PCS6RED14 | PCS6 | 14ft   | Red    | 1         |
| 851-19435   | PCS6RED20 | PCS6 | 20ft   | Red    | 1         |
| 851-15743   | PCS6GRY3  | PCS6 | 3ft    | Gray   | 1         |
| 851-15744   | PCS6GRY5  | PCS6 | 5ft    | Gray   | 1         |
| 851-15742   | PCS6GRY7  | PCS6 | 7ft    | Gray   | 1         |
| 851-15771   | PCS6GRY10 | PCS6 | 10ft   | Gray   | 1         |
| 851-15749   | PCS6GRY14 | PCS6 | 14ft   | Gray   | 1         |
| 851-15722   | PCS6GRY20 | PCS6 | 20ft   | Gray   | 1         |
| 851-19436   | PCS6W3    | PCS6 | 3ft    | White  | 1         |
| 851-19437   | PCS6W5    | PCS6 | 5ft    | White  | 1         |
| 851-19438   | PCS6W7    | PCS6 | 7ft    | White  | 1         |
| 851-19439   | PCS6W10   | PCS6 | 10ft   | White  | 1         |
| 851-19440   | PCS6W14   | PCS6 | 14ft   | White  | 1         |
| 851-19441   | PCS6W20   | PCS6 | 20ft   | White  | 1         |
| 851-19424   | PCS6BLK3  | PCS6 | 3ft    | Black  | 1         |
| 851-19425   | PCS6BLK5  | PCS6 | 5ft    | Black  | 1         |
| 851-19426   | PCS6BLK7  | PCS6 | 7ft    | Black  | 1         |
| 851-19427   | PCS6BLK10 | PCS6 | 10ft   | Black  | 1         |
| 851-19428   | PCS6BLK14 | PCS6 | 14ft   | Black  | 1         |
| 851-19429   | PCS6BLK20 | PCS6 | 20ft   | Black  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



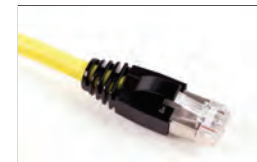
## Category 6 Shielded Patch Cords - GSA Approved

HellermannTyton Category 6 shielded patch cords feature foil shielding to ensure signal integrity and a strain-relief boot that helps prevent tangling and excessive bending while reducing stress on the cable. Patch cords comply with all industry standards including ANSI/TIA-568-C.2.

## Product Selection

| Article No. | Part No.   | Type  | Length | Color  | Pkg. Qty. |
|-------------|------------|-------|--------|--------|-----------|
| 851-19505   | PCS6BLU1G  | PCS6G | 1ft    | Blue   | 1         |
| 851-19460   | PCS6BLU3G  | PCS6G | 3ft    | Blue   | 1         |
| 851-19461   | PCS6BLU5G  | PCS6G | 5ft    | Blue   | 1         |
| 851-19462   | PCS6BLU7G  | PCS6G | 7ft    | Blue   | 1         |
| 851-19463   | PCS6BLU10G | PCS6G | 10ft   | Blue   | 1         |
| 851-19464   | PCS6BLU14G | PCS6G | 14ft   | Blue   | 1         |
| 851-19465   | PCS6BLU20G | PCS6G | 20ft   | Blue   | 1         |
| 851-19490   | PCS6YEL3G  | PCS6G | 3ft    | Yellow | 1         |
| 851-19491   | PCS6YEL5G  | PCS6G | 5ft    | Yellow | 1         |
| 851-19492   | PCS6YEL7G  | PCS6G | 7ft    | Yellow | 1         |
| 851-19493   | PCS6YEL10G | PCS6G | 10ft   | Yellow | 1         |
| 851-19494   | PCS6YEL14G | PCS6G | 14ft   | Yellow | 1         |
| 851-19495   | PCS6YEL20G | PCS6G | 20ft   | Yellow | 1         |
| 851-19484   | PCS6GRN3G  | PCS6G | 3ft    | Green  | 1         |
| 851-19485   | PCS6GRN5G  | PCS6G | 5ft    | Green  | 1         |
| 851-19486   | PCS6GRN7G  | PCS6G | 7ft    | Green  | 1         |
| 851-19487   | PCS6GRN10G | PCS6G | 10ft   | Green  | 1         |
| 851-19488   | PCS6GRN14G | PCS6G | 14ft   | Green  | 1         |
| 851-19489   | PCS6GRN20G | PCS6G | 20ft   | Green  | 1         |
| 851-19472   | PCS6RED3G  | PCS6G | 3ft    | Red    | 1         |
| 851-19473   | PCS6RED5G  | PCS6G | 5ft    | Red    | 1         |
| 851-19474   | PCS6RED7G  | PCS6G | 7ft    | Red    | 1         |
| 851-19475   | PCS6RED10G | PCS6G | 10ft   | Red    | 1         |
| 851-19476   | PCS6RED14G | PCS6G | 14ft   | Red    | 1         |
| 851-19477   | PCS6RED20G | PCS6G | 20ft   | Red    | 1         |
| 851-19504   | PCS6GRY1G  | PCS6G | 1ft    | Gray   | 1         |
| 851-19454   | PCS6GRY3G  | PCS6G | 3ft    | Gray   | 1         |
| 851-19455   | PCS6GRY5G  | PCS6G | 5ft    | Gray   | 1         |
| 851-19456   | PCS6GRY7G  | PCS6G | 7ft    | Gray   | 1         |
| 851-19457   | PCS6GRY10G | PCS6G | 10ft   | Gray   | 1         |
| 851-19458   | PCS6GRY14G | PCS6G | 14ft   | Gray   | 1         |
| 851-19459   | PCS6GRY20G | PCS6G | 20ft   | Gray   | 1         |
| 851-19506   | PCS6W1G    | PCS6G | 1ft    | White  | 1         |
| 851-19478   | PCS6W3G    | PCS6G | 3ft    | White  | 1         |
| 851-19479   | PCS6W5G    | PCS6G | 5ft    | White  | 1         |
| 851-19480   | PCS6W7G    | PCS6G | 7ft    | White  | 1         |
| 851-19481   | PCS6W10G   | PCS6G | 10ft   | White  | 1         |
| 851-19482   | PCS6W14G   | PCS6G | 14ft   | White  | 1         |
| 851-19483   | PCS6W20G   | PCS6G | 20ft   | White  | 1         |
| 851-19507   | PCS6BLK1G  | PCS6G | 1ft    | Black  | 1         |
| 851-19466   | PCS6BLK3G  | PCS6G | 3ft    | Black  | 1         |
| 851-19467   | PCS6BLK5G  | PCS6G | 5ft    | Black  | 1         |
| 851-19468   | PCS6BLK7G  | PCS6G | 7ft    | Black  | 1         |
| 851-19469   | PCS6BLK10G | PCS6G | 10ft   | Black  | 1         |
| 851-19470   | PCS6BLK14G | PCS6G | 14ft   | Black  | 1         |
| 851-19471   | PCS6BLK20G | PCS6G | 20ft   | Black  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Category 6 GigaBand® Patch Cords - Component Compliant

HellermannTyton Category 6 patch cords offer a slim-line boot. This molded strain-relief boot helps prevent tangling and excessive bending while reducing stress on the cable. Patch cords comply with all industry standards including ANSI/TIA-568-C.2.

### Product Selection

| Article No. | Part No.   | Type  | Length | Color  | Pkg. Qty. |
|-------------|------------|-------|--------|--------|-----------|
| 851-19497   | PC6BLU1SC  | PC6SC | 1ft    | Blue   | 1         |
| 851-19256   | PC6BLU3SC  | PC6SC | 3ft    | Blue   | 1         |
| 851-19257   | PC6BLU5SC  | PC6SC | 5ft    | Blue   | 1         |
| 851-19258   | PC6BLU7SC  | PC6SC | 7ft    | Blue   | 1         |
| 851-19259   | PC6BLU10SC | PC6SC | 10ft   | Blue   | 1         |
| 851-19260   | PC6BLU14SC | PC6SC | 14ft   | Blue   | 1         |
| 851-19261   | PC6BLU20SC | PC6SC | 20ft   | Blue   | 1         |
| 851-19286   | PC6YEL3SC  | PC6SC | 3ft    | Yellow | 1         |
| 851-19287   | PC6YEL5SC  | PC6SC | 5ft    | Yellow | 1         |
| 851-19288   | PC6YEL7SC  | PC6SC | 7ft    | Yellow | 1         |
| 851-19289   | PC6YEL10SC | PC6SC | 10ft   | Yellow | 1         |
| 851-19290   | PC6YEL14SC | PC6SC | 14ft   | Yellow | 1         |
| 851-19291   | PC6YEL20SC | PC6SC | 20ft   | Yellow | 1         |
| 851-19280   | PC6GRN3SC  | PC6SC | 3ft    | Green  | 1         |
| 851-19281   | PC6GRN5SC  | PC6SC | 5ft    | Green  | 1         |
| 851-19282   | PC6GRN7SC  | PC6SC | 7ft    | Green  | 1         |
| 851-19283   | PC6GRN10SC | PC6SC | 10ft   | Green  | 1         |
| 851-19284   | PC6GRN14SC | PC6SC | 14ft   | Green  | 1         |
| 851-19285   | PC6GRN20SC | PC6SC | 20ft   | Green  | 1         |
| 851-19268   | PC6RED3SC  | PC6SC | 3ft    | Red    | 1         |
| 851-19269   | PC6RED5SC  | PC6SC | 5ft    | Red    | 1         |
| 851-19270   | PC6RED7SC  | PC6SC | 7ft    | Red    | 1         |
| 851-19271   | PC6RED10SC | PC6SC | 10ft   | Red    | 1         |
| 851-19272   | PC6RED14SC | PC6SC | 14ft   | Red    | 1         |
| 851-19273   | PC6RED20SC | PC6SC | 20ft   | Red    | 1         |
| 851-19496   | PC6GRY1SC  | PC6SC | 1ft    | Gray   | 1         |
| 851-19250   | PC6GRY3SC  | PC6SC | 3ft    | Gray   | 1         |
| 851-19251   | PC6GRY5SC  | PC6SC | 5ft    | Gray   | 1         |
| 851-19252   | PC6GRY7SC  | PC6SC | 7ft    | Gray   | 1         |
| 851-19253   | PC6GRY10SC | PC6SC | 10ft   | Gray   | 1         |
| 851-19254   | PC6GRY14SC | PC6SC | 14ft   | Gray   | 1         |
| 851-19255   | PC6GRY20SC | PC6SC | 20ft   | Gray   | 1         |
| 851-19498   | PC6W1SC    | PC6SC | 1ft    | White  | 1         |
| 851-19274   | PC6W3SC    | PC6SC | 3ft    | White  | 1         |
| 851-19275   | PC6W5SC    | PC6SC | 5ft    | White  | 1         |
| 851-19276   | PC6W7SC    | PC6SC | 7ft    | White  | 1         |
| 851-19277   | PC6W10SC   | PC6SC | 10ft   | White  | 1         |
| 851-19278   | PC6W14SC   | PC6SC | 14ft   | White  | 1         |
| 851-19279   | PC6W20SC   | PC6SC | 20ft   | White  | 1         |
| 851-19499   | PC6BLK1SC  | PC6SC | 1ft    | Black  | 1         |
| 851-19262   | PC6BLK3SC  | PC6SC | 3ft    | Black  | 1         |
| 851-19263   | PC6BLK5SC  | PC6SC | 5ft    | Black  | 1         |
| 851-19264   | PC6BLK7SC  | PC6SC | 7ft    | Black  | 1         |
| 851-19265   | PC6BLK10SC | PC6SC | 10ft   | Black  | 1         |
| 851-19266   | PC6BLK14SC | PC6SC | 14ft   | Black  | 1         |
| 851-19267   | PC6BLK20SC | PC6SC | 20ft   | Black  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Category 6 GigaBand Patch Cords - Component Compliant - GSA Approved

HellermannTyton Category 6 patch cords offer a slim-line boot. This clear strain-relief boot helps prevent tangling and excessive bending while reducing stress on the cable. Patch cords comply with all industry standards including ANSI/TIA-568-C.2.

## Product Selection

| Article No. | Part No.    | Type   | Length | Color  | Pkg. Qty. |
|-------------|-------------|--------|--------|--------|-----------|
| 851-19501   | PC6BLU1SCG  | PC6SCG | 1ft    | Blue   | 1         |
| 851-19298   | PC6BLU3SCG  | PC6SCG | 3ft    | Blue   | 1         |
| 851-19299   | PC6BLU5SCG  | PC6SCG | 5ft    | Blue   | 1         |
| 851-19300   | PC6BLU7SCG  | PC6SCG | 7ft    | Blue   | 1         |
| 851-19301   | PC6BLU10SCG | PC6SCG | 10ft   | Blue   | 1         |
| 851-19302   | PC6BLU14SCG | PC6SCG | 14ft   | Blue   | 1         |
| 851-19303   | PC6BLU20SCG | PC6SCG | 20ft   | Blue   | 1         |
| 851-19328   | PC6YEL3SCG  | PC6SCG | 3ft    | Yellow | 1         |
| 851-19329   | PC6YEL5SCG  | PC6SCG | 5ft    | Yellow | 1         |
| 851-19330   | PC6YEL7SCG  | PC6SCG | 7ft    | Yellow | 1         |
| 851-19331   | PC6YEL10SCG | PC6SCG | 10ft   | Yellow | 1         |
| 851-19332   | PC6YEL14SCG | PC6SCG | 14ft   | Yellow | 1         |
| 851-19333   | PC6YEL20SCG | PC6SCG | 20ft   | Yellow | 1         |
| 851-19322   | PC6GRN3SCG  | PC6SCG | 3ft    | Green  | 1         |
| 851-19323   | PC6GRN5SCG  | PC6SCG | 5ft    | Green  | 1         |
| 851-19324   | PC6GRN7SCG  | PC6SCG | 7ft    | Green  | 1         |
| 851-19325   | PC6GRN10SCG | PC6SCG | 10ft   | Green  | 1         |
| 851-19326   | PC6GRN14SCG | PC6SCG | 14ft   | Green  | 1         |
| 851-19327   | PC6GRN20SCG | PC6SCG | 20ft   | Green  | 1         |
| 851-19310   | PC6RED3SCG  | PC6SCG | 3ft    | Red    | 1         |
| 851-19311   | PC6RED5SCG  | PC6SCG | 5ft    | Red    | 1         |
| 851-19312   | PC6RED7SCG  | PC6SCG | 7ft    | Red    | 1         |
| 851-19313   | PC6RED10SCG | PC6SCG | 10ft   | Red    | 1         |
| 851-19314   | PC6RED14SCG | PC6SCG | 14ft   | Red    | 1         |
| 851-19315   | PC6RED20SCG | PC6SCG | 20ft   | Red    | 1         |
| 851-19500   | PC6GRY1SCG  | PC6SCG | 1ft    | Gray   | 1         |
| 851-19292   | PC6GRY3SCG  | PC6SCG | 3ft    | Gray   | 1         |
| 851-19293   | PC6GRY5SCG  | PC6SCG | 5ft    | Gray   | 1         |
| 851-19294   | PC6GRY7SCG  | PC6SCG | 7ft    | Gray   | 1         |
| 851-19295   | PC6GRY10SCG | PC6SCG | 10ft   | Gray   | 1         |
| 851-19296   | PC6GRY14SCG | PC6SCG | 14ft   | Gray   | 1         |
| 851-19297   | PC6GRY20SCG | PC6SCG | 20ft   | Gray   | 1         |
| 851-19502   | PC6W1SCG    | PC6SCG | 1ft    | White  | 1         |
| 851-19316   | PC6W3SCG    | PC6SCG | 3ft    | White  | 1         |
| 851-19317   | PC6W5SCG    | PC6SCG | 5ft    | White  | 1         |
| 851-19318   | PC6W7SCG    | PC6SCG | 7ft    | White  | 1         |
| 851-19319   | PC6W10SCG   | PC6SCG | 10ft   | White  | 1         |
| 851-19320   | PC6W14SCG   | PC6SCG | 14ft   | White  | 1         |
| 851-19321   | PC6W20SCG   | PC6SCG | 20ft   | White  | 1         |
| 851-19503   | PC6BLK1SCG  | PC6SCG | 1ft    | Black  | 1         |
| 851-19304   | PC6BLK3SCG  | PC6SCG | 3ft    | Black  | 1         |
| 851-19305   | PC6BLK5SCG  | PC6SCG | 5ft    | Black  | 1         |
| 851-19306   | PC6BLK7SCG  | PC6SCG | 7ft    | Black  | 1         |
| 851-19307   | PC6BLK10SCG | PC6SCG | 10ft   | Black  | 1         |
| 851-19308   | PC6BLK14SCG | PC6SCG | 14ft   | Black  | 1         |
| 851-19309   | PC6BLK20SCG | PC6SCG | 20ft   | Black  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Category 6 Patch Cords - Channel Compliant

HellermannTyton Category 6 patch cords offer a slim-line boot. This molded strain-relief boot helps prevent tangling and excessive bending while reducing stress on the cable. Patch cords comply with all industry standards including ANSI/TIA-568-C.2.

### Product Selection

| Article No. | Part No.  | Type | Length | Color  | Pkg. Qty. |
|-------------|-----------|------|--------|--------|-----------|
| 851-19340   | PC6BLU3S  | PC6S | 3ft    | Blue   | 1         |
| 851-19341   | PC6BLU5S  | PC6S | 5ft    | Blue   | 1         |
| 851-19342   | PC6BLU7S  | PC6S | 7ft    | Blue   | 1         |
| 851-19343   | PC6BLU10S | PC6S | 10ft   | Blue   | 1         |
| 851-19344   | PC6BLU14S | PC6S | 14ft   | Blue   | 1         |
| 851-19345   | PC6BLU25S | PC6S | 25ft   | Blue   | 1         |
| 851-19370   | PC6YEL3S  | PC6S | 3ft    | Yellow | 1         |
| 851-19371   | PC6YEL5S  | PC6S | 5ft    | Yellow | 1         |
| 851-19372   | PC6YEL7S  | PC6S | 7ft    | Yellow | 1         |
| 851-19373   | PC6YEL10S | PC6S | 10ft   | Yellow | 1         |
| 851-19374   | PC6YEL14S | PC6S | 14ft   | Yellow | 1         |
| 851-19375   | PC6YEL25S | PC6S | 25ft   | Yellow | 1         |
| 851-19364   | PC6GRN3S  | PC6S | 3ft    | Green  | 1         |
| 851-19365   | PC6GRN5S  | PC6S | 5ft    | Green  | 1         |
| 851-19366   | PC6GRN7S  | PC6S | 7ft    | Green  | 1         |
| 851-19367   | PC6GRN10S | PC6S | 10ft   | Green  | 1         |
| 851-19368   | PC6GRN14S | PC6S | 14ft   | Green  | 1         |
| 851-19369   | PC6GRN25S | PC6S | 25ft   | Green  | 1         |
| 851-19352   | PC6RED3S  | PC6S | 3ft    | Red    | 1         |
| 851-19353   | PC6RED5S  | PC6S | 5ft    | Red    | 1         |
| 851-19354   | PC6RED7S  | PC6S | 7ft    | Red    | 1         |
| 851-19355   | PC6RED10S | PC6S | 10ft   | Red    | 1         |
| 851-19356   | PC6RED14S | PC6S | 14ft   | Red    | 1         |
| 851-19357   | PC6RED25S | PC6S | 25ft   | Red    | 1         |
| 851-19334   | PC6GRY3S  | PC6S | 3ft    | Gray   | 1         |
| 851-19335   | PC6GRY5S  | PC6S | 5ft    | Gray   | 1         |
| 851-19336   | PC6GRY7S  | PC6S | 7ft    | Gray   | 1         |
| 851-19337   | PC6GRY10S | PC6S | 10ft   | Gray   | 1         |
| 851-19338   | PC6GRY14S | PC6S | 14ft   | Gray   | 1         |
| 851-19339   | PC6GRY25S | PC6S | 25ft   | Gray   | 1         |
| 851-19358   | PC6W3S    | PC6S | 3ft    | White  | 1         |
| 851-19359   | PC6W5S    | PC6S | 5ft    | White  | 1         |
| 851-19360   | PC6W7S    | PC6S | 7ft    | White  | 1         |
| 851-19361   | PC6W10S   | PC6S | 10ft   | White  | 1         |
| 851-19362   | PC6W14S   | PC6S | 14ft   | White  | 1         |
| 851-19363   | PC6W25S   | PC6S | 25ft   | White  | 1         |
| 851-19346   | PC6BLK3S  | PC6S | 3ft    | Black  | 1         |
| 851-19347   | PC6BLK5S  | PC6S | 5ft    | Black  | 1         |
| 851-19348   | PC6BLK7S  | PC6S | 7ft    | Black  | 1         |
| 851-19349   | PC6BLK10S | PC6S | 10ft   | Black  | 1         |
| 851-19350   | PC6BLK14S | PC6S | 14ft   | Black  | 1         |
| 851-19351   | PC6BLK25S | PC6S | 25ft   | Black  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



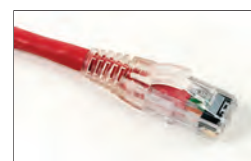
## Category 6 Patch Cords - Channel Compliant GSA Approved

HellermannTyton Category 6 patch cords offer a slim-line boot. This clear strain-relief boot helps prevent tangling and excessive bending while reducing stress on the cable. Patch cords comply with all industry standards including ANSI/TIA-568-C.2.

## Product Selection

| Article No. | Part No.   | Type  | Length | Color  | Pkg. Qty. |
|-------------|------------|-------|--------|--------|-----------|
| 851-19382   | PC6BLU3SG  | PC6SG | 3ft    | Blue   | 1         |
| 851-19383   | PC6BLU5SG  | PC6SG | 5ft    | Blue   | 1         |
| 851-19384   | PC6BLU7SG  | PC6SG | 7ft    | Blue   | 1         |
| 851-19385   | PC6BLU10SG | PC6SG | 10ft   | Blue   | 1         |
| 851-19386   | PC6BLU14SG | PC6SG | 14ft   | Blue   | 1         |
| 851-19387   | PC6BLU20SG | PC6SG | 20ft   | Blue   | 1         |
| 851-19412   | PC6YEL3SG  | PC6SG | 3ft    | Yellow | 1         |
| 851-19413   | PC6YEL5SG  | PC6G  | 5ft    | Yellow | 1         |
| 851-19414   | PC6YEL7SG  | PC6G  | 7ft    | Yellow | 1         |
| 851-19415   | PC6YEL10SG | PC6G  | 10ft   | Yellow | 1         |
| 851-19416   | PC6YEL14SG | PC6G  | 14ft   | Yellow | 1         |
| 851-19417   | PC6YEL20SG | PC6G  | 20ft   | Yellow | 1         |
| 851-19406   | PC6GRN3SG  | PC6SG | 3ft    | Green  | 1         |
| 851-19407   | PC6GRN5SG  | PC6SG | 5ft    | Green  | 1         |
| 851-19408   | PC6GRN7SG  | PC6SG | 7ft    | Green  | 1         |
| 851-19409   | PC6GRN10SG | PC6SG | 10ft   | Green  | 1         |
| 851-19410   | PC6GRN14SG | PC6SG | 14ft   | Green  | 1         |
| 851-19411   | PC6GRN20SG | PC6SG | 20ft   | Green  | 1         |
| 851-19394   | PC6RED3SG  | PC6SG | 3ft    | Red    | 1         |
| 851-19395   | PC6RED5SG  | PC6SG | 5ft    | Red    | 1         |
| 851-19396   | PC6RED7SG  | PC6SG | 7ft    | Red    | 1         |
| 851-19397   | PC6RED10SG | PC6SG | 10ft   | Red    | 1         |
| 851-19398   | PC6RED14SG | PC6SG | 14ft   | Red    | 1         |
| 851-19399   | PC6RED20SG | PC6SG | 20ft   | Red    | 1         |
| 851-19376   | PC6GRY3SG  | PC6SG | 3ft    | Gray   | 1         |
| 851-19377   | PC6GRY5SG  | PC6SG | 5ft    | Gray   | 1         |
| 851-19378   | PC6GRY7SG  | PC6SG | 7ft    | Gray   | 1         |
| 851-19379   | PC6GRY10SG | PC6SG | 10ft   | Gray   | 1         |
| 851-19380   | PC6GRY14SG | PC6SG | 14ft   | Gray   | 1         |
| 851-19381   | PC6GRY20SG | PC6SG | 20ft   | Gray   | 1         |
| 851-19400   | PC6W3SG    | PC6SG | 3ft    | White  | 1         |
| 851-19401   | PC6W5SG    | PC6SG | 5ft    | White  | 1         |
| 851-19402   | PC6W7SG    | PC6SG | 7ft    | White  | 1         |
| 851-19403   | PC6W10SG   | PC6SG | 10ft   | White  | 1         |
| 851-19404   | PC6W14SG   | PC6SG | 14ft   | White  | 1         |
| 851-19405   | PC6W20SG   | PC6SG | 20ft   | White  | 1         |
| 851-19388   | PC6BLK3SG  | PC6SG | 3ft    | Black  | 1         |
| 851-19389   | PC6BLK5SG  | PC6SG | 5ft    | Black  | 1         |
| 851-19390   | PC6BLK7SG  | PC6SG | 7ft    | Black  | 1         |
| 851-19391   | PC6BLK10SG | PC6SG | 10ft   | Black  | 1         |
| 851-19392   | PC6BLK14SG | PC6SG | 14ft   | Black  | 1         |
| 851-19393   | PC6BLK20SG | PC6SG | 20ft   | Black  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Category 5e Patch Cords

HellermannTyton's Category 5e patch cords feature a slim-line strain-relief boot, preventing excessive bending while reducing stress on the cable. The slim-line boot is flush to the modular plug, excellent for use in high density active equipment. The boot matches the color of the cable.

### Product Selection

| Article No. | Part No. | Type | Length | Color  | Pkg. Qty. |
|-------------|----------|------|--------|--------|-----------|
| 851-14211   | PCBLU1   | PC5E | 1ft    | Blue   | 1         |
| 851-14212   | PCBLU3   | PC5E | 3ft    | Blue   | 1         |
| 851-14213   | PCBLU5   | PC5E | 5ft    | Blue   | 1         |
| 851-14214   | PCBLU7   | PC5E | 7ft    | Blue   | 1         |
| 851-14215   | PCBLU10  | PC5E | 10ft   | Blue   | 1         |
| 851-14216   | PCBLU14  | PC5E | 14ft   | Blue   | 1         |
| 851-14217   | PCBLU25  | PC5E | 25ft   | Blue   | 1         |
| 851-14218   | PCYEL3   | PC5E | 3ft    | Yellow | 1         |
| 851-14219   | PCYEL5   | PC5E | 5ft    | Yellow | 1         |
| 851-14220   | PCYEL7   | PC5E | 7ft    | Yellow | 1         |
| 851-14221   | PCYEL10  | PC5E | 10ft   | Yellow | 1         |
| 851-14222   | PCYEL14  | PC5E | 14ft   | Yellow | 1         |
| 851-14223   | PCYEL25  | PC5E | 25ft   | Yellow | 1         |
| 851-14224   | PCGRN3   | PC5E | 3ft    | Green  | 1         |
| 851-14225   | PCGRN5   | PC5E | 5ft    | Green  | 1         |
| 851-14226   | PCGRN7   | PC5E | 7ft    | Green  | 1         |
| 851-14227   | PCGRN10  | PC5E | 10ft   | Green  | 1         |
| 851-14228   | PCGRN14  | PC5E | 14ft   | Green  | 1         |
| 851-14229   | PCGRN25  | PC5E | 25ft   | Green  | 1         |
| 851-14230   | PCRED3   | PC5E | 3ft    | Red    | 1         |
| 851-14231   | PCRED5   | PC5E | 5ft    | Red    | 1         |
| 851-14232   | PCRED7   | PC5E | 7ft    | Red    | 1         |
| 851-14233   | PCRED10  | PC5E | 10ft   | Red    | 1         |
| 851-14234   | PCRED14  | PC5E | 14ft   | Red    | 1         |
| 851-14235   | PCRED25  | PC5E | 25ft   | Red    | 1         |
| 851-14236   | PCGRY1   | PC5E | 1ft    | Gray   | 1         |
| 851-14237   | PCGRY3   | PC5E | 3ft    | Gray   | 1         |
| 851-14238   | PCGRY5   | PC5E | 5ft    | Gray   | 1         |
| 851-14239   | PCGRY7   | PC5E | 7ft    | Gray   | 1         |
| 851-14240   | PCGRY10  | PC5E | 10ft   | Gray   | 1         |
| 851-14241   | PCGRY14  | PC5E | 14ft   | Gray   | 1         |
| 851-14242   | PCGRY25  | PC5E | 25ft   | Gray   | 1         |
| 851-14206   | PCW3     | PC5E | 3ft    | White  | 1         |
| 851-14207   | PCW5     | PC5E | 5ft    | White  | 1         |
| 851-14208   | PCW7     | PC5E | 7ft    | White  | 1         |
| 851-14205   | PCW10    | PC5E | 10ft   | White  | 1         |
| 851-14209   | PCW14    | PC5E | 14ft   | White  | 1         |
| 851-14210   | PCW25    | PC5E | 25ft   | White  | 1         |
| 851-14243   | PCBLK3   | PC5E | 3ft    | Black  | 1         |
| 851-14244   | PCBLK5   | PC5E | 5ft    | Black  | 1         |
| 851-14245   | PCBLK7   | PC5E | 7ft    | Black  | 1         |
| 851-14246   | PCBLK10  | PC5E | 10ft   | Black  | 1         |
| 851-14247   | PCBLK14  | PC5E | 14ft   | Black  | 1         |
| 851-14248   | PCBLK25  | PC5E | 25ft   | Black  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Tools

### Termination Tools

#### IT110EX

- Expert, spring-loaded termination tool.
- Impact pressure-adjustment control for modifying impact settings.
- For use with HellermannTyton's 110 and 66 block blade
- Accepts all manufacturers' twist and lock style blades
- Non-slip handle provides a cushioned heel
- Latched area on handle for storing the replacement blades
- Offers a hook and a screwdriver to aid in the installation process. The multi-functional hook can separate twisted pair wire, strip insulation, and cut wire. The screwdriver doubles as a IDC contact insertion tool
- Optional light (IT110L) for dimly lit applications can be attached directly to the tool, the light is supplied with three batteries



IT110EX

#### IT1105

- Combination impact tool used to seat and cut UTP cable on a 110 wiring block or to seat 4 and 5 pair 110 connecting blocks
- Equipped with an ergonomic rubber handle that promotes a non-slip user friendly grip



IT1105

### Wire Strippers

#### HTEXWS

- Expert wire stripping tool that is both a cable cutter and stripper
- Fully adjustable by a thumb screw
- Cut and strip almost any cable including: UTP/STP data cable; 4, 6, and 8 conductor flat satin cable; 25 pair multi-conductor cable; 14-8 AWG hook-up wire; and coaxial cable
- Compact and can easily slip into a pocket. Also allows for attaching to keychain or wrist strap



HTEXWS

#### HTWS

- Compact wire stripper and an IDC insertion tool



HTWS

### Punch Down Installation Palm Tool

- Fits ergonomically in the hand to ease the punch down process of modular jacks, as well as the individual ports in the Category 5e and Category 6 AlphaSnap patch panels



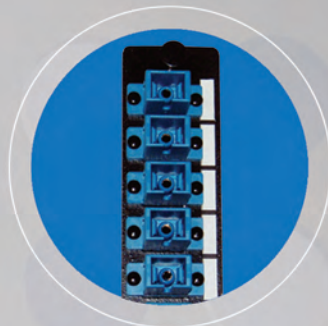
PIPT

| Product Selection |           |           |                                                |           |
|-------------------|-----------|-----------|------------------------------------------------|-----------|
| Article No.       | Part No.  | Type      | Description                                    | Pkg. Qty. |
| 854-44208         | IT110EX   | IT110EX   | Expert Impact Tool with 110 Blade              | 1         |
| 854-44209         | IT110L    | IT110L    | Expert Impact Tool Light with Batteries        | 1         |
| 854-44207         | IT110B    | IT110B    | Replacement 110 Blade                          | 1         |
| 854-44210         | IT66B     | IT66B     | 66 Block Blade                                 | 1         |
| 854-44205         | IT1105    | IT1105    | 5 Pair Category 5e Impact Tool                 | 1         |
| 854-44206         | IT1105B   | IT1105B   | 5 Pair Category 5e Impact Tool Blade Cartridge | 1         |
| 854-44204         | IT1104C6H | IT1104C6H | 4 Pair Category 6 110 Block Replacement Head   | 1         |
| 854-44202         | HTEXWS    | HTEXWS    | Wire Stripper and Cable Cutter - Black         | 1         |
| 854-44203         | HTWS      | HTWS      | Wire Stripper - Yellow                         | 1         |
| 854-40073         | PIPT      | PIPT      | Punch Down Installation Palm Tool              | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

|                              |        |
|------------------------------|--------|
| Enclosures                   | 86-87  |
| Adapter Panels               | 88     |
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## Fiber Enclosures

HellermannTyton offers rugged fiber enclosures in both wall mount and rack mount versions. Available in a variety of sizes, they can accommodate splicing or direct termination of fiber optic cables.

### Wall Mount Fiber Enclosures

HellermannTyton's wall mount fiber enclosures provide a termination solution for LAN applications requiring fully-enclosed and lockable wall mount enclosures. They are designed to support up to either two or four modular adapter panels and can accommodate up to two splice trays (part no. FERMST). These rugged wall mount units are equipped with cable management and cable routing accessories to limit bend radius and add strain-relief control.

The 12/16 port wall mount enclosure is fully enclosed and offers an optional lock for additional security.

The 24/32 port wall mount enclosure has separate entry for the provider and user side.



FEWM12

FEWM24

#### Product Selection

| Article No. | Part No.      | Type   | Description                                                                                 | Height | Width | Depth | Shipping Weight | Pkg. Qty. |
|-------------|---------------|--------|---------------------------------------------------------------------------------------------|--------|-------|-------|-----------------|-----------|
| 855-04207   | <b>FEWM12</b> | FEWM12 | 12/16 Wall Mount Fiber Enclosure - Unloaded, accepts 2 adapter panels, 1 splice tray        | 12.3"  | 9.4"  | 3.7"  | 8 lbs.          | 1         |
| 855-04208   | <b>FEWM24</b> | FEWM24 | 24/32 Wall Mount Fiber Enclosure - Unloaded, accepts 4 adapter panels, up to 2 splice trays | 15.5"  | 11.4" | 3.7"  | 11 lbs.         | 1         |
| 855-04209   | <b>FEWML</b>  | FEWML  | Enclosure Door Lock                                                                         | -      | -     | -     | -               | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Rack Mount Fiber Enclosures

HellermannTyton's rack mount fiber enclosures are the ideal direct termination and splice solution of LAN applications capable of supporting up to 144 fibers. While offering easy-to-use front slide-out trays for effortless access to connections, enclosures are equipped with cable management and cable routing accessories to limit bend radius and add strain-relief control. HellermannTyton's Rack Mount Fiber Enclosures easily fit into 19" or 23" racks.

### Product Features:

- Slide-out tray
- Raised front edge to assist tray pull out
- Removable front and rear access lids
- Tinted plexiglass window (2U & 3U)
- Wire management rings
- Support post for splice trays
- Lanced tabs to support incoming jacketed fiber



FERM18S



FERM36S



FERM54S

### Product Selection

| Article No. | Part No.       | Type    | Description                                                  | Height | Width | Depth  | Height in Units | Shipping Weight | Pkg. Qty. |
|-------------|----------------|---------|--------------------------------------------------------------|--------|-------|--------|-----------------|-----------------|-----------|
| 855-49200   | <b>FERM18S</b> | FERM18S | 18/24 Unloaded - Accepts 3 adapter panels and 1 splice tray  | 1.75"  | 17"   | 12.14" | 1U              | 15 lbs.         | 1         |
| 855-49201   | <b>FERM36S</b> | FERM36S | 36/48 Unloaded - Accepts 6 adapter panels and 2 splice trays | 3.5"   | 17"   | 12.14" | 2U              | 17 lbs.         | 1         |
| 855-49202   | <b>FERM54S</b> | FERM54S | 54/72 Unloaded - Accepts 9 adapter panels and 3 splice trays | 5.25"  | 17"   | 12.14" | 3U              | 19 lbs.         | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### Maximum Fiber Capacity

| Part No.            | ST | SC  | LC  | MTRJ |
|---------------------|----|-----|-----|------|
| <b>FERM18S (1U)</b> | 24 | 36  | 48  | 18   |
| <b>FERM36S (2U)</b> | 48 | 72  | 96  | 36   |
| <b>FERM54S (3U)</b> | 72 | 108 | 144 | 54   |

## Adapter Panels

In order to customize wall mount or rack mount fiber optic enclosures, HellermannTyton offers several panels with various adapters including MTP, LC, SC, ST and MTRJ. All modular adapter panels are assembled with industry standard adapters. The multimode and single mode adapters utilize high performance zirconia ceramic and phosphorous-bronze split sleeve inserts for minimal insertion loss contribution. A blank metal adapter panel is also available. The adapter panels are easily snapped into the enclosures with snap lock mounting fixtures.

### Product Selection

| Article No. | Part No.           | Type       | Description                             | Height | Width  | Pkg. Qty. |
|-------------|--------------------|------------|-----------------------------------------|--------|--------|-----------|
| 855-04229   | <b>FAP6MMTP</b>    | FAP6MMTP   | Panel with 6 MM MTP Adapters            | 5.09"  | 1.125" | 1         |
| 855-04233   | <b>FAP6MQMTP</b>   | FAP6MMTP   | Panel with 6 Aqua MM MTP Adapters       | 5.09"  | 1.125" | 1         |
| 855-04212   | <b>FAP6DMMLC</b>   | FAP6DMMLC  | Panel with 6 Duplex LC MM Adapters      | 5.09"  | 1.125" | 1         |
| 855-04230   | <b>FAP6DMMLQC</b>  | FAP6DMMLC  | Panel with 6 Aqua Duplex LC MM Adapters | 5.09"  | 1.125" | 1         |
| 855-04225   | <b>FAP6DSMLC</b>   | FAP6DSMLC  | Panel with 6 Duplex LC SM Adapters      | 5.09"  | 1.125" | 1         |
| 855-24200   | <b>FAP8DMMLC</b>   | FAP8DMMLC  | Panel with 8 Duplex LC MM Adapters      | 5.09"  | 1.125" | 1         |
| 855-04228   | <b>FAP12DMMLC</b>  | FAP12DMMLC | Panel with 12 Duplex LC MM Adapters     | 5.09"  | 1.125" | 1         |
| 855-04231   | <b>FAP12DMMLQC</b> | FAP12DMMLC | Panel w/ 12 Aqua Duplex LC MM Adapters  | 5.09"  | 1.125" | 1         |
| 855-04226   | <b>FAP12DSMLC</b>  | FAP8DMMLC  | Panel with 12 Duplex LC SM Adapters     | 5.09"  | 1.125" | 1         |
| 855-04211   | <b>FAP3DMMSC</b>   | FAP3DMMSC  | Panel with 3 Duplex SC MM Adapters      | 5.09"  | 1.125" | 1         |
| 855-04213   | <b>FAP6DMMSC</b>   | FAP6DMMSC  | Panel with 6 Duplex SC MM Adapters      | 5.09"  | 1.125" | 1         |
| 855-04232   | <b>FAP6DMMQSC</b>  | FAP6DMMSC  | Panel with 6 Duplex Aqua SC MM Adapters | 5.09"  | 1.125" | 1         |
| 855-04234   | <b>FAP6DSMSC</b>   | FAP6DSMSC  | Panel with 6 Duplex SC SM Adapters      | 5.09"  | 1.125" | 1         |
| 855-04216   | <b>FAP6SMMSC</b>   | FAP6SMMSC  | Panel with 6 Simplex SC MM Adapters     | 5.09"  | 1.125" | 1         |
| 855-04217   | <b>FAP8SMMSC</b>   | FAP8SMMSC  | Panel with 8 Simplex SC MM Adapters     | 5.09"  | 1.125" | 1         |
| 855-04224   | <b>FAP6SSMSC</b>   | FAP6SSMSC  | Panel with 6 Simplex SC SM Adapters     | 5.09"  | 1.125" | 1         |
| 855-04214   | <b>FAP6MMST</b>    | FAP6MMST   | Panel with 6 ST MM Adapters             | 5.09"  | 1.125" | 1         |
| 855-04218   | <b>FAP8SMMST</b>   | FAP8SMMST  | Panel with 8 ST MM Adapters             | 5.09"  | 1.125" | 1         |
| 855-04215   | <b>FAP6MTRJ</b>    | FAP6MTRJ   | Panel with 6 MTRJ Adapters              | 5.09"  | 1.125" | 1         |
| 855-04219   | <b>FAPB</b>        | FAPB       | Blank Panel                             | 5.09"  | 1.125" | 1         |

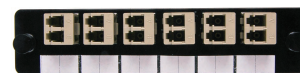
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



FAP6MMTP



FAP6MQMTP



FAP6DMMLC



FAP6DMMLQC



FAP6DSMLC



FAP8DMMLC



FAP12DMMLC



FAP12DMMLQC



FAP12DSMLC



FAP3DMMSC



FAP6DMMSC



FAP6DMMQSC



FAP6DSMSC



FAP6SMMSC



FAP8SMMSC



FAP6SSMSC



FAP6MMST



FAP8SMMST



FAP6MTRJ



FAPB

## Fiber Splice Trays

To provide organization and protection of 12 or 24 fusion splices in the rack mount enclosures, HellermannTyton offers two splice trays. These trays are designed with smooth radiused sides to prevent damage to fibers when routing. The fibers are easy-to-mount and secure with the cable tie mounting holes and are protected with a removable cover.



### Product Selection

| Article No. | Part No.        | Type   | Description            | Height | Width | Depth | Pkg. Qty. |
|-------------|-----------------|--------|------------------------|--------|-------|-------|-----------|
| 855-09200   | <b>FERMST</b>   | FERMST | 12-Fiber Fusion Splice | 8.75"  | 5"    | .4"   | 1         |
| 855-49204   | <b>FERM24ST</b> | FERMST | 24-Fiber Fusion Splice | 11.75" | 4"    | .33"  | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Fiber Optic Cable Assemblies

For fiber patching requirements, HellermannTyton fiber optic cable assemblies are available in various lengths with industry standard LC, SC, ST or MTRJ connectors made with ceramic ferrules. By using superior components and a proprietary polishing process, HellermannTyton manufactures patch cords to meet the highest performance standards. Each assembly is individually tested for insertion loss and return loss.

### Duplex Multimode Fiber Assemblies

Typical insertion loss is less than .5dB per connection. All fiber assemblies are made from 62.5/125µm cable. 50/125µm cable assemblies are available by special order; place a 50 after the standard part number, example: FA1STST50.

#### Product Selection

| Article No. | Part No. | Type   | Description                                 | Length (Meters) | Pkg. Qty. |
|-------------|----------|--------|---------------------------------------------|-----------------|-----------|
| 855-34200   | FA1LCLC  | FALCLC | LC - LC Duplex Multimode Fiber Assembly     | 1               | 1         |
| 855-34213   | FA2LCLC  | FALCLC | LC - LC Duplex Multimode Fiber Assembly     | 2               | 1         |
| 855-34226   | FA3LCLC  | FALCLC | LC - LC Duplex Multimode Fiber Assembly     | 3               | 1         |
| 855-34201   | FA1LCSC  | FALCSC | LC - SC Duplex Multimode Fiber Assembly     | 1               | 1         |
| 855-34214   | FA2LCSC  | FALCSC | LC - SC Duplex Multimode Fiber Assembly     | 2               | 1         |
| 855-34227   | FA3LCSC  | FALCSC | LC - SC Duplex Multimode Fiber Assembly     | 3               | 1         |
| 855-34202   | FA1LCST  | FALCST | LC - ST Duplex Multimode Fiber Assembly     | 1               | 1         |
| 855-34215   | FA2LCST  | FALCST | LC - ST Duplex Multimode Fiber Assembly     | 2               | 1         |
| 855-34228   | FA3LCST  | FALCST | LC - ST Duplex Multimode Fiber Assembly     | 3               | 1         |
| 855-34206   | FA1SCSC  | FASCSC | SC - SC Duplex Multimode Fiber Assembly     | 1               | 1         |
| 855-34219   | FA2SCSC  | FASCSC | SC - SC Duplex Multimode Fiber Assembly     | 2               | 1         |
| 855-34233   | FA3SCSC  | FASCSC | SC - SC Duplex Multimode Fiber Assembly     | 3               | 1         |
| 855-34212   | FA1STST  | FASTST | ST - ST Duplex Multimode Fiber Assembly     | 1               | 1         |
| 855-34225   | FA2STST  | FASTST | ST - ST Duplex Multimode Fiber Assembly     | 2               | 1         |
| 855-34239   | FA3STST  | FASTST | ST - ST Duplex Multimode Fiber Assembly     | 3               | 1         |
| 855-34211   | FA1STSC  | FASTSC | ST - SC Duplex Multimode Fiber Assembly     | 1               | 1         |
| 855-34224   | FA2STSC  | FASTSC | ST - SC Duplex Multimode Fiber Assembly     | 2               | 1         |
| 855-34238   | FA3STSC  | FASTSC | ST - SC Duplex Multimode Fiber Assembly     | 3               | 1         |
| 855-34203   | FA1MTMT  | FAMTMT | MTRJ - MTRJ Duplex Multimode Fiber Assembly | 1               | 1         |
| 855-34216   | FA2MTMT  | FAMTMT | MTRJ - MTRJ Duplex Multimode Fiber Assembly | 2               | 1         |
| 855-34229   | FA3MTMT  | FAMTMT | MTRJ - MTRJ Duplex Multimode Fiber Assembly | 3               | 1         |
| 855-34205   | FA1MTST  | FAMTST | MTRJ - ST Duplex Multimode Fiber Assembly   | 1               | 1         |
| 855-34218   | FA2MTST  | FAMTST | MTRJ - ST Duplex Multimode Fiber Assembly   | 2               | 1         |
| 855-34232   | FA3MTST  | FAMTST | MTRJ - ST Duplex Multimode Fiber Assembly   | 3               | 1         |
| 855-34204   | FA1MTSC  | FAMTSC | MTRJ - SC Duplex Multimode Fiber Assembly   | 1               | 1         |
| 855-34217   | FA2MTSC  | FAMTSC | MTRJ - SC Duplex Multimode Fiber Assembly   | 2               | 1         |
| 855-34230   | FA3MTSC  | FAMTSC | MTRJ - SC Duplex Multimode Fiber Assembly   | 3               | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



LC-LC



LC-SC



LC-ST



MTRJ-MTRJ



MTRJ-SC



ST-ST



ST-SC



SC-SC



MTRJ-ST

## Laser Optimized 10G Multimode Fiber Assemblies

### Product Selection

| Article No. | Part No.          | Type      | Description                  | Length (Meters) | Pkg. Qty. |
|-------------|-------------------|-----------|------------------------------|-----------------|-----------|
| 855-44200   | <b>FA1LCLC10G</b> | FALCLC10G | LC - LC Duplex Multimode 10G | 1               | 1         |
| 855-44201   | <b>FA2LCLC10G</b> | FALCLC10G | LC - LC Duplex Multimode 10G | 2               | 1         |
| 855-44202   | <b>FA3LCLC10G</b> | FALCLC10G | LC - LC Duplex Multimode 10G | 3               | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



Duplex Multimode 10G  
LC-LC

## Simplex Single Mode Fiber Assemblies

Typical insertion loss is less than .25dB per connection. All fiber assemblies are made from 8.3/125μm cable.

### Product Selection

| Article No. | Part No.         | Type     | Description                                | Length (Meters) | Pkg. Qty. |
|-------------|------------------|----------|--------------------------------------------|-----------------|-----------|
| 855-34210   | <b>FA1SMSTST</b> | FASMSTST | ST - ST Simplex Single Mode Fiber Assembly | 1               | 1         |
| 855-34223   | <b>FA2SMSTST</b> | FASMSTST | ST - ST Simplex Single Mode Fiber Assembly | 2               | 1         |
| 855-34237   | <b>FA3SMSTST</b> | FASMSTST | ST - ST Simplex Single Mode Fiber Assembly | 3               | 1         |
| 855-34209   | <b>FA1SMSCSC</b> | FASMSCSC | SC - SC Simplex Single Mode Fiber Assembly | 1               | 1         |
| 855-34222   | <b>FA2SMSCSC</b> | FASMSCSC | SC - SC Simplex Single Mode Fiber Assembly | 2               | 1         |
| 855-34236   | <b>FA3SMSCSC</b> | FASMSCSC | SC - SC Simplex Single Mode Fiber Assembly | 3               | 1         |
| 855-34207   | <b>FA1SMFCFC</b> | FASMFCFC | FC - FC Simplex Single Mode Fiber Assembly | 1               | 1         |
| 855-34220   | <b>FA2SMFCFC</b> | FASMFCFC | FC - FC Simplex Single Mode Fiber Assembly | 2               | 1         |
| 855-34234   | <b>FA3SMFCFC</b> | FASMFCFC | FC - FC Simplex Single Mode Fiber Assembly | 3               | 1         |
| 855-34208   | <b>FA1SMLCLC</b> | FASMLCLC | LC - LC Simplex Single Mode Fiber Assembly | 1               | 1         |
| 855-34221   | <b>FA2SMLCLC</b> | FASMLCLC | LC - LC Simplex Single Mode Fiber Assembly | 2               | 1         |
| 855-34235   | <b>FA3SMLCLC</b> | FASMLCLC | LC - LC Simplex Single Mode Fiber Assembly | 3               | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



Single Mode  
ST-ST



Single Mode  
SC-SC



Single Mode  
FC-FC



Single Mode  
LC-LC

## Fiber Optic Trunk Assemblies

HellermannTyton's fiber optic trunk assemblies are built to order to meet custom specified lengths or fiber counts. Available in MTP, LC, SC, ST or MTRJ connectors, these factory-terminated assemblies can be adapted to meet any project's needs.

Using the matrix below, choose an option from each column to build the custom fiber assembly needed for your application.

### Product Selection

#### Part Numbering Schematic for Fiber Optic Assemblies

| FIXED  |             | VARIABLE - SELECT FROM THE FOLLOWING |                     |                    |                         |                         |                 |                  |             |            |
|--------|-------------|--------------------------------------|---------------------|--------------------|-------------------------|-------------------------|-----------------|------------------|-------------|------------|
| PREFIX | CABLE COUNT | FIBER TYPE                           | CABLE TYPE          | CABLE FLAME RATING | TERMINATION END 1       | TERMINATION END 2       | BREAKOUT LENGTH | POLARITY         | PULLING KIT | LENGTH     |
| F      | A 12        | A MM 62.5/125µm (OM1)                | C Data Center Cable | P Plenum           | A MTP 12 Fiber          | A MTP 12 Fiber          | A .5m           | S Straight Thru  | 0 No Kit    | 10' - 999' |
|        | B 24        | B MM 50/125µm (OM2)                  | D Distribution      | R Riser            | B MTP 24 Fiber          | B MTP 24 Fiber          | B 1m            | R Reversed       | 1 1 Kit     |            |
|        | C 48        | C MM 50/125µm (OM3)                  | R Ribbon            |                    | C MTP 12 Fiber (male)   | C MTP 12 Fiber (male)   | C 1.5m          | P Pair Reversals | 2 2 Kits    |            |
|        | D 72        | D MM 50/125µm (OM4)                  |                     |                    | D MTP 24 Fiber (male)   | D MTP 24 Fiber (male)   | D 2m            |                  |             |            |
|        | E 96        | E Single Mode                        |                     |                    |                         |                         | E No Breakout   |                  |             |            |
|        | F 144       | F MM 50/125µm BIF (OM2)              |                     |                    | E LC 2.0mm w/ clips     | E LC 2.0mm w/ clips     |                 |                  |             |            |
|        |             | G MM 50/125µm BIF (OM3)              |                     |                    | F LC 3.0mm w/ clips     | F LC 3.0mm w/ clips     |                 |                  |             |            |
|        |             | H MM 50/125µm BIF (OM4)              |                     |                    | G LC 900µm fanout       | G LC 900µm fanout       |                 |                  |             |            |
|        |             | J Single Mode BIF                    |                     |                    | H LC APC 2.0mm w/ clips | H LC APC 2.0mm w/ clips |                 |                  |             |            |
|        |             |                                      |                     |                    | J LC APC 3.0mm w/ clips | J LC APC 3.0mm w/ clips |                 |                  |             |            |
|        |             |                                      |                     |                    | K LC APC 900µm fanout   | K LC APC 900µm fanout   |                 |                  |             |            |
|        |             |                                      |                     |                    | O SC 2.0mm w/ clips     | O SC 2.0mm w/ clips     |                 |                  |             |            |
|        |             |                                      |                     |                    | P SC 3.0mm w/ clips     | P SC 3.0mm w/ clips     |                 |                  |             |            |

#### Example Model Number: FAACPHAS115

|   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|----|
| F | A | A | C | P | H | H | A | S | 1 | 15 |
|---|---|---|---|---|---|---|---|---|---|----|

### Fiber Type



A MM 62.5/125µm (OM1)



B MM 50/125µm (OM2)



C MM 50/125µm (OM3)



D MM 50/125µm (OM4)



E Single Mode



F MM 50/125µm BIF (OM2)



G MM 50/125µm BIF (OM3)



H MM 50/125µm BIF (OM4)



J Single Mode BIF

## Fiber Matrix *continued*

### Cable Type



C Data Center Cable



D Distribution



R Ribbon

### Termination End



A MTP 12 Fiber



B MTP 24 Fiber



C MTP 12 Fiber (male)



D MTP 24 Fiber (male)



E LC 2.0mm w/ clips



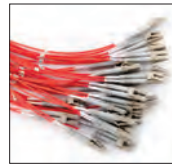
F LC 3.0mm w/ clips



G LC 900µm fanout



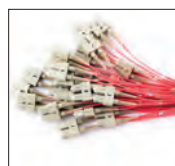
H LC APC 2.0mm w/ clips



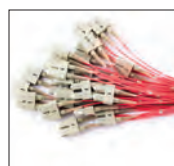
J LC APC 3.0mm w/ clips



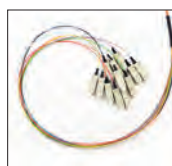
K LC APC 900µm fanout



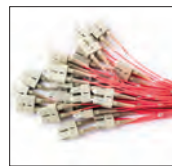
O SC 2.0mm w/ clips



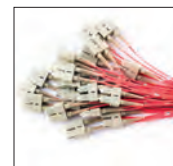
P SC 3.0mm w/ clips



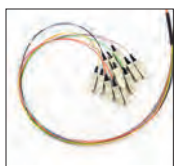
Q SC 900µm fanout



R SC APC 2.0mm w/ clips



S SC APC 3.0mm w/ clips



T SC APC 900µm fanout



U ST 2.0mm



V ST 3.0mm



W ST 900µm fanout



X MTRJ 3.0mm

### Pulling Kit



## Pre-Polished Fiber Optic Connectors

HellermannTyton's pre-polished, field-installable fiber connectors provide exceptional performance and eliminate time consuming hand polishing on the job site. These connectors feature a factory pre-polished fiber ferrule that precisely connects the fiber termination, requiring no special assembly tools, epoxy or polishing. Using a unique factory-installed wedge clip, the fiber is precision aligned to ensure a quality connection with low insertion loss. The connectors are available in Multimode 62.5/125, 50/125, Laser Optimized 50/125, and single mode versions that are color coded for easy identification.



### Applications:

- Repair or replacement requirements
- Fiber to the desk
- Fiber to the subscriber applications (FTTx)
- Premise environments
- Direct equipment termination
- Equipment test leads

| Technical Information: |                               |
|------------------------|-------------------------------|
| Insertion Loss         | < 0.3 dB                      |
| Return Loss            | Average 56.4db, Maximum: 45dB |
| Operating Temperature  | -40°C to +75°C                |

### Features & Benefits:

- Factory pre-polished fiber provides quick, reliable field terminations
- Unique wedge clip allows high-precision, low-loss terminations
- No epoxy, heat curing or polishing
- Connectors allow for re-insertion of fiber
- Meets TIA/EIA-568 performance requirements
- Meets TIA/EIA-604 (FOCIS) specifications

## Pre-Polished Connectors

## Product Selection

| Article No. | Part No.        | Type  | Description                                          | Color | Pkg. Qty. |
|-------------|-----------------|-------|------------------------------------------------------|-------|-----------|
| 855-14209   | <b>PFCLC10G</b> | PFCLC | Pre-polished LC 10G 50/125 Multimode Fiber Connector | Aqua  | 1         |
| 855-14207   | <b>PFCLC50</b>  | PFCLC | Pre-polished LC 50/125 Multimode Fiber Connector     | Black | 1         |
| 855-14208   | <b>PFCLC</b>    | PFCLC | Pre-polished LC 62.5/125 Multimode Fiber Connector   | Beige | 1         |
| 855-14206   | <b>PFCLCSM</b>  | PFCLC | Pre-polished LC Single Mode Fiber Connector          | Blue  | 1         |
| 855-14217   | <b>PFCSC10G</b> | PFCSC | Pre-polished SC 10G 50/125 Multimode Fiber Connector | Aqua  | 1         |
| 855-14214   | <b>PFCSC50</b>  | PFCSC | Pre-polished SC 50/125 Multimode Fiber Connector     | Black | 1         |
| 855-14215   | <b>PFCSC</b>    | PFCSC | Pre-polished SC 62.5/125 Multimode Fiber Connector   | Beige | 1         |
| 855-14216   | <b>PFCSCSM</b>  | PFCSC | Pre-polished SC Single Mode Fiber Connector          | Blue  | 1         |
| 855-14213   | <b>PFCST10G</b> | PFCST | Pre-polished ST 10G 50/125 Multimode Fiber Connector | Aqua  | 1         |
| 855-14210   | <b>PFCST50</b>  | PFCST | Pre-polished ST 50/125 Multimode Fiber Connector     | Black | 1         |
| 855-14211   | <b>PFCST</b>    | PFCST | Pre-polished ST 62.5/125 Multimode Fiber Connector   | Beige | 1         |
| 855-14212   | <b>PFCSTSM</b>  | PFCST | Pre-polished ST Single Mode Fiber Connector          | Blue  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



PFCLC10G



PFCLC50



PFCLC



PFCLCSM



PFCSC10G



PFCSC50



PFCSC



PFCSCSM



PFCST10G



PFCST50



PFCST



PFCSTSM

Pre-Polished Connector Accessories

The termination kit provides all the necessary installation tools for fiber preparation of 250µm or 900µm fibers to be installed in the pre-polished fiber connectors. The termination kit includes a precision cleaver, installation instructions, cleave template, fiber stripper, Kevlar scissors, fiber preparation fluid, lint free cloth wipes, and a carrying case.



Pre-Polished Connector Precision Cleaver

| Product Selection                                                            |            |            |                                          |           |
|------------------------------------------------------------------------------|------------|------------|------------------------------------------|-----------|
| Article No.                                                                  | Part No.   | Type       | Description                              | Pkg. Qty. |
| 855-49205                                                                    | PFCTERMKIT | PFCTERMKIT | Pre-polished Connector Termination Kit   | 1         |
| 855-49206                                                                    | PFCCLEAVER | PFCCLEAVER | Pre-polished Connector Precision Cleaver | 1         |
| Use <b>Part No.</b> for ordering and <b>Type</b> for specification purposes. |            |            |                                          |           |

## Connectors

HellermannTyton offers both SC and ST connectors in both multimode and single mode style and a LC multimode style connector. They are designed for both field and factory installation using either epoxy or anaerobic adhesive. The industry standard single mode and multimode connectors utilize pre-radiused zirconia ceramic ferrules, which provide for consistent ferrule end face geometry. Multimode connectors will work with 62.5/125µm and 50/125µm cable.

| Product Selection |               |        |                                |           |
|-------------------|---------------|--------|--------------------------------|-----------|
| Article No.       | Part No.      | Type   | Description                    | Pkg. Qty. |
| 855-14200         | <b>FCLC</b>   | FCLC   | LC Multimode Fiber Connector   | 10        |
| 855-14201         | <b>FCSC</b>   | FCSC   | SC Multimode Fiber Connector   | 1         |
| 855-14202         | <b>FCSCSM</b> | FCSCSM | SC Single Mode Fiber Connector | 1         |
| 855-14203         | <b>FCST</b>   | FCST   | ST Multimode Fiber Connector   | 1         |
| 855-14204         | <b>FCSTSM</b> | FCSTSM | ST Single Mode Fiber Connector | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

FCLC



FCSC



FCSCSM



FCST



FCSTSM



## Fiber Modules

LC, SC, ST and MTRJ multimode/single mode fiber optic adapter modules insert into HellermannTyton's standard flush wallplates.

### Product Selection

| Article No. | Part No.       | Type        | Description            | Pkg. Qty. | Carton Qty. |
|-------------|----------------|-------------|------------------------|-----------|-------------|
| 854-44238   | LCINSERT-FW    | LCINSERT    | LC Duplex Fiber Module | 1         | 25          |
| 854-44240   | LCINSERT-W     | LCINSERT    | LC Duplex Fiber Module | 1         | 25          |
| 854-44239   | LCINSERT-I     | LCINSERT    | LC Duplex Fiber Module | 1         | 25          |
| 854-44280   | SCINSERT-FW    | SCINSERT    | SC Fiber Module        | 1         | 25          |
| 854-44282   | SCINSERT-W     | SCINSERT    | SC Fiber Module        | 1         | 25          |
| 854-44281   | SCINSERT-I     | SCINSERT    | SC Fiber Module        | 1         | 25          |
| 854-44227   | FIBERINSERT-FW | FIBERINSERT | ST Fiber Module        | 1         | 25          |
| 854-44229   | FIBERINSERT-W  | FIBERINSERT | ST Fiber Module        | 1         | 25          |
| 854-44228   | FIBERINSERT-I  | FIBERINSERT | ST Fiber Module        | 1         | 25          |
| 854-44241   | MTRJINSERT-FW  | MTRJINSERT  | MTRJ Fiber Module      | 1         | 25          |
| 854-44243   | MTRJINSERT-W   | MTRJINSERT  | MTRJ Fiber Module      | 1         | 25          |
| 854-44242   | MTRJINSERT-I   | MTRJINSERT  | MTRJ Fiber Module      | 1         | 25          |

Use **Part No.** for ordering and **Type** for specification purposes.



LC Duplex



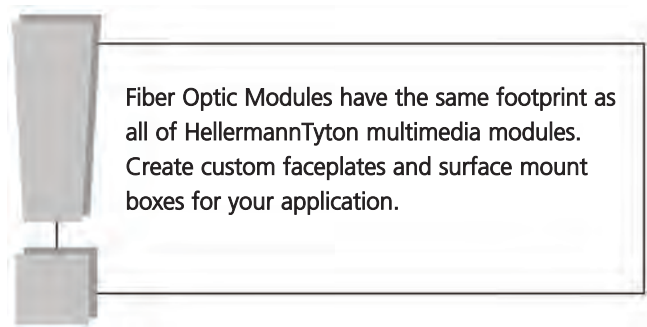
SC



ST



MTRJ



Fiber Optic Modules have the same footprint as all of HellermannTyton multimedia modules. Create custom faceplates and surface mount boxes for your application.

## Fiber Optic Cleaning Accessories

### Bulkhead Cleaners

The IBC (In Bulkhead Cleaner) products are designed specifically to clean ferrules while in the bulkhead. The MTP™/MPO model's unique design allows for the cleaning of both pinned (male) and pinless (female) MT ferrules. The LC model can effectively clean connector's right in the adapter sleeves. Both cleaners are effective for cleaning dust and oil. An adapter is supplied for cleaning connector or adapter.

#### Features

- Over 400 cleanings per unit
- Cleaning cloth is washed out debris free
- Adapted cap doubles as dust protection
- Compliant with FOCIS 5-type MPO interface
- Effective cleaning solution for parallel optics transceivers



FACMTP



FACLC

#### Product Selection

| Article No. | Part No. | Type | Description              | Pkg. Qty. |
|-------------|----------|------|--------------------------|-----------|
| 855-49208   | FACMTP   | FAC  | MTP™ In Bulkhead Cleaner | 1         |
| 855-49207   | FACLC    | FAC  | LC In Bulkhead Cleaner   | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

MTP is a registered trademark of US Conec Ltd.

## Fiber Reel Cleaner

The compact, cassette-style reel cleaner is a densely woven micro-fiber cloth cleaning system which accommodates all single-fiber connector types, MTP™/MPO male and female connectors, and male and female MTRJ connectors, but not male MT connectors. The improved cloth and package design offers cost and time savings compared to competitive cassette cleaners. Simple to use, one squeeze of the ergonomic lever advances and exposes the required amount of fresh cleaning fabric for each cleaning. The anti-static cloth material produces a pristine fiber tip and minimizes contaminant attraction.



### Features

- Ideal for field or factory cleaning requirements
- Cleaner has consistently outperformed competing cleaning technologies based on GR-2329 contamination testing requirements
- One cleaning produces .06kV of potential versus .33kV for other dry cloth cleaners
- Cleaning fabric is pre-washed and produces less than 70 pcs/CFM of particles greater than 1mm in size; this makes the system excellent for use in any production environment including clean rooms

| Product Selection |          |      |                      |           |
|-------------------|----------|------|----------------------|-----------|
| Article No.       | Part No. | Type | Description          | Pkg. Qty. |
| 855-49209         | FCRC     | FCRC | Reel Cleaner         | 1         |
| 855-49210         | FCRCREF  | FCRC | Reel Cleaner Refills | 6         |

Use **Part No.** for ordering and **Type** for specification purposes.

MTP is a registered trademark of US Conec Ltd.

## Fiber Optic Stripper

This multi-function fiber optic stripper offers precision formed stripping areas for reliable stripping accuracy on multiple fiber cable types. Ergonomic rubber handles are angled to provide comfort over repeated use and reduce user fatigue. This tool strips the outer jacket off of: 2.0 - 2.4mm fiber, 2.8 - 3.0mm fiber, and 2.0 - 3.0mm loose tube fiber. It also strips the buffer and/or acrylate off of: 900µm Loose Buffer (Buffer only), 900/125µm Fiber (Buffer and Acrylate), and 250/125µm Fiber (Buffer and Acrylate).

### Product Selection

| Article No. | Part No. | Type | Description                         | Pkg. Qty. |
|-------------|----------|------|-------------------------------------|-----------|
| 855-19208   | HTFS     | HTFS | Multi-function Fiber Optic Stripper | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Fiberclean

HellermannTyton's Fiberclean is a fiber optic connector cleaning dispenser system, which is both economical and easy to use. This unique, handheld connector cleaner assures dirt and lint-free field connections for the most optimal signal transmission. The Fiberclean system replaces the use of gasses, alcohol swabs, napkins, and wipes. Each dispenser contains 10 feet of 1-1/2" strips of "Ultra-White" non-woven, lint-free film for complete removal of dust, dirt, oil and grease from fiber and ferrule end faces. Just three "figure-eight" strokes with the connector to the material cleans the surface. Each cleaning strip can clean up to six connectors, allowing over 400 connections to be cleaned per dispenser.

### Product Selection

| Article No. | Part No. | Type | Description                           | Pkg. Qty. |
|-------------|----------|------|---------------------------------------|-----------|
| 590-00171   | FO1      | FO   | Fiberclean Fiber Optic Cleaner        | 1         |
| 590-00172   | FO1REF   | FO   | Fiberclean Fiber Optic Cleaner Refill | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Termination Kit for ST/SC Multimode Connectors

HellermannTyton offers a complete universal fiber optic connector installation tool kit that includes all the tools and materials needed for terminations of SC/ST-style connectors. This compact and lightweight kit includes a buffer remover tool, jacket stripper, crimp tool, scribe, microscope, scissors, anaerobic adhesive and primer, polishing pad, polishing puck, polishing papers, safety glasses, syringes, needles, wipes, and bottles for alcohol and fiber debris. This kit provides enough consumables to install up to 100 connectors. Products are available separately to terminate single mode SC/ST and LC small form connectors. Replacement epoxy kit available with adhesive, primer, syringes (10), and needle tips (20).



### Product Selection

| Article No. | Part No.   | Type       | Description                                                    | Pkg. Qty. |
|-------------|------------|------------|----------------------------------------------------------------|-----------|
| 855-19207   | FCTERMKIT  | FCTERMKIT  | Termination Kit for ST/SC Multimode Applications               | 1         |
| 855-19201   | FCEPOXYKIT | FCEPOXYKIT | Replacement Epoxy Kit                                          | 1         |
| 855-19203   | FCPAPER5   | FCPAPER5   | 5 Micron Polishing Paper                                       | 50        |
| 855-19202   | FCPAPER1   | FCPAPER1   | 1 Micron Polishing Paper                                       | 50        |
| 855-19204   | FCPAPERSM  | FCPAPERSM  | .1 Micron Diamond Polishing Paper for Single Mode Applications | 1         |
| 855-19206   | FCPUCKSCST | FCPUCKSCST | SC/ST Polishing Puck                                           | 1         |
| 855-19205   | FCPUCKLC   | FCPUCKLC   | LC Polishing Puck                                              | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## Fiber Connector Consumable Kit for ST/SC and LC Small Form Applications

This consumable replacement kit provides the materials needed for terminations of SC/ST and LC style connectors. This kit consists of anaerobic adhesive, 25 sheets each of 5mm, 1mm and 0.3mm film, syringes, mini foam swabs, Kimwipes®, canned air and an alcohol bottle. This kit provides enough consumables to install up to 100 connectors. Kimwipes® is a registered trademark of Kimberly-Clark.



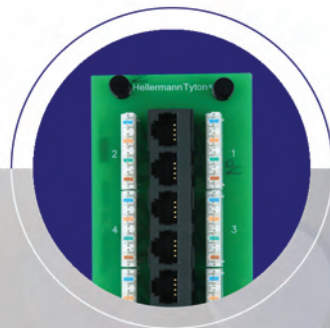
### Product Selection

| Article No. | Part No.      | Type          | Description                                             | Pkg. Qty. |
|-------------|---------------|---------------|---------------------------------------------------------|-----------|
| 855-19200   | FCCONSUMABLES | FCCONSUMABLES | Consumable Kit for ST/SC and LC Small Form Applications | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

|                         |         |
|-------------------------|---------|
| Residential Enclosures  | 104     |
| Residential Modules     | 105-110 |
| CATV Video Amplifier    | 110     |
| Residential Accessories | 111-112 |
| Residential Brackets    | 113     |
| Basic Enclosure         | 114     |
| Basic Modules           | 115-118 |



# Home Network Sciences<sup>TM</sup>

The Home Network Sciences system allows for:

- Telephone Distribution
- Video and TV Distribution
- Whole-house Audio
- Computer Networking
- Internet Networking (using DSL and cable modems)
- Customized Multimedia Wallplates

All Network Sciences products meet the requirements of the EIA/TIA-570-B Residential Cabling Standard



RE28 with Hinged Cover

## Residential Enclosures

The heart of the Home Network Sciences system is the Residential Distribution Enclosure. This enclosure is strong, easy to install and utilizes a unique latching system which makes mounting of the various modules easy.

- Sturdy, 18 gauge Cold Rolled Steel construction — UL Listed
- Office white color
- Flexibility to mount half or full-size modules anywhere on grid
- Can be surface-mounted or recessed mounted in between standard 16" studs
- Zinc-plated, powder-coated, office white cover features a 3/4" overlap to hide irregular drywall cuts
- Accommodates all drywall thicknesses
- Multiple knock-outs for 1" or 1-1/2" conduit on top, sides and back facilitate cable entry from every direction
- Three large, pre-punched slots allow easy cable entry from top
- Two knock-outs on the bottom for AC power outlets in recessed or surface mount installations
- Grounding screw included for proper electrical grounding
- RE28 has built in brackets for stud mounting
- RE28 can also be mounted directly from inside enclosure wall to studs
- RE28 has a unique hinged cover that easily mounts onto enclosure without the need for screws or tools



RE18



RE18 - Cover

### Product Selection

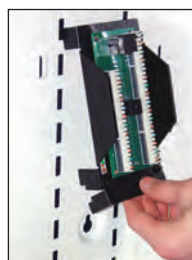
| Article No. | Part No. | Type | Description                     | Height | Width  | Depth | Cover Width | Cover Height | Pkg. Qty. |
|-------------|----------|------|---------------------------------|--------|--------|-------|-------------|--------------|-----------|
| 856-24200   | RE18     | RE18 | Residential Enclosure and Cover | 18"    | 14.1"  | 4"    | 15.75"      | 19.5"        | 1         |
| 856-24201   | RE28     | RE28 | Residential Enclosure and Cover | 28"    | 14.35" | 4.5"  | 15.5"       | 29.5"        | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Residential Modules

All modules use the same unique latching design. The modules indicate whether they are half-size or full-size. The width of the residential enclosure grid accommodates four half-sized or two full-sized modules.

- Easy to install enclosure
- All steel construction with no plastic mounting fasteners
- Easy to read color coded wiring labels
- Half-size modules include cover to conceal cable terminations
- Half-size modules are raised 1/2" above enclosure to allow cable routing under modules
- White write-on areas for easy identification
- Utilize easy, high-quality 110 punch-down blocks for permanent cable terminations
- Meets EIA/TIA-570-B standard



Step 1 -  
Mount on grid



Step 2 -  
Secure with two screws

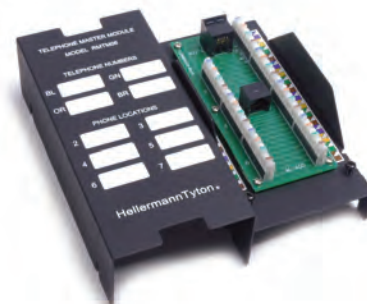


Step 3 -  
Push cover on module

## Telephone Master Module

For basic telephone, fax and modem service. Accommodates up to 4 lines and supports up to 6 separate phone locations.

- Category 5e rated
- Security panel connection RJ-31X for automatic seizure of line 1 in emergencies
- Cover includes white write-on areas for all 4 lines and 6 locations
- Expansion RJ45 jack for connection to RMTE07 for more phone locations



### Product Selection

| Article No. | Part No.      | Type   | Description             | Height | Width | Depth | Pkg. Qty. |
|-------------|---------------|--------|-------------------------|--------|-------|-------|-----------|
| 856-04200   | <b>RMTE06</b> | RMTE06 | Telephone Master Module | 6.9"   | 3.2"  | 2.2"  | 1         |

Half-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Multi-Line Telephone Distribution Module

Allows more flexibility for changing locations by patching versus hardwiring, with 24 multi-line telephone connections in either 2 or 4 lines.

- Handles up to 4 incoming lines
- Security panel connection RJ-31X
- Patches to RMD08 module
- Also supports DSL internet access



### Product Selection

| Article No. | Part No.      | Type   | Description                              | Height | Width | Depth | Pkg. Qty. |
|-------------|---------------|--------|------------------------------------------|--------|-------|-------|-----------|
| 856-64206   | <b>RMMLTD</b> | RMMLTD | Multi-Line Telephone Distribution Module | 6.2"   | 6.5"  | .6"   | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Telephone Expansion Module

Used in conjunction with RMTM06, the telephone expansion module supports up to 7 additional phone locations. A 6" Category 5e patch cord is included to connect to RMTM06.

- Category 5e rated
- Cover includes white write-on areas for all 7 locations
- Expansion RJ45 jack for connecting to additional RMTE07 modules



### Product Selection

| Article No. | Part No.      | Type   | Description                | Height | Width | Depth | Pkg. Qty. |
|-------------|---------------|--------|----------------------------|--------|-------|-------|-----------|
| 856-09200   | <b>RMTE07</b> | RMTE07 | Telephone Expansion Module | 6.9"   | 3.2"  | 2.2"  | 1         |

Half-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Telephone & Video Combination Module

The telephone and video combination module is for basic telephone, fax, modem and cable TV service. It accommodates up to 2 telephone lines and supports up to 6 separate phone locations. This module also distributes CATV or other video services to 4 TV locations.

- 4-way balanced passive splitter, 5 MHz - 1 GHz
- Typical Insertion Loss: 8.1dB Maximum
- Typical Return Loss: 18dB Minimum
- Typical Isolation: 24dB Minimum
- Category 5e rated
- Write-on areas for 6 phone locations and 4 CATV locations



### Product Selection

| Article No. | Part No.         | Type      | Description                          | Height | Width | Depth | Pkg. Qty. |
|-------------|------------------|-----------|--------------------------------------|--------|-------|-------|-----------|
| 856-09201   | <b>RMTV061X4</b> | RMTV061X4 | Telephone & Video Combination Module | 3.9"   | 6.9"  | 1.8"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Telephone and Data Module

The Telephone and Data Module allows computers to be connected to a Local Area Network (LAN) or Multi-Line Telephone Distribution Module (RMMLTD) to connect telephones. It supports termination of 8 Category 5e UTP cables.

- Meets EIA/TIA-568-B standard for Category 5e cabling systems
- Certified up to 1000BASE-T Gigabit Ethernet network performance
- Cover includes white write-on areas for all 8 computer locations
- Utilizes 568A wiring scheme per TIA/EIA-570B requirements



| Product Selection |              |       |                           |        |       |       |           |
|-------------------|--------------|-------|---------------------------|--------|-------|-------|-----------|
| Article No.       | Part No.     | Type  | Description               | Height | Width | Depth | Pkg. Qty. |
| 856-14200         | <b>RMD08</b> | RMD08 | Telephone and Data Module | 6.9"   | 3.2"  | 2.2"  | 1         |

Half-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.  
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Keystone Module

The Keystone Module allows computers to be connected to a Local Area Network (LAN) and accepts 8 HellermannTyton Category 5e modular jacks (RJ45FC5E-X) or Category 6 modular jacks (RJ45FC6-X)

- Accepts all keystone modules such as F-Type, BNC, RCA, S-Video and Fiber
- Meets EIA/TIA-568-B standard for Category 5e cabling systems
- Certified 1000BASE-T Gigabit Ethernet network performance
- Base includes white write-on areas for all 8 locations
- Allows user to meet recommendation for Category 6 as specified in EIA/TIA-570-B standard



| Product Selection |               |        |                 |        |       |       |           |
|-------------------|---------------|--------|-----------------|--------|-------|-------|-----------|
| Article No.       | Part No.      | Type   | Description     | Height | Width | Depth | Pkg. Qty. |
| 856-14201         | <b>RMDK08</b> | RMDK08 | Keystone Module | 3.9"   | 6.9"  | 3.9"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.  
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Video Splitter Modules

HellermannTyton's video splitter module distributes CATV, digital TV or other video services to multiple TV locations. The four and eight port video splitters are available in bandwidths of both 1 and 2 GHz and feature white write-on areas for easy location identification.

### Four Port - 1 GHz Video Splitter Module

- 4-way balanced passive splitter, 5 MHz - 1 GHz
- Typical Insertion Loss: 8.1dB Maximum
- Typical Return Loss: 18dB Minimum
- Typical Isolation: 24dB Minimum



| Product Selection |                |         |                                  |        |       |       |           |
|-------------------|----------------|---------|----------------------------------|--------|-------|-------|-----------|
| Article No.       | Part No.       | Type    | Description                      | Height | Width | Depth | Pkg. Qty. |
| 856-19200         | <b>RMVS1X4</b> | RMVS1X4 | Four Port - 1 GHz Video Splitter | 3.4"   | 6.3"  | 3.5"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.  
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### Eight Port - 1 GHz Video Splitter Module

- 8-way balanced passive splitter, 5 MHz - 1 GHz
- Typical Insertion Loss: 12.5dB Maximum
- Typical Return Loss: 16dB Minimum
- Typical Isolation: 25dB Minimum



| Product Selection |                |         |                                   |        |       |       |           |
|-------------------|----------------|---------|-----------------------------------|--------|-------|-------|-----------|
| Article No.       | Part No.       | Type    | Description                       | Height | Width | Depth | Pkg. Qty. |
| 856-19202         | <b>RMVS1X8</b> | RMVS1X8 | Eight Port - 1 GHz Video Splitter | 3.4"   | 6.3"  | 3.5"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.  
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Four Port - 2 GHz Video Splitter Module

- 4-way balanced passive splitter, 5 MHz - 2 GHz
- Typical Insertion Loss: 11.5dB Maximum
- Typical Return Loss: 18dB Minimum
- Typical Isolation: 18dB Minimum



| Product Selection |                  |           |                                  |        |       |       |           |
|-------------------|------------------|-----------|----------------------------------|--------|-------|-------|-----------|
| Article No.       | Part No.         | Type      | Description                      | Height | Width | Depth | Pkg. Qty. |
| 856-19201         | <b>RMVS1X42G</b> | RMVS1X42G | Four Port - 2 GHz video splitter | 3.4"   | 6.3"  | 3.5"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.  
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Eight Port - 2 GHz Video Splitter Module

- 8-way balanced passive splitter, 5 MHz - 2 GHz
- Typical Insertion Loss: 20dB Maximum
- Typical Return Loss: 16dB Minimum
- Typical Isolation: 18dB Minimum



| Product Selection |                  |           |                                   |        |       |       |           |
|-------------------|------------------|-----------|-----------------------------------|--------|-------|-------|-----------|
| Article No.       | Part No.         | Type      | Description                       | Height | Width | Depth | Pkg. Qty. |
| 856-19203         | <b>RMVS1X82G</b> | RMVS1X82G | Eight Port - 2 GHz Video Splitter | 3.4"   | 6.3"  | 3.5"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.  
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Audio Distribution Module

The Audio Distribution Module allows for whole-house audio distribution and supports up to 6 pairs of speakers from a stereo receiver or amplifier.

- Connects with standard speaker wire, 14-18 AWG wire
- Parallel connection scheme ensures the best sound quality
- Removable termination covers simplify installation



### Product Selection

| Article No. | Part No.      | Type   | Description               | Height | Width | Depth | Pkg. Qty. |
|-------------|---------------|--------|---------------------------|--------|-------|-------|-----------|
| 856-29200   | <b>RMA1X6</b> | RMA1X6 | Audio Distribution Module | 3.9"   | 6.9"  | 1.8"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## CATV Video Amplifier

Amplifies the incoming CATV or other video signal before splitting and distributing the signal.

- Increases video signal strength and quality to performance levels of up to 25dB
- Variable attenuator to adjust signal power
- Frequency range: 50 MHz - 900 MHz
- Gain Control Range: 5-25dB
- FM Trap dB: 20
- Impedance: 75 Ohm
- Power source: 12V DC 200MA



### Product Selection

| Article No. | Part No.    | Type | Description                 | Height | Width | Depth | Pkg. Qty. |
|-------------|-------------|------|-----------------------------|--------|-------|-------|-----------|
| 856-19204   | <b>RMVA</b> | RMVA | CATV Video Amplifier Module | 4.3"   | 6.7"  | 4.3"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Satellite Multi-Switch 4-output

Distributes satellite signals from a dual LNB (Low Noise Block Converter) satellite antenna to a maximum of four satellite receivers.

- For optimal use, incorporate a video amplifier (HellermannTyton P/N - RMVA)
- TV Antenna Output: 40 MHz - 860 MHz
- LNB Output: 950 MHz - 2250 MHz
- Receiver Output: 40 MHz - 2250 MHz
- Impedance: 75 Ohm
- LNB Selection Voltage: LNB A:13V/14V; LNB B17V/18V
- Receiver Output: 40 MHz - 2250 MHz



### Product Selection

| Article No. | Part No.      | Type   | Description                      | Height | Width | Depth | Pkg. Qty. |
|-------------|---------------|--------|----------------------------------|--------|-------|-------|-----------|
| 856-19206   | <b>RMSM04</b> | RMSM04 | Satellite Multi-Switch, 4-output | 5.2"   | 6.4"  | 1.8"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## 10BASE-T Network Hub

Share data from computers and printers by connecting to a 10BASE-T local area network. Supports up to 4 connections.

- Data transfer rate: 10 Mbps
- Complies with IEEE 802.3 standard and FCC Certified
- LED indicators for easy status diagnosis and troubleshooting
- Power adapter: 7.5V DC, 750 mA and mounting bracket included



### Product Selection

| Article No. | Part No.         | Type      | Description          | Height | Width | Depth | Pkg. Qty. |
|-------------|------------------|-----------|----------------------|--------|-------|-------|-----------|
| 856-44201   | <b>RM10BTH05</b> | RM10BTH05 | 10BASE-T Network Hub | 5.2"   | 6.9"  | 2.6"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## 10/100BASE-T Network Switch

Share data from computers and printers by connecting to either a 10BASE-T or 100BASE-T Ethernet local area network. Supports up to 5 connections.

- Data transfer rate: 100 Mbps
- Complies with IEEE 802.3 standard and FCC Certified
- LED indicators for easy status diagnosis and troubleshooting
- Power adapter: 7.5V DC, 750 mA and mounting bracket included



### Product Selection

| Article No. | Part No.          | Type       | Description              | Height | Width | Depth | Pkg. Qty. |
|-------------|-------------------|------------|--------------------------|--------|-------|-------|-----------|
| 856-44200   | <b>RM100BTS05</b> | RM100BTS05 | 10/100BASE-T Network Hub | 6.5"   | 6.9"  | 2.6"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Internet Broadband Router

Allows single DSL or cable modem internet connection to be shared among up to 4 computers.

- Data transfer rate: 100 Mbps
- Built-in 10/100BASE-T network switch for local area networks
- Provides a natural firewall and secure gateway
- PPTP, IPSec., pass-through support for virtual private networks (VPN)
- Complies with IEEE 802.3 standard and FCC Certified
- LED indicators for easy status diagnosis and troubleshooting
- Power adapter: 12V DC, 800 mA and mounting bracket included



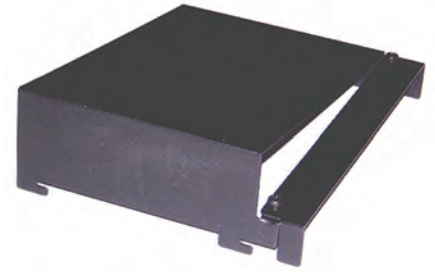
### Product Selection

| Article No. | Part No.      | Type   | Description               | Height | Width | Depth | Pkg. Qty. |
|-------------|---------------|--------|---------------------------|--------|-------|-------|-----------|
| 856-44202   | <b>RMIB04</b> | RMIB04 | Internet Broadband Router | 7.9"   | 6.9"  | 2.7"  | 1         |

Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Network Hub/Switch Mounting Bracket

The Network Hub/Switch Mounting Bracket accepts most small hub or switches to mount in HellermannTyton enclosures and includes adhesive strips included for easy mounting.



| Product Selection                                                                                                                                                                                                                                                  |             |      |                            |        |       |       |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|----------------------------|--------|-------|-------|-----------|
| Article No.                                                                                                                                                                                                                                                        | Part No.    | Type | Description                | Height | Width | Depth | Pkg. Qty. |
| 856-19205                                                                                                                                                                                                                                                          | <b>RHMB</b> | RHMB | Network Hub/Switch Bracket | 5.2"   | 6.9"  | 1.9"  | 1         |
| Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.<br>Dimensions are approximate and subject to technical changes. Use <b>Part No.</b> for ordering and <b>Type</b> for specification purposes. |             |      |                            |        |       |       |           |

## 110 Mounting Bracket

The 110 block mounting bracket will accept the Category 6 48 and 96 pair and the Category 5e 50 and 100 pair 110 blocks only. Used with the RE18 or RE28, this bracket provides a secure base for the 110 block, and the unique latching system secures the bracket to the enclosure. 110 blocks can be found on pages 69-70.



*110 block sold separately*

| Product Selection                                                                                                                                                                                                                                                  |               |        |                      |        |       |       |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|----------------------|--------|-------|-------|-----------|
| Article No.                                                                                                                                                                                                                                                        | Part No.      | Type   | Description          | Height | Width | Depth | Pkg. Qty. |
| 856-19207                                                                                                                                                                                                                                                          | <b>R110MB</b> | R110MB | 110 Mounting Bracket | 9.6"   | 4.4"  | .728" | 1         |
| Full-size module, the width of the residential enclosure grid accommodates four half-sized or two full-sized modules.<br>Dimensions are approximate and subject to technical changes. Use <b>Part No.</b> for ordering and <b>Type</b> for specification purposes. |               |        |                      |        |       |       |           |

# Home Network Sciences<sup>TM</sup>

## Basic Line of Residential Enclosures and Modules

HellermannTyton offers a basic line of residential enclosures and modules that is a cost effective option to its standard line of residential solutions.

### Basic Enclosure

This enclosure is strong, easy to install and utilizes a system which makes mounting of the various modules easy.

- Sturdy, 18 gauge cold rolled steel construction — UL Listed
- Has a unique latched cover that easily mounts onto enclosure without the need for screws or tools
- Can be surface-mounted directly from inside enclosure or recessed mounted with built in brackets between standard 16" studs
- Side and rear cable tie mounting slots for securing cable
- Zinc-plated, powder-coated, white cover features a 3/4" overlap to hide irregular drywall cuts
- Accommodates all drywall thicknesses
- Four large, pre-punched slots allow easy cable entry from top
- Knock-out on the bottom for AC power outlets in recessed or surface mount installations

#### Product Selection

| Article No. | Part No.     | Type  | Description                         | Height | Width | Depth | Cover Height | Cover Width | Pkg. Qty. |
|-------------|--------------|-------|-------------------------------------|--------|-------|-------|--------------|-------------|-----------|
| 856-24202   | <b>RE10B</b> | RE10B | 10" Residential Enclosure and Cover | 10"    | 14.4" | 4"    | 11.8"        | 16.1"       | 1         |

Includes cover, mounting brackets and hole grommets. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



*Modules sold separately*

## 4 X 7 Telephone Module

For basic telephone, fax and modem service. Accommodates up to 4 lines and supports up to 7 separate phone locations.

- Security panel connection RJ-31X for automatic seizure of line 1 in emergencies
- Utilizes 568A wiring scheme per TIA/EIA-570-B requirements



| Product Selection |                |         |                  |        |       |       |           |
|-------------------|----------------|---------|------------------|--------|-------|-------|-----------|
| Article No.       | Part No.       | Type    | Description      | Height | Width | Depth | Pkg. Qty. |
| 856-64204         | <b>RMTM07B</b> | RMTM07B | Telephone Module | 8.6"   | 2.6"  | 1"    | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## 4 X 11 Telephone Module

For basic telephone, fax and modem service. Accommodates up to 4 lines and supports up to 11 separate phone locations.

- Security panel connection RJ-31X for automatic seizure of line 1 in emergencies
- Utilizes 568A wiring scheme per TIA/EIA-570-B requirements



| Product Selection |                |         |                  |        |       |       |           |
|-------------------|----------------|---------|------------------|--------|-------|-------|-----------|
| Article No.       | Part No.       | Type    | Description      | Height | Width | Depth | Pkg. Qty. |
| 856-64205         | <b>RMTM11B</b> | RMTM11B | Telephone Module | 8.6"   | 2.6"  | 1"    | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Telephone Mounting Bracket

The telephone mounting bracket allows basic telephone modules to be used in the RE18 or RE28 enclosures.

- Used in conjunction with RMTM07B or RMTM11B



| Product Selection |                 |          |                            |        |       |       |           |
|-------------------|-----------------|----------|----------------------------|--------|-------|-------|-----------|
| Article No.       | Part No.        | Type     | Description                | Height | Width | Depth | Pkg. Qty. |
| 856-49200         | <b>RMTM11MB</b> | RMTM11MB | Telephone Mounting Bracket | 9.1"   | 3.2"  | 1.7"  | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Data Module

The data module allows computers to be connected to a Local Area Network (LAN). Supports up to 6 Category 5e RJ45 locations.

- Meets EIA/TIA-568-B standard for Category 5e cabling systems
- Utilizes 568A wiring scheme per TIA/EIA-570B requirements



| Product Selection |               |        |             |        |       |       |           |
|-------------------|---------------|--------|-------------|--------|-------|-------|-----------|
| Article No.       | Part No.      | Type   | Description | Height | Width | Depth | Pkg. Qty. |
| 856-59200         | <b>RMD07B</b> | RMD07B | Data Module | 4.9"   | 2.6"  | 1"    | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Video Splitter Modules

HellermannTyton's passive video splitter module distributes CATV, digital TV or other video services to multiple TV locations. The four and eight port video splitters are available in bandwidths of both 1 and 2 GHz.

### Four Port - 1 GHz Video Splitter Module

- 4-way balanced passive splitter, 5 MHz – 1 GHz
- Typical Insertion Loss: 8.1dB Maximum
- Typical Return Loss In: 18dB Minimum
- Typical Return Loss Out: 20dB Minimum
- Typical Isolation: 24dB Minimum



| Product Selection                                                                                                                         |                   |            |                                     |        |       |       |           |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|-------------------------------------|--------|-------|-------|-----------|
| Article No.                                                                                                                               | Part No.          | Type       | Description                         | Height | Width | Depth | Pkg. Qty. |
| 856-64200                                                                                                                                 | <b>RMVS1X41GB</b> | RMVS1X41GB | 1 GHz Video Splitter Module, 4 port | 1.63"  | 2.9"  | 1.13" | 1         |
| Dimensions are approximate and subject to technical changes. Use <b>Part No.</b> for ordering and <b>Type</b> for specification purposes. |                   |            |                                     |        |       |       |           |

### Eight Port - 1 GHz Video Splitter Module

- 8-way balanced passive splitter, 5 MHz – 1 GHz
- Typical Insertion Loss: 12.5dB Maximum
- Typical Return Loss In: 20dB Minimum
- Typical Return Loss Out: 20dB Minimum
- Typical Isolation: 21dB Minimum



| Product Selection                                                                                                                         |                   |            |                                     |        |       |       |           |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|-------------------------------------|--------|-------|-------|-----------|
| Article No.                                                                                                                               | Part No.          | Type       | Description                         | Height | Width | Depth | Pkg. Qty. |
| 856-64201                                                                                                                                 | <b>RMVS1X81GB</b> | RMVS1X81GB | 1 GHz Video Splitter Module, 8 port | 2.68"  | 3.01" | 1.13" | 1         |
| Dimensions are approximate and subject to technical changes. Use <b>Part No.</b> for ordering and <b>Type</b> for specification purposes. |                   |            |                                     |        |       |       |           |

### Four Port - 2 GHz Video Splitter Module

- 4-way balanced passive splitter, 5 MHz – 2 GHz
- Typical Insertion Loss: 11.5dB Maximum
- Typical Return Loss In: 15dB Minimum
- Typical Return Loss Out: 12dB Minimum
- Typical Isolation: 18dB Minimum



#### Product Selection

| Article No. | Part No.          | Type       | Description                         | Height | Width | Depth | Pkg. Qty. |
|-------------|-------------------|------------|-------------------------------------|--------|-------|-------|-----------|
| 856-64202   | <b>RMVS1X42GB</b> | RMVS1X42GB | 2 GHz Video Splitter Module, 4 port | 1.63"  | 2.9"  | 1.13" | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### Eight Port - 2 GHz Video Splitter Module

- 8-way balanced passive splitter, 5 MHz – 2 GHz
- Typical Insertion Loss: 18.5dB Maximum
- Typical Return Loss In: 10dB Minimum
- Typical Return Loss Out: 10dB Minimum
- Typical Isolation: 20dB Minimum



#### Product Selection

| Article No. | Part No.          | Type       | Description                         | Height | Width | Depth | Pkg. Qty. |
|-------------|-------------------|------------|-------------------------------------|--------|-------|-------|-----------|
| 856-64203   | <b>RMVS1X82GB</b> | RMVS1X82GB | 2 GHz Video Splitter Module, 8 port | 2.68"  | 3.01" | 1.13" | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

# ROUTING AND RACEWAY PRODUCTS

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

TSR and TSRP Raceways .....120-127

InfoStream Raceway .....128-137

Wiring Duct .....138



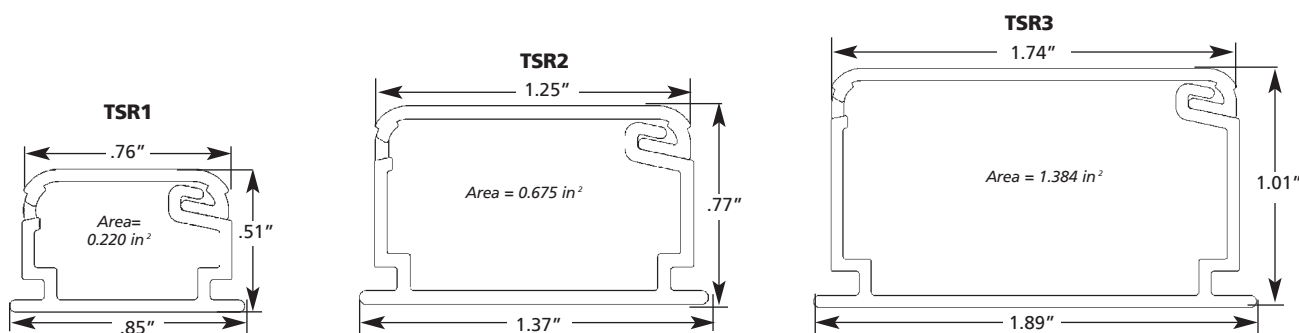
## Surface Raceway Systems

HellermannTyton's surface raceway systems are industry preferred for their sleek designs, labor-saving features, and durability. With the addition of the TSRP power surface raceway, HellermannTyton offers an integrated raceway package which fits together to meet the requirements of most any raceway application. Installed at school systems, hospitals, research centers, factories, offices, and many other locations, HellermannTyton's raceway systems make the difference in aesthetics, durability, and cost savings.

### TSR - Low Voltage Surface Raceway

HellermannTyton's low voltage raceway (TSR) is a one piece, non-metallic, adhesive backed latching raceway designed to aesthetically organize and route communications wires, including high speed UTP cable and fiber optic cable, from the telecom room to the work area.

- Tamper resistant, self-locking, hidden positive latch permits quick re-entry as well as providing a secure installation of premise wire
- Fittings incorporate a minimum 1" bend radius per ANSI/TIA-568-C and 569-A standards
- Rubber-based, foam-tape adhesive with high ultimate bond strength conforms to any surface
- Flexible hinge allows the raceway to endure numerous openings without creating discoloration or stress cracking
- Manufactured from UL 94V-0 rated PVC material



Product Selection

| Article No.  | Part No.         | Type    | Description                      | Color        | Width | Height | Length | Carton Qty. |
|--------------|------------------|---------|----------------------------------|--------------|-------|--------|--------|-------------|
| TSR1 Raceway |                  |         |                                  |              |       |        |        |             |
| 250-01601    | <b>TSR1FW-6A</b> | TSR1-6A | 3/4" One Piece Surface Raceway   | Office White | 0.75" | .5"    | 6'     | 120'        |
| 250-01604    | <b>TSR1W-6A</b>  | TSR1-6A | 3/4" One Piece Surface Raceway   | White        | 0.75" | .5"    | 6'     | 120'        |
| 250-01602    | <b>TSR1I-6A</b>  | TSR1-6A | 3/4" One Piece Surface Raceway   | Ivory        | 0.75" | .5"    | 6'     | 120'        |
| 250-01800    | <b>TSR1FW-8A</b> | TSR1-8A | 3/4" One Piece Surface Raceway   | Office White | 0.75" | .5"    | 8'     | 160'        |
| 250-01802    | <b>TSR1W-8A</b>  | TSR1-8A | 3/4" One Piece Surface Raceway   | White        | 0.75" | .5"    | 8'     | 160'        |
| 250-01801    | <b>TSR1I-8A</b>  | TSR1-8A | 3/4" One Piece Surface Raceway   | Ivory        | 0.75" | .5"    | 8'     | 160'        |
| TSR2 Raceway |                  |         |                                  |              |       |        |        |             |
| 250-02601    | <b>TSR2FW-6A</b> | TSR2-6A | 1-1/4" One Piece Surface Raceway | Office White | 1.25" | .75"   | 6'     | 120'        |
| 250-02603    | <b>TSR2W-6A</b>  | TSR2-6A | 1-1/4" One Piece Surface Raceway | White        | 1.25" | .75"   | 6'     | 120'        |
| 250-02602    | <b>TSR2I-6A</b>  | TSR2-6A | 1-1/4" One Piece Surface Raceway | Ivory        | 1.25" | .75"   | 6'     | 120'        |
| 250-02800    | <b>TSR2FW-8A</b> | TSR2-8A | 1-1/4" One Piece Surface Raceway | Office White | 1.25" | .75"   | 8'     | 160'        |
| 250-02801    | <b>TSR2W-8A</b>  | TSR2-8A | 1-1/4" One Piece Surface Raceway | White        | 1.25" | .75"   | 8'     | 160'        |
| 250-02802    | <b>TSR2I-8A</b>  | TSR2-8A | 1-1/4" One Piece Surface Raceway | Ivory        | 1.25" | .75"   | 8'     | 160'        |
| TSR3 Raceway |                  |         |                                  |              |       |        |        |             |
| 250-03600    | <b>TSR3FW-6A</b> | TSR3-6A | 1-3/4" One Piece Surface Raceway | Office White | 1.75" | 1"     | 6'     | 120'        |
| 250-03602    | <b>TSR3W-6A</b>  | TSR3-6A | 1-3/4" One Piece Surface Raceway | White        | 1.75" | 1"     | 6'     | 120'        |
| 250-03601    | <b>TSR3I-6A</b>  | TSR3-6A | 1-3/4" One Piece Surface Raceway | Ivory        | 1.75" | 1"     | 6'     | 120'        |
| 250-03800    | <b>TSR3FW-8A</b> | TSR3-8A | 1-3/4" One Piece Surface Raceway | Office White | 1.75" | 1"     | 8'     | 160'        |
| 250-03802    | <b>TSR3W-8A</b>  | TSR3-8A | 1-3/4" One Piece Surface Raceway | White        | 1.75" | 1"     | 8'     | 160'        |
| 250-03801    | <b>TSR3I-8A</b>  | TSR3-8A | 1-3/4" One Piece Surface Raceway | Ivory        | 1.75" | 1"     | 8'     | 160'        |

Use **Part No.** for ordering and **Type** for specification purposes.

## TSR - Low Voltage Surface Raceway Accessories

HellermannTyton provides a complete line of fittings to manage connectivity requirements from the telecommunications room to the work area. Each size of raceway offers numerous fittings, offered in electrical ivory, white or office white, including ANSI/TIA-568-C compliant 1" bend radius accessories which help ensure consistent data transmission performance of Category 5e and 6 communications systems.

| Product Selection     |                    |           |                                           |              |           |
|-----------------------|--------------------|-----------|-------------------------------------------|--------------|-----------|
| Article No.           | Part No.           | Type      | Description                               | Color        | Pkg. Qty. |
| TSR1 Raceway Fittings |                    |           |                                           |              |           |
| 250-01141             | <b>TSR1FW-14</b>   | TSR1-14   | Splice Cover - 3/4"                       | Office White | 10        |
| 250-01402             | <b>TSR1W-14</b>    | TSR1-14   | Splice Cover - 3/4"                       | White        | 10        |
| 250-01401             | <b>TSR1I-14</b>    | TSR1-14   | Splice Cover - 3/4"                       | Ivory        | 10        |
| 250-01216             | <b>TSR1FW-21-1</b> | TSR1-21-1 | Tee Cover - 3/4" - 1" Bend Radius         | Office White | 10        |
| 250-01213             | <b>TSR1W-21-1</b>  | TSR1-21-1 | Tee Cover - 3/4" - 1" Bend Radius         | White        | 10        |
| 250-01211             | <b>TSR1I-21-1</b>  | TSR1-21-1 | Tee Cover - 3/4" - 1" Bend Radius         | Ivory        | 10        |
| 250-01252             | <b>TSR1FW-25-1</b> | TSR1-25-1 | Elbow Cover - 3/4" - 1" Bend Radius       | Office White | 10        |
| 250-01257             | <b>TSR1W-25-1</b>  | TSR1-25-1 | Elbow Cover - 3/4" - 1" Bend Radius       | White        | 10        |
| 250-01254             | <b>TSR1I-25-1</b>  | TSR1-25-1 | Elbow Cover - 3/4" - 1" Bend Radius       | Ivory        | 10        |
| 250-12904             | <b>TSR1FW-29-1</b> | TSR1-29-1 | External Corner - 3/4" - 1" Bend Radius   | Office White | 10        |
| 250-12912             | <b>TSR1W-29-1</b>  | TSR1-29-1 | External Corner - 3/4" - 1" Bend Radius   | White        | 10        |
| 250-12908             | <b>TSR1I-29-1</b>  | TSR1-29-1 | External Corner - 3/4" - 1" Bend Radius   | Ivory        | 10        |
| 250-01332             | <b>TSR1FW-33-1</b> | TSR1-33-1 | Internal Corner - 3/4" - 1" Bend Radius   | Office White | 10        |
| 250-01337             | <b>TSR1W-33-1</b>  | TSR1-33-1 | Internal Corner - 3/4" - 1" Bend Radius   | White        | 10        |
| 250-01334             | <b>TSR1I-33-1</b>  | TSR1-33-1 | Internal Corner - 3/4" - 1" Bend Radius   | Ivory        | 10        |
| 250-01361             | <b>TSR1FW-36</b>   | TSR1-36   | End Cap - 3/4"                            | Office White | 10        |
| 250-01363             | <b>TSR1W-36</b>    | TSR1-36   | End Cap - 3/4"                            | White        | 10        |
| 250-01362             | <b>TSR1I-36</b>    | TSR1-36   | End Cap - 3/4"                            | Ivory        | 10        |
| 250-01502             | <b>TSR1FW-50</b>   | TSR1-50   | Ceiling Drop - 3/4"                       | Office White | 10        |
| 250-01503             | <b>TSR1W-50</b>    | TSR1-50   | Ceiling Drop - 3/4"                       | White        | 10        |
| 250-01501             | <b>TSR1I-50</b>    | TSR1-50   | Ceiling Drop - 3/4"                       | Ivory        | 10        |
| TSR2 Raceway Fittings |                    |           |                                           |              |           |
| 250-02140             | <b>TSR2FW-14</b>   | TSR2-14   | Splice Cover - 1-1/4"                     | Office White | 10        |
| 250-02142             | <b>TSR2W-14</b>    | TSR2-14   | Splice Cover - 1-1/4"                     | White        | 10        |
| 250-02141             | <b>TSR2I-14</b>    | TSR2-14   | Splice Cover - 1-1/4"                     | Ivory        | 10        |
| 250-02213             | <b>TSR2FW-21-1</b> | TSR2-21-1 | Tee Cover - 1-1/4" - 1" Bend Radius       | Office White | 10        |
| 250-02215             | <b>TSR2W-21-1</b>  | TSR2-21-1 | Tee Cover - 1-1/4" - 1" Bend Radius       | White        | 10        |
| 250-02214             | <b>TSR2I-21-1</b>  | TSR2-21-1 | Tee Cover - 1-1/4" - 1" Bend Radius       | Ivory        | 10        |
| 250-02255             | <b>TSR2FW-25-1</b> | TSR2-25-1 | Elbow Cover - 1-1/4" - 1" Bend Radius     | Office White | 10        |
| 250-02253             | <b>TSR2W-25-1</b>  | TSR2-25-1 | Elbow Cover - 1-1/4" - 1" Bend Radius     | White        | 10        |
| 250-02256             | <b>TSR2I-25-1</b>  | TSR2-25-1 | Elbow Cover - 1-1/4" - 1" Bend Radius     | Ivory        | 10        |
| 250-22904             | <b>TSR2FW-29-1</b> | TSR2-29-1 | External Corner - 1-1/4" - 1" Bend Radius | Office White | 10        |
| 250-22903             | <b>TSR2W-29-1</b>  | TSR2-29-1 | External Corner - 1-1/4" - 1" Bend Radius | White        | 10        |
| 250-22906             | <b>TSR2I-29-1</b>  | TSR2-29-1 | External Corner - 1-1/4" - 1" Bend Radius | Ivory        | 10        |
| 250-02333             | <b>TSR2FW-33-1</b> | TSR2-33-1 | Internal Corner - 1-1/4" - 1" Bend Radius | Office White | 10        |
| 250-02335             | <b>TSR2W-33-1</b>  | TSR2-33-1 | Internal Corner - 1-1/4" - 1" Bend Radius | White        | 10        |
| 250-02334             | <b>TSR2I-33-1</b>  | TSR2-33-1 | Internal Corner - 1-1/4" - 1" Bend Radius | Ivory        | 10        |
| 250-02360             | <b>TSR2FW-36</b>   | TSR2-36   | End Cap - 1-1/4"                          | Office White | 10        |
| 250-02362             | <b>TSR2W-36</b>    | TSR2-36   | End Cap - 1-1/4"                          | White        | 10        |
| 250-02361             | <b>TSR2I-36</b>    | TSR2-36   | End Cap - 1-1/4"                          | Ivory        | 10        |
| 250-02500             | <b>TSR2FW-50</b>   | TSR2-50   | Ceiling Drop - 1-1/4"                     | Office White | 10        |
| 250-02504             | <b>TSR2W-50</b>    | TSR2-50   | Ceiling Drop - 1-1/4"                     | White        | 10        |
| 250-02501             | <b>TSR2I-50</b>    | TSR2-50   | Ceiling Drop - 1-1/4"                     | Ivory        | 10        |



Splice Cover



Tee Cover



Elbow Cover



External Corner



Internal Corner



End Cap



Ceiling Drop

## Routing and Raceway Products

### TSR - Low Voltage Surface Raceway Accessories

#### Product Selection

| Article No.           | Part No.           | Type      | Description                               | Color        | Pkg. Qty. |
|-----------------------|--------------------|-----------|-------------------------------------------|--------------|-----------|
| TSR3 Raceway Fittings |                    |           |                                           |              |           |
| 250-03140             | <b>TSR3FW-14</b>   | TSR3-14   | Splice Cover - 1-3/4"                     | Office White | 10        |
| 250-03142             | <b>TSR3W-14</b>    | TSR3-14   | Splice Cover - 1-3/4"                     | White        | 10        |
| 250-03141             | <b>TSR3I-14</b>    | TSR3-14   | Splice Cover - 1-3/4"                     | Ivory        | 10        |
| 250-03214             | <b>TSR3FW-21-1</b> | TSR3-21-1 | Tee Cover - 1-3/4" - 1" Bend Radius       | Office White | 10        |
| 250-03213             | <b>TSR3W-21-1</b>  | TSR3-21-1 | Tee Cover - 1-3/4" - 1" Bend Radius       | White        | 10        |
| 250-03215             | <b>TSR3I-21-1</b>  | TSR3-21-1 | Tee Cover - 1-3/4" - 1" Bend Radius       | Ivory        | 10        |
| 250-03253             | <b>TSR3FW-25-1</b> | TSR3-25-1 | Elbow Cover - 1-3/4" - 1" Bend Radius     | Office White | 10        |
| 250-03255             | <b>TSR3W-25-1</b>  | TSR3-25-1 | Elbow Cover - 1-3/4" - 1" Bend Radius     | White        | 10        |
| 250-03254             | <b>TSR3I-25-1</b>  | TSR3-25-1 | Elbow Cover - 1-3/4" - 1" Bend Radius     | Ivory        | 10        |
| 250-32903             | <b>TSR3FW-29-1</b> | TSR3-29-1 | External Corner - 1-3/4" - 1" Bend Radius | Office White | 10        |
| 250-32905             | <b>TSR3W-29-1</b>  | TSR3-29-1 | External Corner - 1-3/4" - 1" Bend Radius | White        | 10        |
| 250-32904             | <b>TSR3I-29-1</b>  | TSR3-29-1 | External Corner - 1-3/4" - 1" Bend Radius | Ivory        | 10        |
| 250-03333             | <b>TSR3FW-33-1</b> | TSR3-33-1 | Internal Corner - 1-3/4" - 1" Bend Radius | Office White | 10        |
| 250-03335             | <b>TSR3W-33-1</b>  | TSR3-33-1 | Internal Corner - 1-3/4" - 1" Bend Radius | White        | 10        |
| 250-03334             | <b>TSR3I-33-1</b>  | TSR3-33-1 | Internal Corner - 1-3/4" - 1" Bend Radius | Ivory        | 10        |
| 250-03360             | <b>TSR3FW-36</b>   | TSR3-36   | End Cap - 1-3/4"                          | Office White | 10        |
| 250-03362             | <b>TSR3W-36</b>    | TSR3-36   | End Cap - 1-3/4"                          | White        | 10        |
| 250-03361             | <b>TSR3I-36</b>    | TSR3-36   | End Cap - 1-3/4"                          | Ivory        | 10        |
| 250-03500             | <b>TSR3FW-50</b>   | TSR3-50   | Ceiling Drop - 1-3/4"                     | Office White | 10        |
| 250-03502             | <b>TSR3W-50</b>    | TSR3-50   | Ceiling Drop - 1-3/4"                     | White        | 10        |
| 250-03501             | <b>TSR3I-50</b>    | TSR3-50   | Ceiling Drop - 1-3/4"                     | Ivory        | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.



Splice Cover



Tee Cover



Elbow Cover



External Corner



Internal Corner



End Cap



Ceiling Drop

### Reducers

#### Product Selection

| Article No. | Part No.         | Type    | Description                               | Color        | Pkg. Qty. |
|-------------|------------------|---------|-------------------------------------------|--------------|-----------|
| 250-01120   | <b>TSR1FW-12</b> | TSR1-12 | Reducer - 1-3/4" to 1-1/4" (TSR3 to TSR2) | Office White | 10        |
| 250-01124   | <b>TSR1W-12</b>  | TSR1-12 | Reducer - 1-3/4" to 1-1/4" (TSR3 to TSR2) | White        | 10        |
| 250-01122   | <b>TSR1I-12</b>  | TSR1-12 | Reducer - 1-3/4" to 1-1/4" (TSR3 to TSR2) | Ivory        | 10        |
| 250-02120   | <b>TSR2FW-12</b> | TSR2-12 | Reducer - 1-3/4" to 3/4" (TSR3 to TSR1)   | Office White | 10        |
| 250-02122   | <b>TSR2W-12</b>  | TSR2-12 | Reducer - 1-3/4" to 3/4" (TSR3 to TSR1)   | White        | 10        |
| 250-02121   | <b>TSR2I-12</b>  | TSR2-12 | Reducer - 1-3/4" to 3/4" (TSR3 to TSR1)   | Ivory        | 10        |
| 250-03120   | <b>TSR3FW-12</b> | TSR3-12 | Reducer - 1-1/4" to 3/4" (TSR2 to TSR1)   | Office White | 10        |
| 250-03122   | <b>TSR3W-12</b>  | TSR3-12 | Reducer - 1-1/4" to 3/4" (TSR2 to TSR1)   | White        | 10        |
| 250-03121   | <b>TSR3I-12</b>  | TSR3-12 | Reducer - 1-1/4" to 3/4" (TSR2 to TSR1)   | Ivory        | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.



Reducer

## Junction Boxes

Offered in a dual or single gang format, HellermannTyton's low voltage junction boxes are versatile enough for any network cabling application. Available in varying depths, these boxes are all equipped with concentric knockouts on all four sides for every TSR size of raceway, which eliminates routing and installation inconvenience. All five styles of junction boxes come with adhesive strips for the back of the base, and also #6 screws to secure the box to the base.



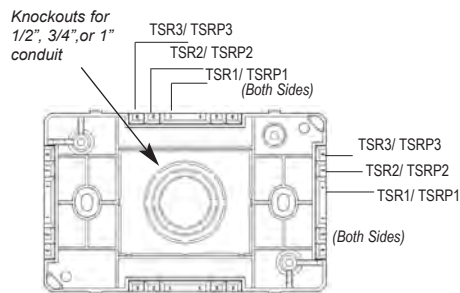
### Product Selection

| Article No. | Part No.          | Type     | Description              | Color        | Width | Height | Length | Pkg. Qty. |
|-------------|-------------------|----------|--------------------------|--------------|-------|--------|--------|-----------|
| 250-10001   | <b>TSRFW-JB1</b>  | TSR-JB1  | Single Gang Junction Box | Office White | 3"    | 1.25"  | 4.75"  | 1         |
| 250-10009   | <b>TSRW-JB1</b>   | TSR-JB1  | Single Gang Junction Box | White        | 3"    | 1.25"  | 4.75"  | 1         |
| 250-10004   | <b>TSRI-JB1</b>   | TSR-JB1  | Single Gang Junction Box | Ivory        | 3"    | 1.25"  | 4.75"  | 1         |
| 250-10002   | <b>TSRFW-JB2</b>  | TSR-JB2  | Single Gang Junction Box | Office White | 3"    | 2"     | 4.75"  | 1         |
| 250-10010   | <b>TSRW-JB2</b>   | TSR-JB2  | Single Gang Junction Box | White        | 3"    | 2"     | 4.75"  | 1         |
| 250-10005   | <b>TSRI-JB2</b>   | TSR-JB2  | Single Gang Junction Box | Ivory        | 3"    | 2"     | 4.75"  | 1         |
| 250-00191   | <b>TSRFW-JB3</b>  | TSR-JB3  | Single Gang Junction Box | Office White | 3.2"  | 2.77"  | 4.95"  | 1         |
| 250-00192   | <b>TSRW-JB3</b>   | TSR-JB3  | Single Gang Junction Box | White        | 3.2"  | 2.77"  | 4.95"  | 1         |
| 250-00193   | <b>TSRI-JB3</b>   | TSR-JB3  | Single Gang Junction Box | Ivory        | 3.2"  | 2.77"  | 4.95"  | 1         |
| 250-10003   | <b>TSRFW-JBD</b>  | TSR-JBD  | Dual Gang Junction Box   | Office White | 4.91" | 1.5"   | 4.83"  | 1         |
| 250-10013   | <b>TSRW-JBD</b>   | TSR-JBD  | Dual Gang Junction Box   | White        | 4.91" | 1.5"   | 4.83"  | 1         |
| 250-10008   | <b>TSRI-JBD</b>   | TSR-JBD  | Dual Gang Junction Box   | Ivory        | 4.91" | 1.5"   | 4.83"  | 1         |
| 250-20001   | <b>TSRFW-JBD2</b> | TSR-JBD2 | Dual Gang Junction Box   | Office White | 5.02" | 2.77"  | 4.94"  | 1         |
| 250-20000   | <b>TSRW-JBD2</b>  | TSR-JBD2 | Dual Gang Junction Box   | White        | 5.02" | 2.77"  | 4.94"  | 1         |
| 250-20002   | <b>TSRI-JBD2</b>  | TSR-JBD2 | Dual Gang Junction Box   | Ivory        | 5.02" | 2.77"  | 4.94"  | 1         |

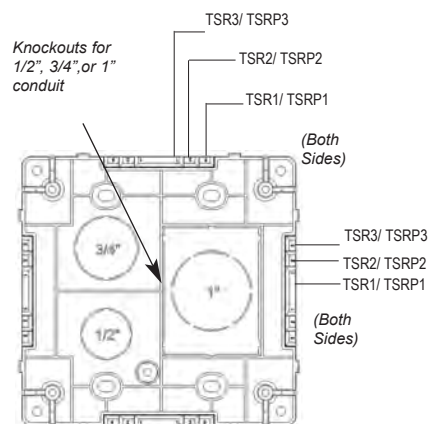
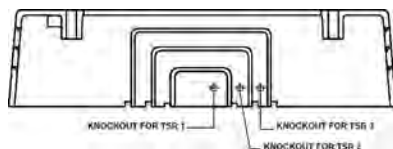
Use **Part No.** for ordering and **Type** for specification purposes.

\*Recommend using the TSRX-JB2, TSRX-JB3 AND TSRX-JBD2 for voice and data applications

## TSR and TSRP Junction Box Knockout Locations



**JB1, JB2, JB3 -  
SINGLE GANG**

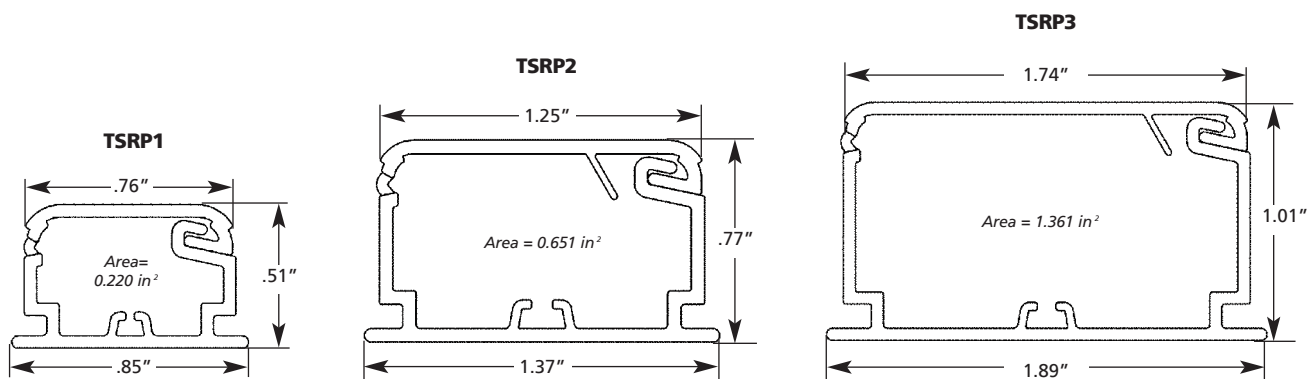


**JBD, JBD2 -  
DUAL GANG**

## TSRP - Power Rated Surface Raceway

HellermannTyton's TSRP power surface raceway is a one piece, non-metallic, adhesive backed latching raceway designed to aesthetically organize and route either power or communications cables. Completely tamper resistant, the cover's self-locking, hidden positive latch permits quick re-entry as well as providing a secure installation of power cables.

- UL Listed for power up to 600 Volts, meeting UL5A and CSA 22.2 Number 62-93
- Manufactured from UL 94V-0 rated PVC material
- Large base for greater adhesive surface
- Junction boxes can be used for electrical or data outlets
- Fittings incorporate a minimum 1" bend radius per ANSI/TIA-568-C and 569-A
- Rubber-based foam tape adhesive with high ultimate bond strength, which conforms to any surface
- Flexible hinge allows the raceway to endure numerous openings without creating discoloration or stress cracking
- Designed to complement HellermannTyton's industry standard TSR low voltage raceway system



### Product Selection

| Article No.   | Part No.          | Type     | Description                      | Color        | Width | Height | Length | Carton Qty. |
|---------------|-------------------|----------|----------------------------------|--------------|-------|--------|--------|-------------|
| TSRP1 Raceway |                   |          |                                  |              |       |        |        |             |
| 250-61600     | <b>TSRP1FW-6A</b> | TSRP1-6A | 3/4" One Piece Surface Raceway   | Office White | .75"  | .5"    | 6'     | 120'        |
| 250-61602     | <b>TSRP1W-6A</b>  | TSRP1-6A | 3/4" One Piece Surface Raceway   | White        | .75"  | .5"    | 6'     | 120'        |
| 250-61601     | <b>TSRP1I-6A</b>  | TSRP1-6A | 3/4" One Piece Surface Raceway   | Ivory        | .75"  | .5"    | 6'     | 120'        |
| 250-61800     | <b>TSRP1FW-8A</b> | TSRP1-8A | 3/4" One Piece Surface Raceway   | Office White | .75"  | .5"    | 8'     | 160'        |
| 250-61802     | <b>TSRP1W-8A</b>  | TSRP1-8A | 3/4" One Piece Surface Raceway   | White        | .75"  | .5"    | 8'     | 160'        |
| 250-61801     | <b>TSRP1I-8A</b>  | TSRP1-8A | 3/4" One Piece Surface Raceway   | Ivory        | .75"  | .5"    | 8'     | 160'        |
| TSRP2 Raceway |                   |          |                                  |              |       |        |        |             |
| 250-62600     | <b>TSRP2FW-6A</b> | TSRP2-6A | 1-1/4" One Piece Surface Raceway | Office White | 1.25" | .75"   | 6'     | 120'        |
| 250-62602     | <b>TSRP2W-6A</b>  | TSRP2-6A | 1-1/4" One Piece Surface Raceway | White        | 1.25" | .75"   | 6'     | 120'        |
| 250-62601     | <b>TSRP2I-6A</b>  | TSRP2-6A | 1-1/4" One Piece Surface Raceway | Ivory        | 1.25" | .75"   | 6'     | 120'        |
| 250-62800     | <b>TSRP2FW-8A</b> | TSRP2-8A | 1-1/4" One Piece Surface Raceway | Office White | 1.25" | .75"   | 8'     | 160'        |
| 250-62802     | <b>TSRP2W-8A</b>  | TSRP2-8A | 1-1/4" One Piece Surface Raceway | White        | 1.25" | .75"   | 8'     | 160'        |
| 250-62801     | <b>TSRP2I-8A</b>  | TSRP2-8A | 1-1/4" One Piece Surface Raceway | Ivory        | 1.25" | .75"   | 8'     | 160'        |
| TSRP3 Raceway |                   |          |                                  |              |       |        |        |             |
| 250-63600     | <b>TSRP3FW-6A</b> | TSRP3-6A | 1-3/4" One Piece Surface Raceway | Office White | 1.75" | 1"     | 6'     | 120'        |
| 250-63602     | <b>TSRP3W-6A</b>  | TSRP3-6A | 1-3/4" One Piece Surface Raceway | White        | 1.75" | 1"     | 6'     | 120'        |
| 250-63601     | <b>TSRP3I-6A</b>  | TSRP3-6A | 1-3/4" One Piece Surface Raceway | Ivory        | 1.75" | 1"     | 6'     | 120'        |
| 250-63800     | <b>TSRP3FW-8A</b> | TSRP3-8A | 1-3/4" One Piece Surface Raceway | Office White | 1.75" | 1"     | 8'     | 160'        |
| 250-63802     | <b>TSRP3W-8A</b>  | TSRP3-8A | 1-3/4" One Piece Surface Raceway | White        | 1.75" | 1"     | 8'     | 160'        |
| 250-63801     | <b>TSRP3I-8A</b>  | TSRP3-8A | 1-3/4" One Piece Surface Raceway | Ivory        | 1.75" | 1"     | 8'     | 160'        |

Use **Part No.** for ordering and **Type** for specification purposes.

## TSRP — Power Surface Raceway Accessories

HellermannTyton provides a complete line of fittings to manage connectivity requirements from the telecommunications room to the work area. Each size of raceway offers numerous fittings, offered in electrical ivory, white or office white, including ANSI/TIA-568-C compliant 1" bend radius accessories which help ensure consistent data transmission performance of Category 5e and 6 communications systems.

| Product Selection      |                     |            |                                           |              |           |
|------------------------|---------------------|------------|-------------------------------------------|--------------|-----------|
| Article No.            | Part No.            | Type       | Description                               | Color        | Pkg. Qty. |
| TSRP1 Raceway Fittings |                     |            |                                           |              |           |
| 250-61140              | <b>TSRP1FW-14</b>   | TSRP1-14   | Splice Cover - 3/4"                       | Office White | 10        |
| 250-61142              | <b>TSRP1W-14</b>    | TSRP1-14   | Splice Cover - 3/4"                       | White        | 10        |
| 250-61141              | <b>TSRP1I-14</b>    | TSRP1-14   | Splice Cover - 3/4"                       | Ivory        | 10        |
| 250-61214              | <b>TSRP1FW-21-1</b> | TSRP1-21-1 | Tee - 3/4" - 1" Bend Radius               | Office White | 10        |
| 250-61212              | <b>TSRP1W-21-1</b>  | TSRP1-21-1 | Tee - 3/4" - 1" Bend Radius               | White        | 10        |
| 250-61210              | <b>TSRP1I-21-1</b>  | TSRP1-21-1 | Tee - 3/4" - 1" Bend Radius               | Ivory        | 10        |
| 250-61250              | <b>TSRP1FW-25-1</b> | TSRP1-25-1 | Elbow - 3/4" - 1" Bend Radius             | Office White | 10        |
| 250-61253              | <b>TSRP1W-25-1</b>  | TSRP1-25-1 | Elbow - 3/4" - 1" Bend Radius             | White        | 10        |
| 250-61251              | <b>TSRP1I-25-1</b>  | TSRP1-25-1 | Elbow - 3/4" - 1" Bend Radius             | Ivory        | 10        |
| 250-61290              | <b>TSRP1FW-29-1</b> | TSRP1-29-1 | External Corner - 3/4" - 1" Bend Radius   | Office White | 10        |
| 250-61294              | <b>TSRP1W-29-1</b>  | TSRP1-29-1 | External Corner - 3/4" - 1" Bend Radius   | White        | 10        |
| 250-61292              | <b>TSRP1I-29-1</b>  | TSRP1-29-1 | External Corner - 3/4" - 1" Bend Radius   | Ivory        | 10        |
| 250-61330              | <b>TSRP1FW-33-1</b> | TSRP1-33-1 | Internal Cover - 3/4" - 1" Bend Radius    | Office White | 10        |
| 250-61333              | <b>TSRP1W-33-1</b>  | TSRP1-33-1 | Internal Cover - 3/4" - 1" Bend Radius    | White        | 10        |
| 250-61331              | <b>TSRP1I-33-1</b>  | TSRP1-33-1 | Internal Cover - 3/4" - 1" Bend Radius    | Ivory        | 10        |
| 250-61360              | <b>TSRP1FW-36</b>   | TSRP1-36   | End Cap - 3/4"                            | Office White | 10        |
| 250-61362              | <b>TSRP1W-36</b>    | TSRP1-36   | End Cap - 3/4"                            | White        | 10        |
| 250-61361              | <b>TSRP1I-36</b>    | TSRP1-36   | End Cap - 3/4"                            | Ivory        | 10        |
| 250-61500              | <b>TSRP1FW-50</b>   | TSRP1-50   | Ceiling Drop - 3/4"                       | Office White | 10        |
| 250-61502              | <b>TSRP1W-50</b>    | TSRP1-50   | Ceiling Drop - 3/4"                       | White        | 10        |
| 250-61501              | <b>TSRP1I-50</b>    | TSRP1-50   | Ceiling Drop - 3/4"                       | Ivory        | 10        |
| TSRP2 Raceway Fittings |                     |            |                                           |              |           |
| 250-62140              | <b>TSRP2FW-14</b>   | TSRP2-14   | Splice Cover - 1-1/4"                     | Office White | 10        |
| 250-62142              | <b>TSRP2W-14</b>    | TSRP2-14   | Splice Cover - 1-1/4"                     | White        | 10        |
| 250-62141              | <b>TSRP2I-14</b>    | TSRP2-14   | Splice Cover - 1-1/4"                     | Ivory        | 10        |
| 250-62210              | <b>TSRP2FW-21-1</b> | TSRP2-21-1 | Tee - 1-1/4" - 1" Bend Radius             | Office White | 10        |
| 250-62214              | <b>TSRP2W-21-1</b>  | TSRP2-21-1 | Tee - 1-1/4" - 1" Bend Radius             | White        | 10        |
| 250-62212              | <b>TSRP2I-21-1</b>  | TSRP2-21-1 | Tee - 1-1/4" - 1" Bend Radius             | Ivory        | 10        |
| 250-62250              | <b>TSRP2FW-25-1</b> | TSRP2-25-1 | Elbow - 1-1/4" - 1" Bend Radius           | Office White | 10        |
| 250-62253              | <b>TSRP2W-25-1</b>  | TSRP2-25-1 | Elbow - 1-1/4" - 1" Bend Radius           | White        | 10        |
| 250-62251              | <b>TSRP2I-25-1</b>  | TSRP2-25-1 | Elbow - 1-1/4" - 1" Bend Radius           | Ivory        | 10        |
| 250-62291              | <b>TSRP2FW-29-1</b> | TSRP2-29-1 | External Corner - 1-1/4" - 1" Bend Radius | Office White | 10        |
| 250-62295              | <b>TSRP2W-29-1</b>  | TSRP2-29-1 | External Corner - 1-1/4" - 1" Bend Radius | White        | 10        |
| 250-62293              | <b>TSRP2I-29-1</b>  | TSRP2-29-1 | External Corner - 1-1/4" - 1" Bend Radius | Ivory        | 10        |
| 250-62330              | <b>TSRP2FW-33-1</b> | TSRP2-33-1 | Internal Corner - 1-1/4" - 1" Bend Radius | Office White | 10        |
| 250-62335              | <b>TSR2W-33-1</b>   | TSR2-33-1  | Internal Corner - 1-1/4" - 1" Bend Radius | White        | 10        |
| 250-62332              | <b>TSRP2I-33-1</b>  | TSRP2-33-1 | Internal Corner - 1-1/4" - 1" Bend Radius | Ivory        | 10        |
| 250-62360              | <b>TSRP2FW-36</b>   | TSRP2-36   | End Cap - 1-1/4"                          | Office White | 10        |
| 250-62362              | <b>TSRP2W-36</b>    | TSRP2-36   | End Cap - 1-1/4"                          | White        | 10        |
| 250-62361              | <b>TSRP2I-36</b>    | TSRP2-36   | End Cap - 1-1/4"                          | Ivory        | 10        |
| 250-62500              | <b>TSRP2FW-50</b>   | TSRP2-50   | Ceiling Drop - 1-1/4"                     | Office White | 10        |
| 250-62502              | <b>TSRP2W-50</b>    | TSRP2-50   | Ceiling Drop - 1-1/4"                     | White        | 10        |
| 250-62501              | <b>TSRP2I-50</b>    | TSRP2-50   | Ceiling Drop - 1-1/4"                     | Ivory        | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.



Splice Cover



Tee Cover



Elbow Cover



External Corner



Internal Corner



End Cap



Ceiling Drop

# Routing and Raceway Products

## TSRP — Power Surface Raceway Accessories

### Product Selection

| Article No.            | Part No.            | Type       | Description                             | Color        | Pkg. Qty. |
|------------------------|---------------------|------------|-----------------------------------------|--------------|-----------|
| TSRP3 Raceway Fittings |                     |            |                                         |              |           |
| 250-63140              | <b>TSRP3FW-14</b>   | TSRP3-14   | Splice Cover - 1-3/4"                   | Office White | 10        |
| 250-63142              | <b>TSRP3W-14</b>    | TSRP3-14   | Splice Cover - 1-3/4"                   | White        | 10        |
| 250-63141              | <b>TSRP3I-14</b>    | TSRP3-14   | Splice Cover - 1-3/4"                   | Ivory        | 10        |
| 250-63210              | <b>TSRP3FW-21-1</b> | TSRP3-21-1 | Tee -1-3/4" - 1" Bend Radius            | Office White | 10        |
| 250-63214              | <b>TSRP3W-21-1</b>  | TSRP3-21-1 | Tee -1-3/4" - 1" Bend Radius            | White        | 10        |
| 250-63212              | <b>TSRP3I-21-1</b>  | TSRP3-21-1 | Tee -1-3/4" - 1" Bend Radius            | Ivory        | 10        |
| 250-63250              | <b>TSRP3FW-25-1</b> | TSRP3-25-1 | Elbow -1-3/4" - 1" Bend Radius          | Office White | 10        |
| 250-63254              | <b>TSRP3W-25-1</b>  | TSRP3-25-1 | Elbow -1-3/4" - 1" Bend Radius          | White        | 10        |
| 250-63252              | <b>TSRP3I-25-1</b>  | TSRP3-25-1 | Elbow -1-3/4" - 1" Bend Radius          | Ivory        | 10        |
| 250-63290              | <b>TSRP3FW-29-1</b> | TSRP3-29-1 | External Corner - 1-3/4" 1" Bend Radius | Office White | 10        |
| 250-63294              | <b>TSRP3W-29-1</b>  | TSRP3-29-1 | External Corner - 1-3/4" 1" Bend Radius | White        | 10        |
| 250-63292              | <b>TSRP3I-29-1</b>  | TSRP3-29-1 | External Corner - 1-3/4" 1" Bend Radius | Ivory        | 10        |
| 250-63330              | <b>TSRP3FW-33-1</b> | TSRP3-33-1 | Internal Corner - 1-3/4" 1" Bend Radius | Office White | 10        |
| 250-63334              | <b>TSRP3W-33-1</b>  | TSRP3-33-1 | Internal Corner - 1-3/4" 1" Bend Radius | White        | 10        |
| 250-63332              | <b>TSRP3I-33-1</b>  | TSRP3-33-1 | Internal Corner - 1-3/4" 1" Bend Radius | Ivory        | 10        |
| 250-63360              | <b>TSRP3FW-36</b>   | TSRP3-36   | End Cap - 1-3/4"                        | Office White | 10        |
| 250-63361              | <b>TSRP3I-36</b>    | TSRP3-36   | End Cap - 1-3/4"                        | Ivory        | 10        |
| 250-63362              | <b>TSRP3W-36</b>    | TSRP3-36   | End Cap - 1-3/4"                        | White        | 10        |
| 250-63500              | <b>TSRP3FW-50</b>   | TSRP3-50   | Ceiling Drop - 1-3/4"                   | Office White | 10        |
| 250-63504              | <b>TSRP3W-50</b>    | TSRP3-50   | Ceiling Drop - 1-3/4"                   | White        | 10        |
| 250-63502              | <b>TSRP3I-50</b>    | TSRP3-50   | Ceiling Drop - 1-3/4"                   | Ivory        | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.



Splice Cover



Tee Cover



Elbow Cover



External Corner



Internal Corner



End Cap



Ceiling Drop

## Reducers

### Product Selection

| Article No. | Part No.          | Type     | Description                                 | Color        | Pkg. Qty. |
|-------------|-------------------|----------|---------------------------------------------|--------------|-----------|
| 250-61120   | <b>TSRP1FW-12</b> | TSRP1-12 | Reducer - 1-3/4" to 1-1/4" (TSRP3 to TSRP2) | Office White | 10        |
| 250-61122   | <b>TSRP1W-12</b>  | TSRP1-12 | Reducer - 1-3/4" to 1-1/4" (TSRP3 to TSRP2) | White        | 10        |
| 250-61121   | <b>TSRP1I-12</b>  | TSRP1-12 | Reducer - 1-3/4" to 1-1/4" (TSRP3 to TSRP2) | Ivory        | 10        |
| 250-62120   | <b>TSRP2FW-12</b> | TSRP2-12 | Reducer - 1-3/4" to 3/4" (TSRP3 to TSRP1)   | Office White | 10        |
| 250-62122   | <b>TSRP2W-12</b>  | TSRP2-12 | Reducer - 1-3/4" to 3/4" (TSRP3 to TSRP1)   | White        | 10        |
| 250-62121   | <b>TSRP2I-12</b>  | TSRP2-12 | Reducer - 1-3/4" to 3/4" (TSRP3 to TSRP1)   | Ivory        | 10        |
| 250-63120   | <b>TSRP3FW-12</b> | TSRP3-12 | Reducer - 1-1/4" to 3/4" (TSRP2 to TSRP1)   | Office White | 10        |
| 250-63122   | <b>TSRP3W-12</b>  | TSRP3-12 | Reducer - 1-1/4" to 3/4" (TSRP2 to TSRP1)   | White        | 10        |
| 250-63121   | <b>TSRP3I-12</b>  | TSRP3-12 | Reducer - 1-1/4" to 3/4" (TSRP2 to TSRP1)   | Ivory        | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.



Reducer

## Junction Boxes

Offered in a dual or single gang format, HellermannTyton's power rated junction boxes are versatile enough for any network cabling application. Available in varying depths, these boxes are all equipped with concentric knockouts on all four sides for every TSRP size of raceway, which eliminates routing and installation inconvenience. All three styles of junction boxes come with adhesive strips for the back of the base and #6 screws to secure the box to the base.



### Product Selection

| Article No. | Part No.          | Type     | Description              | Color        | Width | Height | Length | Pkg. Qty. |
|-------------|-------------------|----------|--------------------------|--------------|-------|--------|--------|-----------|
| 250-60001   | <b>TSRPFW-JB1</b> | TSRP-JB1 | Single Gang Junction Box | Office White | 3"    | 1.25"  | 4.75"  | 1         |
| 250-60004   | <b>TSRPI-JB1</b>  | TSRP-JB1 | Single Gang Junction Box | Ivory        | 3"    | 1.25"  | 4.75"  | 1         |
| 250-60007   | <b>TSRPI-JB1</b>  | TSRP-JB1 | Single Gang Junction Box | White        | 3"    | 1.25"  | 4.75"  | 1         |
| 250-60002   | <b>TSRPFW-JB2</b> | TSRP-JB2 | Single Gang Junction Box | Office White | 3"    | 2"     | 4.75"  | 1         |
| 250-60005   | <b>TSRPI-JB2</b>  | TSRP-JB2 | Single Gang Junction Box | Ivory        | 3"    | 2"     | 4.75"  | 1         |
| 250-60008   | <b>TSRPFW-JB2</b> | TSRP-JB2 | Single Gang Junction Box | White        | 3"    | 2"     | 4.75"  | 1         |
| 250-60003   | <b>TSRPFW-JBD</b> | TSRP-JBD | Dual Gang Junction Box   | Office White | 4.91" | 1.5"   | 4.83"  | 1         |
| 250-60006   | <b>TSRPI-JBD</b>  | TSRP-JBD | Dual Gang Junction Box   | Ivory        | 4.91" | 1.5"   | 4.83"  | 1         |
| 250-60009   | <b>TSRPFW-JBD</b> | TSRP-JBD | Dual Gang Junction Box   | White        | 4.91" | 1.5"   | 4.83"  | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

TSRPFW-JBD2 and TSRPI-JBD3 are in development. Please contact customer service for availability

## TSR and TSRP Surface Raceway Systems

### Wire Fill Chart

| O.D. of<br>Wire Type    Wire Size    Wire                 |                     |              | Low Voltage - TSR                 |          |                                   |           |                                   |           | Power Rated - TSRP                  |          |                                     |           |                                    |           |
|-----------------------------------------------------------|---------------------|--------------|-----------------------------------|----------|-----------------------------------|-----------|-----------------------------------|-----------|-------------------------------------|----------|-------------------------------------|-----------|------------------------------------|-----------|
|                                                           |                     |              | TSR1<br>A = 0.220 in <sup>2</sup> |          | TSR2<br>A = 0.675 in <sup>2</sup> |           | TSR3<br>A = 1.384 in <sup>2</sup> |           | TSRP 1<br>A = 0.220 in <sup>2</sup> |          | TSRP 2<br>A = 0.651 in <sup>2</sup> |           | TSRP3<br>A = 1.361 in <sup>2</sup> |           |
|                                                           |                     |              | Spec                              | Max      | Spec                              | Max       | Spec                              | Max       | Spec                                | Max      | Spec                                | Max       | Spec                               | Max       |
| <b>Twisted Pair</b><br><b>24 AWG</b><br><b>Unshielded</b> | 2 Pr.               | 0.140        | 5                                 | 8        | 17                                | 26        | 35                                | 53        | 5                                   | 8        | 16                                  | 25        | 35                                 | 53        |
|                                                           | 3 Pr.               | 0.150        | 4                                 | 7        | 15                                | 22        | 31                                | 46        | 4                                   | 7        | 14                                  | 22        | 30                                 | 46        |
|                                                           | <b>4 Pr. Cat 5e</b> | <b>0.217</b> | <b>2</b>                          | <b>3</b> | <b>7</b>                          | <b>10</b> | <b>14</b>                         | <b>22</b> | <b>2</b>                            | <b>3</b> | <b>7</b>                            | <b>10</b> | <b>14</b>                          | <b>22</b> |
|                                                           | <b>4 Pr. Cat 6</b>  | <b>0.240</b> | <b>1</b>                          | <b>2</b> | <b>5</b>                          | <b>8</b>  | <b>12</b>                         | <b>18</b> | <b>1</b>                            | <b>2</b> | <b>5</b>                            | <b>8</b>  | <b>12</b>                          | <b>18</b> |
|                                                           | 25 Pr.              | 0.410        | 0                                 | 0        | 2                                 | 3         | 4                                 | 6         | 0                                   | 0        | 1                                   | 2         | 4                                  | 6         |
|                                                           | <b>4 Pr. Cat 6A</b> | <b>0.354</b> | <b>0</b>                          | <b>1</b> | <b>2</b>                          | <b>4</b>  | <b>5</b>                          | <b>8</b>  | <b>0</b>                            | <b>1</b> | <b>2</b>                            | <b>3</b>  | <b>5</b>                           | <b>8</b>  |
| <b>Coax</b>                                               | RG58/U              | 0.193        | 3                                 | 4        | 9                                 | 13        | 18                                | 28        | 2                                   | 4        | 8                                   | 13        | 18                                 | 27        |
|                                                           | RG59/U or RG62/U    | 0.242        | 1                                 | 2        | 5                                 | 8         | 12                                | 18        | 1                                   | 2        | 4                                   | 6         | 9                                  | 14        |
|                                                           | RG6/U               | 0.270        | 1                                 | 2        | 4                                 | 7         | 9                                 | 14        | 1                                   | 2        | 4                                   | 6         | 9                                  | 14        |
| <b>Fiber Optic</b><br><b>FA Jacket</b><br><b>OFNP</b>     | 2 Strand            | 0.175        | 3                                 | 5        | 11                                | 16        | 23                                | 34        | 3                                   | 5        | 10                                  | 16        | 22                                 | 33        |
|                                                           | 4 Strand            | 0.185        | 3                                 | 4        | 10                                | 15        | 20                                | 30        | 3                                   | 4        | 9                                   | 14        | 20                                 | 30        |
|                                                           | 6 Strand            | 0.210        | 2                                 | 3        | 7                                 | 11        | 15                                | 23        | 2                                   | 3        | 7                                   | 11        | 15                                 | 23        |
| <b>Electrical Wire</b>                                    | 14 AWG THHN         | 0.105        | -                                 | -        | -                                 | -         | -                                 | -         | -                                   | 8        | -                                   | 11        | -                                  | 15        |
|                                                           | 12 AWG THHN         | 0.122        | -                                 | -        | -                                 | -         | -                                 | -         | -                                   | 6        | -                                   | 9         | -                                  | 12        |
|                                                           | 10 AWG THHN         | 0.153        | -                                 | -        | -                                 | -         | -                                 | -         | -                                   | 4        | -                                   | 6         | -                                  | 7         |

Formula used to calculate communications wire fill capacity - Numbers of wires = duct / {1/4 x 3.14 x (wire o.d.)<sup>2</sup>} x 0.4 or 0.6. Per ANSI/TIA/EIA-569-A:-

SPEC = 40% fill which is recommended for planning perimeter pathways

MAX (for data) = 60% fill which is allowed to accommodate unplanned additions after initial installation

MAX (for power) = Maximum number determined by UL temperature testing

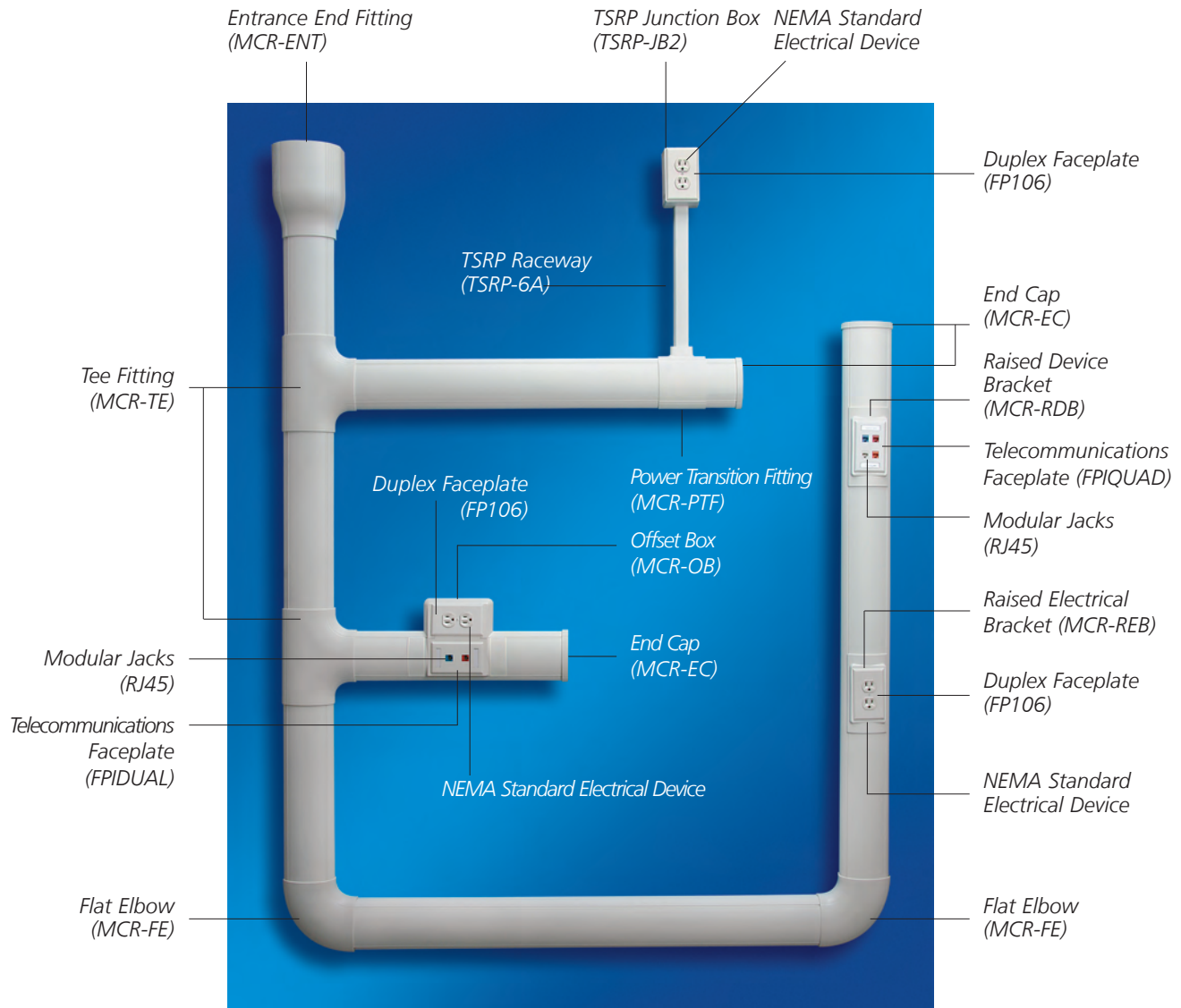
Note: It is recommended to place electrical cables loosely in raceway

## INFOSTREAM® Multi-Channel Raceway

HellermannTyton's InfoStream is a revolutionary design for a non-metallic raceway system. The elliptical shape is aesthetically pleasing when compared to other designs. By using the three rails to snap in dividers, the InfoStream system can accommodate up to four separate channels of electrical, voice, data, video or fiber optic cabling. InfoStream's unique and patented design makes installations quicker and easier. The raceway and fittings are manufactured from a UL 94V-0 rated material.

- All fittings have been designed to maintain the required 1" minimum bend radius per ANSI/TIA-568-C and 569-A standards
- U.L. Listed to 600 Volts – Meets UL5A and CSA 22.2 No. 62-93 standards
- Patented hinged cover speeds installation time by allowing installer to partially mount cover prior to laying cables
- Light weight also eases installation and reduces labor costs
- Offset elbow is the only solution currently on the market for wall offsets between 2-7"
- Mates directly with HellermannTyton's TSR and TSRP - single channel raceway system
- System is designed to accept all NEMA standard faceplates and devices
- Offset box gives installer the option to offset electrical outlet above or below raceway
- Cable tie mount retains cables inside of channel if necessary and accepts standard HellermannTyton cable ties
- Entrance end fitting allows entrance into raceway from ceiling or through wall



**INFOSTREAM®****Multi-Channel Raceway Diagram**

## INFOSTREAM® Multi-Channel Raceway

### Power and Data Only



**Power Only Configuration**

Components: Raised Electrical Device Bracket (MCR-REB)  
Area: 2.50 sq. in.



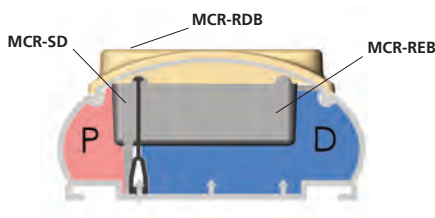
**Data Only Configuration**

Components: Raised Communications Device Bracket (MCR-RDB)  
Area: 3.08 sq. in.

### Power and Data Inline



**High Data Capacity Option  
With Side Divider**



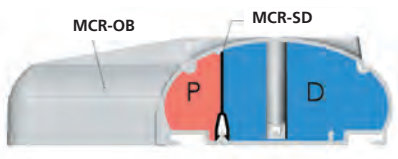
**High Capacity / Side Divider Configuration**

Components:

- Raceway Side Divider (MCR-SD)
- Raised Device Bracket (MCR-RDB)
- Raised Electrical Bracket (MCR-REB)

Data Area: 2.45 sq. in.  
Power Area: 0.80 sq. in.

### Offset Box with Data



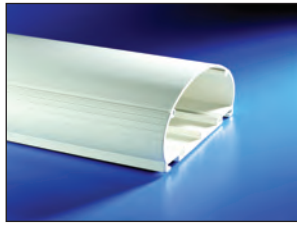
**Offset Box with Data Configuration**

Components:

- Offset Box (MCR-OB)
- Raceway Side Divider (MCR-SD)

Data Area: 4.26 sq. in.  
Power Area: 1.22 sq. in.

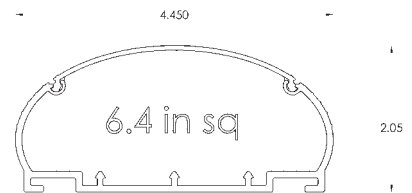
## InfoStream® Multi-Channel Raceway



Unique, streamlined design enhances the aesthetics of any installation.



Hinged cover speeds installation.



## Multi-Channel Raceway Base

Base is supplied with pre-punched mounting slots every 8". Raceway base also includes adhesive double-sided tape for aid in mounting. Raceway must still be properly fastened to the wall per included instructions.



### Product Selection

| Article No. | Part No.          | Type     | Description                    | Color        | Length | Carton Qty. |
|-------------|-------------------|----------|--------------------------------|--------------|--------|-------------|
| 250-00006   | <b>MCRFW-BS8</b>  | MCR-BS8  | Raceway Base with Side Divider | Office White | 8 ft.  | 48 ft.      |
| 250-00035   | <b>MCRI-BS8</b>   | MCR-BS8  | Raceway Base with Side Divider | Ivory        | 8 ft.  | 48 ft.      |
| 250-00005   | <b>MCRFW-BS10</b> | MCR-BS10 | Raceway Base with Side Divider | Office White | 10 ft. | 60 ft.      |
| 250-00034   | <b>MCRI-BS10</b>  | MCR-BS10 | Raceway Base with Side Divider | Ivory        | 10 ft. | 60 ft.      |

Use **Part No.** for ordering and **Type** for specification purposes.

## Multi-Channel Raceway Cover



### Product Selection

| Article No. | Part No.         | Type    | Description   | Color        | Length | Carton Qty. |
|-------------|------------------|---------|---------------|--------------|--------|-------------|
| 250-00009   | <b>MCRFW-C8</b>  | MCR-C8  | Raceway Cover | Office White | 8 ft.  | 48 ft.      |
| 250-00037   | <b>MCRI-C8</b>   | MCR-C8  | Raceway Cover | Ivory        | 8 ft.  | 48 ft.      |
| 250-00007   | <b>MCRFW-C10</b> | MCR-C10 | Raceway Cover | Office White | 10 ft. | 60 ft.      |
| 250-00036   | <b>MCRI-C10</b>  | MCR-C10 | Raceway Cover | Ivory        | 10 ft. | 60 ft.      |

Use **Part No.** for ordering and **Type** for specification purposes.

## Multi-Channel Raceway Divider

Snaps onto either side of raceway base rails for proper power and data separation per UL/CSA. Contact HellermannTyton for information on center divider.



### Product Selection

| Article No. | Part No.         | Type     | Description          | Color | Length | Carton Qty. |
|-------------|------------------|----------|----------------------|-------|--------|-------------|
| 250-00056   | <b>MCRW-SD8</b>  | MCR-SD8  | Raceway Side Divider | White | 8 ft.  | 96 ft.      |
| 250-00055   | <b>MCRW-SD10</b> | MCR-SD10 | Raceway Side Divider | White | 10 ft. | 120 ft.     |

Use **Part No.** for ordering and **Type** for specification purposes.

## InfoStream® Multi-Channel Raceway

### Flat Elbow

Joins raceway at 90 degree flat angle.

#### Product Selection

| Article No. | Part No.        | Type   | Description | Color        | Pkg. Qty. |
|-------------|-----------------|--------|-------------|--------------|-----------|
| 250-00019   | <b>MCRFW-FE</b> | MCR-FE | Flat Elbow  | Office White | 1         |
| 250-00046   | <b>MCRI-FE</b>  | MCR-FE | Flat Elbow  | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



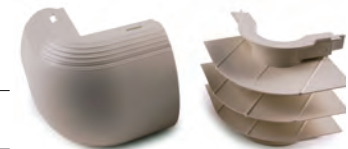
### External Elbow

Joins raceway at 90 degree outside corner.

#### Product Selection

| Article No. | Part No.        | Type   | Description    | Color        | Pkg. Qty. |
|-------------|-----------------|--------|----------------|--------------|-----------|
| 250-00016   | <b>MCRFW-EE</b> | MCR-EE | External Elbow | Office White | 1         |
| 250-00044   | <b>MCRI-EE</b>  | MCR-EE | External Elbow | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



### Internal Elbow

Joins raceway at 90 degree inside corner.

#### Product Selection

| Article No. | Part No.        | Type   | Description    | Color        | Pkg. Qty. |
|-------------|-----------------|--------|----------------|--------------|-----------|
| 250-00020   | <b>MCRFW-IE</b> | MCR-IE | Internal Elbow | Office White | 1         |
| 250-00047   | <b>MCRI-IE</b>  | MCR-IE | Internal Elbow | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## InfoStream® Multi-Channel Raceway

### End Cap

Completes raceway or provides transition for 1/2", 3/4" and 1" conduit.

| Product Selection |                 |        |             |              |           |
|-------------------|-----------------|--------|-------------|--------------|-----------|
| Article No.       | Part No.        | Type   | Description | Color        | Pkg. Qty. |
| 250-00014         | <b>MCRFW-EC</b> | MCR-EC | End Cap     | Office White | 1         |
| 250-00042         | <b>MCRI-EC</b>  | MCR-EC | End Cap     | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



### Base Splice

Joins two sections of raceway base.

| Product Selection |                 |        |             |              |           |
|-------------------|-----------------|--------|-------------|--------------|-----------|
| Article No.       | Part No.        | Type   | Description | Color        | Pkg. Qty. |
| 250-00004         | <b>MCRFW-BS</b> | MCR-BS | Base Splice | Office White | 10        |
| 250-00033         | <b>MCRI-BS</b>  | MCR-BS | Base Splice | Ivory        | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.



### Cover Splice

Joins two sections of raceway cover.

| Product Selection |                 |        |              |              |           |
|-------------------|-----------------|--------|--------------|--------------|-----------|
| Article No.       | Part No.        | Type   | Description  | Color        | Pkg. Qty. |
| 250-00013         | <b>MCRFW-CS</b> | MCR-CS | Cover Splice | Office White | 10        |
| 250-00041         | <b>MCRI-CS</b>  | MCR-CS | Cover Splice | Ivory        | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.



### Power Transition Fitting

Knockouts are provided for TSRP1, TSRP2, and TSRP3 surface raceway.

| Product Selection |                  |         |                          |              |           |
|-------------------|------------------|---------|--------------------------|--------------|-----------|
| Article No.       | Part No.         | Type    | Description              | Color        | Pkg. Qty. |
| 250-00024         | <b>MCRFW-PTF</b> | MCR-PTF | Power Transition Fitting | Office White | 1         |
| 250-00050         | <b>MCRI-PTF</b>  | MCR-PTF | Power Transition Fitting | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## InfoStream® Multi-Channel Raceway

### Raised Device Bracket

Used to mount NEMA standard single gang device and faceplate. Raised bracket allows for additional wire fill space and additional device clearance. Use with side divider for 2-channel applications



#### Product Selection

| Article No. | Part No.         | Type    | Description           | Color        | Pkg. Qty. |
|-------------|------------------|---------|-----------------------|--------------|-----------|
| 250-00025   | <b>MCRFW-RDB</b> | MCR-RDB | Raised Device Bracket | Office White | 10        |
| 250-00051   | <b>MCRI-RDB</b>  | MCR-RDB | Raised Device Bracket | Ivory        | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.

### Raised Electrical Box

Used to mount NEMA standard single gang device and faceplate. Raised electrical box allows for additional low-voltage wire fill space. Use with side divider for 2-channel applications.



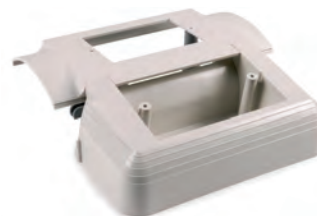
#### Product Selection

| Article No. | Part No.         | Type    | Description               | Color        | Pkg. Qty. |
|-------------|------------------|---------|---------------------------|--------------|-----------|
| 250-00026   | <b>MCRFW-REB</b> | MCR-REB | Raised Electrical Bracket | Office White | 5         |
| 250-00052   | <b>MCRI-REB</b>  | MCR-REB | Raised Electrical Bracket | Ivory        | 5         |

Use **Part No.** for ordering and **Type** for specification purposes.

### Offset Box

Option for communications devices in raceway and electrical outlets on side.



#### Product Selection

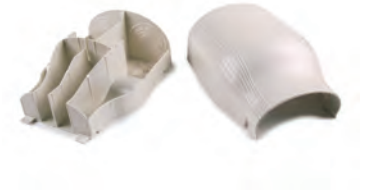
| Article No. | Part No.        | Type   | Description | Color        | Pkg. Qty. |
|-------------|-----------------|--------|-------------|--------------|-----------|
| 250-00021   | <b>MCRFW-OB</b> | MCR-OB | Offset Box  | Office White | 1         |
| 250-00048   | <b>MCRI-OB</b>  | MCR-OB | Offset Box  | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## InfoStream® Multi-Channel Raceway

### Entrance End Fitting

For use as a ceiling drop, conduit transition from end or base of raceway, or low voltage entrance from end or base of raceway. Includes dual 0.75", 1", 1.25", 1.75", 2", and 2.5" knockouts.



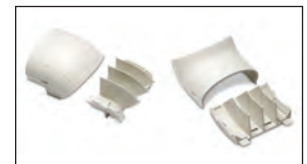
#### Product Selection

| Article No. | Part No.         | Type    | Description          | Color        | Pkg. Qty. |
|-------------|------------------|---------|----------------------|--------------|-----------|
| 250-00017   | <b>MCRFW-ENT</b> | MCR-ENT | Entrance End Fitting | Office White | 1         |
| 250-00045   | <b>MCRI-ENT</b>  | MCR-ENT | Entrance End Fitting | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

### Offset Elbow

For small wall offsets between 2"- 7". Used in conjunction with piece of raceway. .



#### Product Selection

| Article No. | Part No.        | Type   | Description  | Color        | Pkg. Qty. |
|-------------|-----------------|--------|--------------|--------------|-----------|
| 250-00022   | <b>MCRFW-OE</b> | MCR-OE | Offset Elbow | Office White | 1         |
| 250-00049   | <b>MCRI-OE</b>  | MCR-OE | Offset Elbow | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



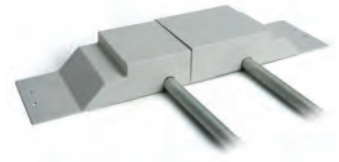
### Offset Bridge

For bridging over conduit already installed on wall. Must be used with MCRFW-OE corner pieces.

#### Product Selection

| Article No. | Part No.         | Type    | Description   | Color        | Pkg. Qty. |
|-------------|------------------|---------|---------------|--------------|-----------|
| 250-00188   | <b>MCRFW-OEB</b> | MCR-OEB | Offset Bridge | Office White | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



## InfoStream® Multi-Channel Raceway

### Tee Fitting

Joins three sections of raceway and includes divider.



#### Product Selection

| Article No. | Part No.        | Type   | Description | Color        | Pkg. Qty. |
|-------------|-----------------|--------|-------------|--------------|-----------|
| 250-00027   | <b>MCRFW-TE</b> | MCR-TE | Tee Fitting | Office White | 1         |
| 250-00053   | <b>MCRI-TE</b>  | MCR-TE | Tee Fitting | Ivory        | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

### Tee Fitting Divider - Left Side

Divides power and communications cables on the opposite side.



#### Product Selection

| Article No. | Part No.       | Type    | Description                     | Pkg. Qty. |
|-------------|----------------|---------|---------------------------------|-----------|
| 250-00001   | <b>MCR-LTD</b> | MCR-LTD | Tee Fitting Divider - Left Side | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

### Tie Mount and Wire Retainer

Tie mount keeps wire and cable bundled. Accepts standard HellermannTyton cable ties T18-T50. Wire retainer keeps wire and cable in place. Recommend placement every 18" to 24".

#### Product Selection

| Article No. | Part No.       | Type   | Description   | Pkg. Qty. |
|-------------|----------------|--------|---------------|-----------|
| 250-00029   | <b>MCRG-TM</b> | MCR-TM | Tie Mount     | 100       |
| 250-00030   | <b>MCRG-WR</b> | MCR-WR | Wire Retainer | 10        |

Use **Part No.** for ordering and **Type** for specification purposes.

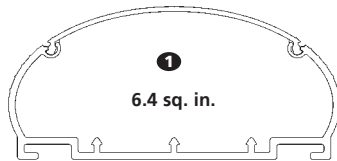


*Tie Mount*

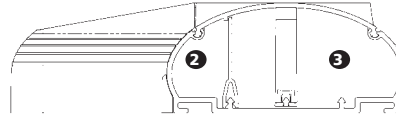


*Wire Retainer*

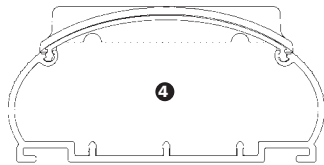
## InfoStream® Multi-Channel Raceway



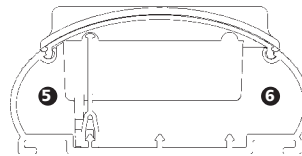
Base and Cover with No Devices



Offset Box with Data (OB)



Data Only using Raised Bracket (RDB)



Power and Data Inline using Raised Brackets (REB, RDB)

## Wire Fill Chart

| LOW VOLTAGE                                       |                  | Raceway<br>Area of Raceway | Channel 1<br>6.40in <sup>2</sup> | Channel 2<br>1.220in <sup>2</sup> | Channel 3<br>4.260in <sup>2</sup> | Channel 4<br>5.880in <sup>2</sup> | Channel 5<br>0.800in <sup>2</sup> | Channel 6<br>2.450in <sup>2</sup> |      |     |      |     |    |    |
|---------------------------------------------------|------------------|----------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------|-----|------|-----|----|----|
| Wire Type                                         | Wire Size        | OD of Wire                 | Spec                             | Max                               | Spec                              | Max                               | Spec                              | Max                               | Spec | Max | Spec | Max |    |    |
| Twisted Pair<br>24 AWG<br>Unshielded              | 2 Pr.            | 0.140                      | 166                              | 249                               | 31                                | 47                                | 110                               | 166                               | 152  | 229 | 20   | 31  | 63 | 95 |
|                                                   | 3 Pr.            | 0.150                      | 144                              | 217                               | 27                                | 41                                | 96                                | 144                               | 133  | 199 | 18   | 27  | 55 | 83 |
|                                                   | 4 Pr. Cat 5e     | 0.217                      | 69                               | 103                               | 13                                | 19                                | 46                                | 69                                | 63   | 95  | 8    | 12  | 26 | 39 |
|                                                   | 4 Pr. Cat 6      | 0.240                      | 56                               | 84                                | 10                                | 16                                | 37                                | 56                                | 51   | 77  | 7    | 10  | 21 | 32 |
|                                                   | 4 Pr. Cat 6A     | 0.354                      | 26                               | 39                                | 4                                 | 7                                 | 17                                | 25                                | 23   | 35  | 3    | 4   | 9  | 14 |
|                                                   | 25 Pr.           | 0.410                      | 19                               | 29                                | 3                                 | 5                                 | 12                                | 19                                | 17   | 26  | 2    | 3   | 7  | 11 |
| Coax                                              | RG58/U           | 0.193                      | 87                               | 131                               | 16                                | 25                                | 58                                | 87                                | 80   | 120 | 10   | 16  | 33 | 50 |
|                                                   | RG59/U or RG62/U | 0.242                      | 55                               | 83                                | 10                                | 15                                | 37                                | 55                                | 51   | 76  | 6    | 10  | 21 | 31 |
|                                                   | RG6/U            | 0.270                      | 44                               | 67                                | 8                                 | 12                                | 29                                | 44                                | 41   | 61  | 5    | 8   | 17 | 25 |
| Fiber Optic<br>FA Jacket<br>OFNP                  | 2 Strand         | 0.175                      | 106                              | 159                               | 20                                | 30                                | 70                                | 106                               | 97   | 146 | 13   | 19  | 40 | 61 |
|                                                   | 4 Strand         | 0.185                      | 95                               | 142                               | 18                                | 27                                | 63                                | 95                                | 87   | 131 | 11   | 17  | 36 | 54 |
|                                                   | 6 Strand         | 0.210                      | 73                               | 110                               | 14                                | 21                                | 49                                | 73                                | 67   | 101 | 9    | 13  | 28 | 42 |
| Fiber Optic<br>62.5/125/900<br>PVC Jacket<br>OFNR | 2 Strand         | 0.175                      | 106                              | 159                               | 20                                | 30                                | 70                                | 106                               | 97   | 146 | 13   | 19  | 40 | 61 |
|                                                   | 4 Strand         | 0.185                      | 95                               | 142                               | 18                                | 27                                | 63                                | 95                                | 87   | 131 | 11   | 17  | 36 | 54 |
|                                                   | 6 Strand         | 0.210                      | 73                               | 110                               | 14                                | 21                                | 49                                | 73                                | 67   | 101 | 9    | 13  | 28 | 42 |
|                                                   | 8 Strand         | 0.230                      | 61                               | 92                                | 11                                | 17                                | 41                                | 61                                | 56   | 84  | 7    | 11  | 23 | 35 |
|                                                   | 10 Strand        | 0.250                      | 52                               | 78                                | 9                                 | 14                                | 34                                | 52                                | 47   | 71  | 6    | 9   | 19 | 29 |
| Electrical Wire                                   | 14 AWG THHN      | 0.105                      |                                  | 30                                |                                   | 21                                |                                   | -                                 |      | 27  |      | 14  |    | -  |
|                                                   | 12 AWG THHN      | 0.122                      |                                  | 25                                |                                   | 15                                |                                   | -                                 |      | 22  |      | 11  |    | -  |
|                                                   | 10 AWG THHN      | 0.153                      |                                  | 19                                |                                   | 9                                 |                                   | -                                 |      | 17  |      | 8   |    | -  |

Formula used to calculate communications wire fill capacity - Numbers of wires = duct / {1/4 x 3.14 x (wire o.d.)<sup>2</sup>} x 0.4 or 0.6.

Per ANSI/TIA/EIA-569-A:-

SPEC = 40% fill which is recommended for planning perimeter pathways

MAX (for data) = 60% fill which is allowed to accommodate unplanned additions after initial installation

MAX (for power) = Maximum number determined by UL temperature testing

Note: It is recommended to place electrical cables loosely in raceway.

## Routing and Raceway Products

### Wiring Duct

HellermannTyton manufactures wiring duct from high impact and rigid PVC for routing and protecting wire and cable. The slotted duct features break-away fingers which provide additional access for wire and cable. Each section of slotted duct is provided with two score lines. The first one is at the base of the finger which allows the finger to be bent and broken away when a greater opening is required. The second score line is lower which allows a section of the sidewall to be easily removed by simply cutting the sidewall down to the lower score line and snapping out the desired section. These two score lines provide smooth edges to ensure user comfort and cable safety. For straight wire runs where break-outs are not required, HellermannTyton also provides solid wall duct. The covers are flush with the side of the duct and also feature a non-slip plastic lining to ensure that the covers remain in place. **Covers must be ordered separately.**



#### Product Selection

| Article No.         | Part No.         | Type      | Height (H) | Width (W2) | Length | Color* | Pkg. Qty. |
|---------------------|------------------|-----------|------------|------------|--------|--------|-----------|
| <b>Slotted Duct</b> |                  |           |            |            |        |        |           |
| 181-11009           | <b>181-11009</b> | SL1x1     | 1.05"      | 1.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-14001           | <b>181-14001</b> | SL1X4     | 4.06"      | 1.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-15400           | <b>181-15400</b> | SL1.5X4   | 4.06"      | 1.50"      | 6 ft.  | Black  | 120 ft.   |
| 181-15505           | <b>181-15505</b> | SL1.5X1.5 | 1.56"      | 1.52"      | 6 ft.  | Black  | 120 ft.   |
| 181-15203           | <b>181-15203</b> | SL1.5X2   | 2.06"      | 1.53"      | 6 ft.  | Black  | 120 ft.   |
| 181-22020           | <b>181-22020</b> | SL2x2     | 2.00"      | 2.03"      | 6 ft.  | Black  | 120 ft.   |
| 181-23003           | <b>181-23003</b> | SL2X3     | 3.00"      | 2.02"      | 6 ft.  | Black  | 120 ft.   |
| 181-24003           | <b>181-24003</b> | SL2X4     | 4.06"      | 2.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-32004           | <b>181-32004</b> | SL3X2     | 2.00"      | 3.03"      | 6 ft.  | Black  | 120 ft.   |
| 181-33009           | <b>181-33009</b> | SL3X3     | 3.00"      | 3.02"      | 6 ft.  | Black  | 120 ft.   |
| 181-34002           | <b>181-34002</b> | SL3X4     | 4.00"      | 3.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-35002           | <b>181-35002</b> | SL3X5     | 5.00"      | 3.00"      | 6 ft.  | Black  | 60 ft.    |
| 181-44020           | <b>181-44020</b> | SL4X4     | 4.00"      | 4.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-45002           | <b>181-45002</b> | SL4X5     | 5.06"      | 4.00"      | 6 ft.  | Black  | 60 ft.    |
| <b>Solid Duct</b>   |                  |           |            |            |        |        |           |
| 181-11000           | <b>181-11000</b> | SD1X1     | 1.05"      | 1.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-15500           | <b>181-15500</b> | SD1.5X1.5 | 1.56"      | 1.52"      | 6 ft.  | Black  | 120 ft.   |
| 181-22005           | <b>181-22005</b> | SD2X2     | 2.06"      | 2.03"      | 6 ft.  | Black  | 120 ft.   |
| 181-33000           | <b>181-33000</b> | SD3X3     | 3.06"      | 3.02"      | 6 ft.  | Black  | 120 ft.   |
| 181-44006           | <b>181-44006</b> | SD4X4     | 4.06"      | 4.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-00137           | <b>181-00137</b> | SD4X5     | 5.06"      | 4.00"      | 6 ft.  | Black  | 60 ft.    |
| <b>Covers</b>       |                  |           |            |            |        |        |           |
| 181-91000           | <b>181-91000</b> | TC1       | -          | 1.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-91503           | <b>181-91503</b> | TC1.5     | -          | 1.50"      | 6 ft.  | Black  | 120 ft.   |
| 181-92001           | <b>181-92001</b> | TC2       | -          | 2.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-93003           | <b>181-93003</b> | TC3       | -          | 3.00"      | 6 ft.  | Black  | 120 ft.   |
| 181-94003           | <b>181-94003</b> | TC4       | -          | 4.00"      | 6 ft.  | Black  | 120 ft.   |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

\* Also available in standard white and gray. Call for availability and additional sizes.

# RACKS AND CABLE MANAGEMENT

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

E Series Horizontal Wire Managers .....140

Horizontal Wire Management .....141-142

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Racks .....146-147

Raised Floor Enclosure .....148

Shelves .....149

Panels .....150-152



## E Series Horizontal Wire Managers

HellermannTyton's enhanced horizontal wire managers protect cable and maintain its integrity on a standard 19" rack. The high-quality, injection molded wire managers possess a one-inch minimum radius, which guards against extensive bending of the cables and increases transmission reliability. Using the enhanced horizontal wire managers makes installing and rework faster and easier. Snap-on, injection-molded covers hinge down for easy access to patch cords in front of the rack during moves, adds and changes (MAC's). HellermannTyton's enhanced horizontal wire manager's aesthetic design includes a clean look with textured covers, preventing fingerprints.



- The smooth edges and the wide spacing allow for easy routing of cable bundles.
- Mounting holes and slots on the sides of the management system permit easier alignment on the rack and faster installation.
- The sloped design in the rear maintains room for cable bundles and ensures easy access to patch panels.
- The horizontal rear cable manager's depth is increased, enabling cables to be routed more easily from vertical managers.
- Wire retention tabs are designed into the enhanced horizontal wire managers to help keep cables inside the manager.
- The wire manager's material is UL94V-0 rated for flammability.
- New latch makes for easier opening.

| Product Selection      |               |      |                                      |                  |       |                 |       |            |           |                 |
|------------------------|---------------|------|--------------------------------------|------------------|-------|-----------------|-------|------------|-----------|-----------------|
| Article No.            | Part No.      | Type | Description                          | Front Dimensions |       | Rear Dimensions |       | Rack Units | Pkg. Qty. | Shipping Weight |
|                        |               |      |                                      | Width            | Depth | Width           | Depth |            |           |                 |
| One Rack Unit Managers |               |      |                                      |                  |       |                 |       |            |           |                 |
| 854-09268              | <b>EHWMN1</b> | EHWM | Single-Sided Horizontal Wire Manager | 1.75"            | 3"    | -               | -     | 1U         | 1         | 1.0 lbs.        |
| 854-09269              | <b>EHWMN2</b> | EHWM | Dual-Sided Horizontal Wire Manager   | 1.75"            | 3"    | 1.75"           | 6"    | 1U         | 1         | 2.0 lbs.        |
| Two Rack Unit Managers |               |      |                                      |                  |       |                 |       |            |           |                 |
| 854-09270              | <b>EHWM1</b>  | EHWM | Single-Sided Horizontal Wire Manager | 3.5"             | 3"    | -               | -     | 2U         | 1         | 1.75 lbs.       |
| 854-09271              | <b>EHWM2</b>  | EHWM | Dual-Sided Horizontal Wire Manager   | 3.5"             | 3"    | 3.5"            | 6"    | 2U         | 1         | 2.16 lbs.       |

Use **Part No.** for ordering and **Type** for specification purposes.



## Wire Management Brackets

HellermannTyton provides the most adaptable and systematic approach for cable management on relay racks. Offering a complete line of versatile products, these brackets and panels protect, route, and organize UTP, F/UTP, coax and fiber optic cables and make it easy to perform moves or changes. For a completely enclosed appearance, HellermannTyton offers the horizontal and vertical wire management brackets. This design provides organization while keeping cables hidden. The covers are easily removed and reattached providing quick and easy access to both the front and back of a rack. To prevent misplacement of covers, the brackets also are available with a hinged cover allowing easy open and close without entire cover removal. Ideal for high-density installations, the black wire management brackets feature smooth-edged slotted fingers allowing cable to be pulled through at any location. The slotted fingers are scored, enabling them to break off if larger openings are required. Numerous sizes are available in both horizontal and vertical configurations. All wire management brackets are packaged with 12-24 mounting screws.

Wire management brackets can be customized with corporate logos. Contact HellermannTyton for more information.

## Horizontal Wire Management Brackets

Designed to provide cable management horizontally on the front and back of a rack, the black WMB series include several variations and sizes. The single-sided bracket provides a channel for only the front or the back on a relay rack, and the dual-sided bracket provides a channel for both the front and back on a relay rack. Styles are offered for one, two, and three rack spaces. The two rack space wire manager has pass through holes in the frame for better management of cables and front to back cabling. All are equipped with extended length covers to keep excess cable hidden.

HellermannTyton's wire managers also feature an easily removable plastic film on the cover to eliminate scratches during shipment. This plastic film ensures a neat appearance and improves rack aesthetics when the wire managers are installed, an important consideration to installers and end-users.

All designs of wire management brackets can perform with the wire management bracket hinge. This hinge allows the cover to remain with the bracket. It easily snaps onto the cover and the channel. Once assembled, the hinge permits the cover to be opened down and act as a "shelf" for easy cable organization. The hinge is available separately or preassembled on the wire management bracket and cover.



*Wire Management Bracket Hinges*



*Plastic film to protect cover provided*

## Horizontal Wire Management

| Product Selection        |          |         |                                                        |                  |       |                 |       |            |           |                 |
|--------------------------|----------|---------|--------------------------------------------------------|------------------|-------|-----------------|-------|------------|-----------|-----------------|
| Article No.              | Part No. | Type    | Description                                            | Front Dimensions |       | Rear Dimensions |       | Rack Units | Pkg. Qty. | Shipping Weight |
|                          |          |         |                                                        | Width            | Depth | Width           | Depth |            |           |                 |
| One Rack Unit Managers   |          |         |                                                        |                  |       |                 |       |            |           |                 |
| 854-09253                | WMBN1    | WMBN1   | Single-Sided Horizontal Wire Manager                   | 1.5"             | 2"    | -               | -     | 1U         | 1         | 1.0 lbs.        |
| 854-09256                | WMBP1    | WMBP1   | Single-Sided Horizontal Wire Manager                   | 1.5"             | 3"    | -               | -     | 1U         | 1         | 2.0 lbs.        |
| 854-09254                | WMBN2    | WMBN2   | Dual-Sided Horizontal Wire Manager                     | 1.5"             | 2"    | 1.5"            | 4"    | 1U         | 1         | 1.75 lbs.       |
| 854-09258                | WMBP2    | WMBP2   | Dual-Sided Horizontal Wire Manager                     | 1.5"             | 3"    | 1.5"            | 4"    | 1U         | 1         | 2.16 lbs.       |
| Two Rack Unit Managers   |          |         |                                                        |                  |       |                 |       |            |           |                 |
| 854-09232                | WMB1     | WMB1    | Single-Sided Horizontal Wire Manager                   | 3"               | 3"    | -               | -     | 2U         | 1         | 1.75 lbs.       |
| 854-09233                | WMB1H    | WMB1H*  | Single-Sided Horizontal Wire Manager with Hinged Cover | 3"               | 3"    | -               | -     | 2U         | 1         | 1.75 lbs.       |
| 854-09236                | WMB2     | WMB2    | Dual-Sided Horizontal Wire Manager                     | 3"               | 3"    | 2"              | 4"    | 2U         | 1         | 2.75 lbs.       |
| 854-09240                | WMB2H    | WMB2H*  | Dual-Sided Horizontal Wire Manager with Hinged Cover   | 3"               | 3"    | 2"              | 4"    | 2U         | 1         | 2.75 lbs.       |
| 854-09237                | WMB2B    | WMB2B   | Dual-Sided Horizontal Wire Manager                     | 3"               | 3"    | 3"              | 5"    | 2U         | 1         | 3.0 lbs.        |
| 854-09238                | WMB2BH   | WMB2BH* | Dual-Sided Horizontal Wire Manager with Hinged Cover   | 3"               | 3"    | 3"              | 5"    | 2U         | 1         | 3.0 lbs.        |
| Three Rack Unit Managers |          |         |                                                        |                  |       |                 |       |            |           |                 |
| 854-09243                | WMB31    | WMB31   | Single-Sided Horizontal Wire Manager                   | 4"               | 5"    | -               | -     | 3U         | 1         | 2.0 lbs.        |
| 854-09244                | WMB31H   | WMB31H* | Single-Sided Horizontal Wire Manager with Hinged Cover | 4"               | 5"    | -               | -     | 3U         | 1         | 2.0 lbs.        |
| 854-09245                | WMB32    | WMB32   | Dual-Sided Horizontal Wire Manager                     | 4"               | 5"    | 4"              | 5"    | 3U         | 1         | 4.0 lbs.        |
| 854-09246                | WMB32H   | WMB32H* | Dual-Sided Horizontal Wire Manager with Hinged Cover   | 4"               | 5"    | 4"              | 5"    | 3U         | 1         | 4.0 lbs.        |

Use **Part No.** for ordering and **Type** for specification purposes. Wire managers with hinged covers ship with two hinges. \*Not pictured. Replacement/extra covers and hinges are listed after the vertical wire management brackets.



WMBN1

WMBP1

WMBN2

WMBP2

WMB1

WMB2

WMB2B

WMB31

WMB32

## Vertical Wire Management

The vertical wire managers also are available in single and dual-sided styles. They can be mounted on the side of the relay rack as well as between two adjacent racks. Equipped with feed-through holes to move cable from back to front and vice versa, the black vertical wire management brackets are offered in 35" lengths and 83" lengths. The VWMC4X4X5BK7 and VWMS4X4X5BK7 have 4" x 5" duct on the front, and 4" x 4" duct on the back.

In case of lost covers, HellermannTyton offers replacement covers for the vertical wire management brackets. HellermannTyton's wire managers also feature an easily removable plastic film on the cover to eliminate scratches during shipment. This plastic film ensures a neat appearance and improves rack aesthetics when the wire managers are installed, an important consideration to installers and end-users.



*Plastic film to protect cover provided*

## Wire Management Hinges

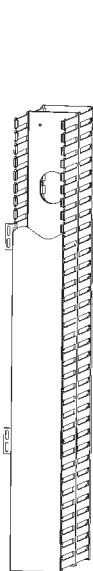
HellermannTyton also offers replacement/extra hinges for the wire management brackets. All designs of wire management brackets perform with the wire management bracket hinge. This hinge allows the cover to remain with the manager. It easily snaps onto the cover and the channel. Once assembled, the hinge permits the cover to open like a door, protecting the wire and cable.



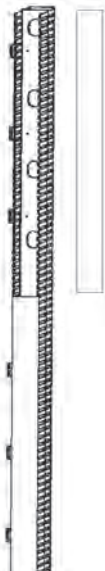
*Wire Management Bracket Hinges*

## Vertical Wire Management

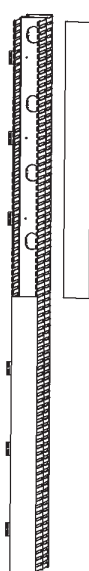
| Product Selection                                                                                 |               |            |                                                          |                  |       |                 |       |        |           |                 |
|---------------------------------------------------------------------------------------------------|---------------|------------|----------------------------------------------------------|------------------|-------|-----------------|-------|--------|-----------|-----------------|
| Article No.                                                                                       | Part No.      | Type       | Description                                              | Front Dimensions |       | Rear Dimensions |       | Height | Pkg. Qty. | Shipping Weight |
|                                                                                                   |               |            |                                                          | Width            | Depth | Width           | Depth |        |           |                 |
| Side Mount - Dual-Sided, Front and Back Management                                                |               |            |                                                          |                  |       |                 |       |        |           |                 |
| 854-09216                                                                                         | VWMDS4X5BK    | VWMDS4X5   | Dual-Sided, Side Mount Wire Manager                      | 4"               | 5"    | 4"              | 5"    | 35"    | 1         | 7.0 lbs.        |
| 854-09220                                                                                         | VWMDS4X5BKH*  | VWMDS4X5H  | Dual-Sided, Side Mount Wire Manager with Hinged Covers   | 4"               | 5"    | 4"              | 5"    | 35"    | 1         | 7.0 lbs.        |
| 854-09217                                                                                         | VWMDS4X5BK7   | VWMDS4X57  | Dual-Sided, Side Mount Wire Manager                      | 4"               | 5"    | 4"              | 5"    | 83"    | 1         | 16.0 lbs.       |
| 854-09218                                                                                         | VWMDS4X5BK7H* | VWMDS4X57H | Dual-Sided, Side Mount Wire Manager with Hinged Covers   | 4"               | 5"    | 4"              | 5"    | 83"    | 1         | 16.0 lbs.       |
| 854-09224                                                                                         | VWMS4X4X5BK7  | VWMS4X4X57 | Dual-Sided, Side Mount Wire Manager                      | 4"               | 5"    | 4"              | 4"    | 83"    | 1         | 16.0 lbs.       |
| Side Mount - Single-Sided, Front Only Management                                                  |               |            |                                                          |                  |       |                 |       |        |           |                 |
| 854-09227                                                                                         | VWMSS4X5BK    | VWMSS4X5   | Single-Sided, Side Mount Wire Manager                    | 4"               | 5"    | -               | -     | 35"    | 1         | 3.5 lbs.        |
| 854-09230                                                                                         | VWMSS4X5BKH*  | VWMDS4X5H  | Single-Sided, Side Mount Wire Manager with Hinged Covers | 4"               | 5"    | -               | -     | 35"    | 1         | 3.5 lbs.        |
| 854-09228                                                                                         | VWMSS4X5BK7   | VWMDS4X57  | Single-Sided, Side Mount Wire Manager with Hinged Covers | 4"               | 5"    | -               | -     | 83"    | 1         | 9.0 lbs.        |
| 854-09229                                                                                         | VWMSS4X5BK7H* | VWMSS4X57H | Single-Sided, Side Mount Wire Manager with Hinged Covers | 4"               | 5"    | -               | -     | 83"    | 1         | 9.0 lbs.        |
| Use <b>Part No.</b> for ordering and <b>Type</b> for specification purposes. *No drawing pictured |               |            |                                                          |                  |       |                 |       |        |           |                 |



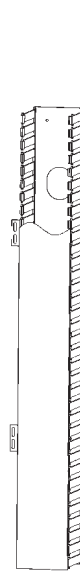
VWMD54X5BK



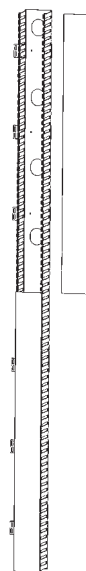
VWMD54X5BK7



VWMS4X4X5BK7



VWMS54X5BK

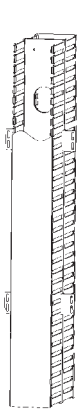


VWMS54X5BK7

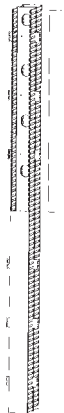
## Vertical Wire Management

| Product Selection                                    |              |            |                                         |                  |       |                 |       |        |           |                 |
|------------------------------------------------------|--------------|------------|-----------------------------------------|------------------|-------|-----------------|-------|--------|-----------|-----------------|
| Article No.                                          | Part No.     | Type       | Description                             | Front Dimensions |       | Rear Dimensions |       | Height | Pkg. Qty. | Shipping Weight |
|                                                      |              |            |                                         | Width            | Depth | Width           | Depth |        |           |                 |
| Center Mount - Dual-Sided, Front and Back Management |              |            |                                         |                  |       |                 |       |        |           |                 |
| 854-09212                                            | VWMDC4X5BK   | VWMDC4X5   | Dual-Sided, Center Mount Wire Manager   | 4"               | 5"    | 4"              | 5"    | 35"    | 1         | 7.0 lbs.        |
| 854-09213                                            | VWMDC4X5BK7  | VWMDC4X57  | Dual-Sided, Center Mount Wire Manager   | 4"               | 5"    | 4"              | 5"    | 83"    | 1         | 16.0 lbs.       |
| 854-09211                                            | VWMC4X4X5BK7 | VWMC4X4X57 | Dual-Sided, Center Mount Wire Manager   | 4"               | 5"    | 4"              | 4"    | 83"    | 1         | 16.0 lbs.       |
| Center Mount - Single-Sided, Front Only Management   |              |            |                                         |                  |       |                 |       |        |           |                 |
| 854-09225                                            | VWMSC4X5BK   | VWMSC4X5   | Single-Sided, Center Mount Wire Manager | 4"               | 5"    | -               | -     | 35"    | 1         | 3.5 lbs.        |
| 854-09226                                            | VWMSC4X5BK7  | VWMSC4X57  | Single-Sided, Center Mount Wire Manager | 4"               | 5"    | -               | -     | 83"    | 1         | 9.0 lbs.        |

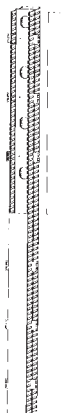
Use **Part No.** for ordering and **Type** for specification purposes.



VWMDC4X5BK



VWMDC4X5BK7



VWMC4X4X5BK7



VWMSC4X5BK



VWMSC4X5BK7

## Wire Management Replacement Covers

| Product Selection         |                |         |                                                |           |             |
|---------------------------|----------------|---------|------------------------------------------------|-----------|-------------|
| Article No.               | Part No.       | Type    | Description                                    | Pkg. Qty. | Carton Qty. |
| Horizontal Manager Covers |                |         |                                                |           |             |
| 854-09247                 | <b>WMBC15B</b> | WMBC15B | Replacement Rear Cover for WMBN2 and WMBP2     | 1         | 10          |
| 854-09248                 | <b>WMBC15F</b> | WMBC15F | Replacement Front Cover for WMBN1 and WMBN2    | 1         | 10          |
| 854-09249                 | <b>WMBC2B</b>  | WMBC2B  | Replacement Rear Cover for WMB2                | 1         | 10          |
| 854-09250                 | <b>WMBC2F</b>  | WMBC2F  | Replacement Front Cover for WMB1, WMB2 & WMB2B | 1         | 10          |
| 854-09251                 | <b>WMBC3B</b>  | WMBC3B  | Replacement Rear Cover for WMB2B               | 1         | 10          |
| 854-09252                 | <b>WMBC4B</b>  | WMBC4B  | Replacement Rear Cover for WMB32               | 1         | 10          |
| Vertical Manager Covers   |                |         |                                                |           |             |
| 854-09209                 | <b>VWMC18</b>  | VWMC18  | Replacement Cover for 35" Managers             | 1         | -           |
| 854-09210                 | <b>VWMC42</b>  | VWMC42  | Replacement Cover for 83" Managers             | 1         | -           |
| Hinges                    |                |         |                                                |           |             |
| 854-09272                 | <b>WMBH</b>    | WMBH    | Wire Management Hinges                         | 25        | -           |

Use **Part No.** for ordering and **Type** for specification purposes.



## Relay Racks

HellermannTyton's modular relay racks are ideal for mounting patch panels, shelves, electronic and test equipment, data and telecommunications equipment and other rack mount products in telecommunications and equipment rooms. The free-standing racks are manufactured from heavy-duty, all-aluminum extrusions and are designed to bolt to the floor for extra stability. Assembly is easily accomplished using a standard socket or adjustable wrench and the supplied bolts.

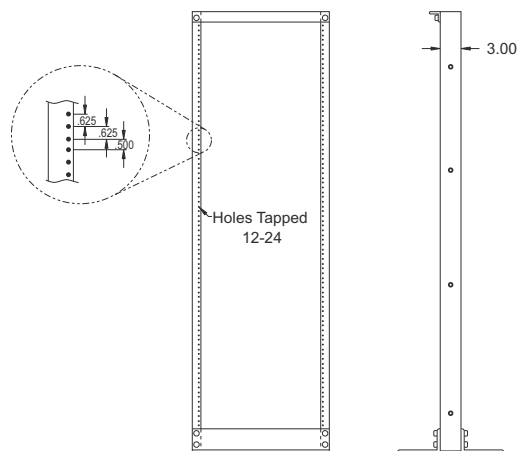
- Standard 19" EIA rack mount widths
- Equipped with 12-24 tapped holes on front and rear flanges
- EIA universal hole spacing for a variety of mounting options
- Available in aluminum mill and black powder coat finish
- Available in 47" and 84" heights
- Pre-threaded holes in upright channels allow for easy assembly of top angles and bases
- Only 12 bolts required for assembly
- Approved per UL standard 1459 for telephone equipment
- Approved per UL standard 1863 for communications circuit accessories



### Product Selection

| Article No. | Part No.     | Type | Color       | Height | Width | Rack Units | Pkg. Qty. | Shipping Weight |
|-------------|--------------|------|-------------|--------|-------|------------|-----------|-----------------|
| 854-44290   | <b>T4RR</b>  | T4RR | Mill Finish | 47.25" | 19"   | 24U        | 1         | 28 lbs.         |
| 854-44291   | <b>T4RRB</b> | T4RR | Black       | 47.25" | 19"   | 24U        | 1         | 28 lbs.         |
| 854-44295   | <b>T7RR</b>  | T7RR | Mill Finish | 84"    | 19"   | 45U        | 1         | 31 lbs.         |
| 854-44297   | <b>T7RRB</b> | T7RR | Black       | 84"    | 19"   | 45U        | 1         | 31 lbs.         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Wall Mount Swing-Out Rack

This wall mount rack swings equipment out for ease of wiring. It is equipped with quick-release hinges allowing the rack to be opened from either the right or the left. The rack features standard 19" EIA rack mount widths, equipped with 12-24 tapped holes on front and rear flanges.

| Product Selection |               |        |       |        |        |       |                 |           |                 |
|-------------------|---------------|--------|-------|--------|--------|-------|-----------------|-----------|-----------------|
| Article No.       | Part No.      | Type   | Color | Height | Width  | Depth | Height in Units | Pkg. Qty. | Shipping Weight |
| 854-44288         | <b>T24PPR</b> | T24PPR | Black | 24"    | 20.75" | 18"   | 12U             | 1         | 35 lbs.         |
| 854-44450         | <b>T38PPR</b> | T38PPR | Black | 38"    | 20.75" | 18"   | 20U             | 1         | 38 lbs.         |
| 854-44451         | <b>T47PPR</b> | T47PPR | Black | 47"    | 20.75" | 18"   | 25U             | 1         | 46 lbs.         |

Use **Part No.** for ordering and **Type** for specification purposes.



T24PPR



T38PPR



T47PPR

## Raised Floor Enclosure

HellermannTyton's Raised Floor Enclosure serves as a distribution point for zone cabling for low voltage cabling under raised floors of 8" deep or more. This enclosure can be used with traditional patch panel applications as well as copper and fiber RapidNet solutions.

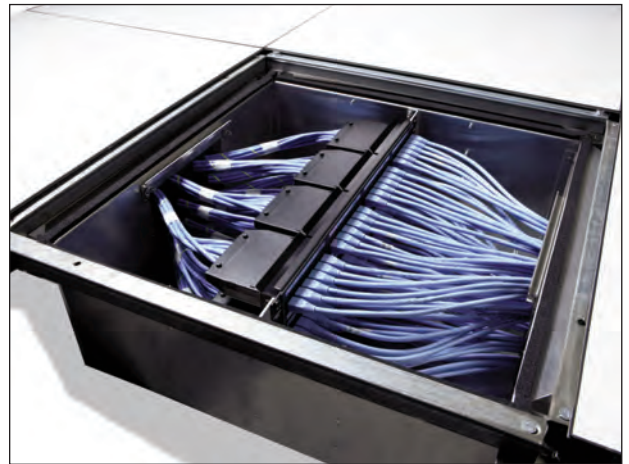
The enclosure is supported by the raised floor support brackets and uses the 2' x 2' floor tile as a cover. Designed to store and secure rack mount equipment, the enclosure is equipped with fire stop foam-sealing kits to fasten the two openings. Fire stop blocks accommodate single or bundled cable.

### Features

- Designed to fit into 2' x 2' raised floor grids, 8" depth
- Holds two 2RU (4RU) panels
- Inside mounting brackets for 19" EIA rack mounting
- Accepts #12-24 equipment mounting screws (included with all HellermannTyton patch panels)
- Fire stop foam kits/blocks to seal cable access ports
- Load capacity equals 85 pounds of equipment total
- Indoor use only, environmentally controlled areas
- Floor tile used for cover
- Seal provided on top flange to seal floor tile

### Includes

- Four raised floor support brackets
- Four leveler bolts
- Two grounding screws to outside of box



*Firestop block adds protection to network wiring*



### Product Selection

| Article No. | Part No. | Type | Color       | Depth | Width  | Pkg. Qty. | Shipping Weight |
|-------------|----------|------|-------------|-------|--------|-----------|-----------------|
| 854-19200   | HTZB2X2  | HTZB | Mill Finish | 7.94" | 20.88" | 1         | 30 lbs.         |

Use **Part No.** for ordering and **Type** for specification purposes.



## Shelves

HellermannTyton offers two styles of solid and vented equipment shelves for mounting telecommunications devices in a 19" rack or cabinet: center weight and cantilevered. The cantilevered shelf mounts to the front or rear of the rack's mounting rails. Both the center weight and the cantilevered shelf are manufactured from 16-gauge steel, and they come with 10-32 and 12-24 mounting hardware. The cantilevered shelf is rated for 50 pound capacity, and the center weight is rated for 75 pound capacity.

### Product Selection

| Article No. | Part No.          | Type       | Description                          | Color | Height | Width | Depth | Pkg. Qty. | Shipping Weight |
|-------------|-------------------|------------|--------------------------------------|-------|--------|-------|-------|-----------|-----------------|
| 854-44285   | <b>T19X195CW</b>  | T19X195CW  | Solid Center Weight Equipment Shelf  | Black | 3.44"  | 19"   | 19"   | 1         | 9.0 lbs.        |
| 854-44286   | <b>T19X195CWV</b> | T19X195CWV | Vented Center Weight Equipment Shelf | Black | 3.44"  | 19"   | 19"   | 1         | 8.3 lbs.        |
| 854-44283   | <b>T19X145</b>    | T19X145    | Solid Cantilevered Equipment Shelf   | Black | 3.44"  | 19"   | 14"   | 1         | 7.0 lbs.        |
| 854-44284   | <b>T19X145V</b>   | T19X145V   | Vented Cantilevered Equipment Shelf  | Black | 3.44"  | 19"   | 14"   | 1         | 6.1 lbs.        |

Use **Part No.** for ordering and **Type** for specification purposes.



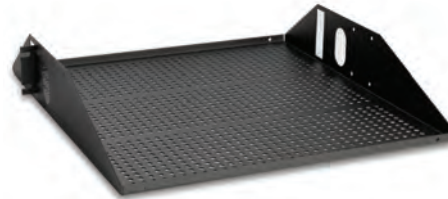
T19X145



T19X145V



T19X195CW



T19X195CWV

## Power Strips

Available in a six or ten outlet format, these 19" powerstrips can be mounted directly onto the relay rack. All powerstrips meet UL Standard 1363 and 1449. The ten outlet powerstrip is equipped with or without surge protection. The Powerstrip-10S has a surge suppression level of 330V with a clamping response time of less than five nanoseconds. All powerstrips are equipped with a 10 foot power cord.



| Product Selection |                       |                |                                                       |       |        |       |           |
|-------------------|-----------------------|----------------|-------------------------------------------------------|-------|--------|-------|-----------|
| Article No.       | Part No.              | Type           | Description                                           | Color | Height | Width | Pkg. Qty. |
| 854-44307         | <b>POWERSTRIP-6</b>   | POWERSTRIP-6   | Rack Mount Powerstrip - 6 Outlet                      | Black | 1.719" | 19"   | 1         |
| 854-44305         | <b>POWERSTRIP-10</b>  | POWERSTRIP-10  | Rack Mount Powerstrip - 10 Outlet                     | Black | 1.719" | 19"   | 1         |
| 854-44306         | <b>POWERSTRIP-10S</b> | POWERSTRIP-10S | Rack Mount Powerstrip - 10 Outlet w/ Surge Protection | Black | 1.719" | 19"   | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## Blank Rack Panels

HellermannTyton's blank rack panels provide filler for unused rack spaces. Available in three sizes, they aesthetically reserve rack space for future use.

| Product Selection |             |      |       |        |       |            |           |
|-------------------|-------------|------|-------|--------|-------|------------|-----------|
| Article No.       | Part No.    | Type | Color | Height | Width | Rack Units | Pkg. Qty. |
| 854-44299         | <b>TBP1</b> | TBP1 | Black | 1.75"  | 19"   | 1U         | 1         |
| 854-44300         | <b>TBP2</b> | TBP2 | Black | 3.5"   | 19"   | 2U         | 1         |
| 854-44301         | <b>TBP3</b> | TBP3 | Black | 5.25"  | 19"   | 3U         | 1         |

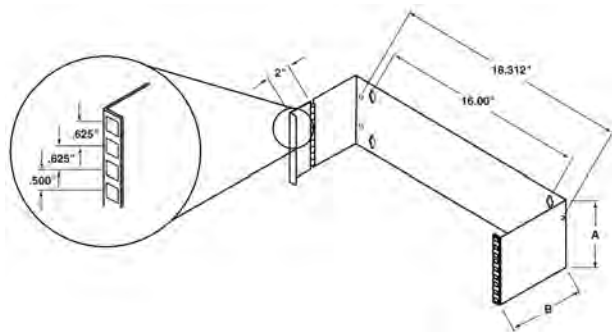
Use **Part No.** for ordering and **Type** for specification purposes.



## Wall Mount Patch Panel Bracket

HellermannTyton offers wall mount patch panel brackets for smaller cabling installations. The wall mount brackets aid in conserving valuable floor space within the telecommunications room.

Designed for 19" patch panels, these hinged brackets can be mounted directly onto a wall. They are available with right or left hand hinging, allowing complete access to the back of the patch panel. The bracket holes utilize universal EIA spacing. They are manufactured from heavy-duty, 16-gauge steel and finished with a black polyurethane baked paint. HellermannTyton's horizontal wire management brackets may also be mounted onto the wall mount brackets in order to organize excess cable.



### Product Selection

| Article No. | Part No.      | Type   | Color | Height | Depth | Rack Units | Pkg. Qty. |
|-------------|---------------|--------|-------|--------|-------|------------|-----------|
| 854-44287   | <b>T1PPB</b>  | T1PPB  | Black | 1.75"  | 6"    | 1U         | 1         |
| 854-44289   | <b>T3PPB</b>  | T3PPB  | Black | 3.5"   | 6"    | 2U         | 1         |
| 854-44406   | <b>T3PPB8</b> | T3PPB8 | Black | 3.5"   | 8"    | 2U         | 1         |
| 854-44292   | <b>T5PPB</b>  | T5PPB  | Black | 5.25"  | 6"    | 3U         | 1         |
| 854-44293   | <b>T7PPB</b>  | T7PPB  | Black | 7"     | 6"    | 4U         | 1         |
| 854-44421   | <b>T7PPB8</b> | T7PPB8 | Black | 7"     | 8"    | 4U         | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Management Panels

For a clean and simple solution to eliminating cable clutter on a relay rack, HellermannTyton offers a line of open cable management panels. Equipped with metal or plastic hangers, these 19" panels provide fast-and-easy organization.

| Product Selection |               |        |                                                      |             |                                   |                 |           |
|-------------------|---------------|--------|------------------------------------------------------|-------------|-----------------------------------|-----------------|-----------|
| Article No.       | Part No.      | Type   | Description                                          | Color       | Management Method                 | Height in Units | Pkg. Qty. |
| 854-09207         | <b>THCO1</b>  | THCO1  | Horizontal Cable Organizer with 4 feed-through holes | Black       | Five Metal Rings                  | 1U              | 1         |
| 854-09208         | <b>THCO2</b>  | THCO2  | Horizontal Cable Organizer with 8 feed-through holes | Black       | Five Metal Rings                  | 2U              | 1         |
| 854-05135         | <b>THCM1</b>  | THCM1  | Horizontal Cable Manager                             | Black       | Five Plastic Rings                | 1U              | 1         |
| 854-05138         | <b>TRCMA</b>  | TRCM   | AlphaSnap Rear Cable Manager                         | Mill Finish | Grip Ties with Mounts             | –               | 1         |
| 854-05139         | <b>TRCMU</b>  | TRCM   | Universal Rear Cable Manager                         | Mill Finish | Grip Ties with Mounts             | –               | 1         |
| 859-35057         | <b>TFCM</b>   | TFCM   | Front Cable Manager                                  | Black       | Grip Ties and Metal Slots         | –               | 1         |
| 859-34200         | <b>RNSE1U</b> | RNSE1U | Front Secure Enclosure                               | Black       | Removable Lid and Drop Down Front | –               | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.



THCO1



THCO2



THCM1



TRCMA/U



TFCM

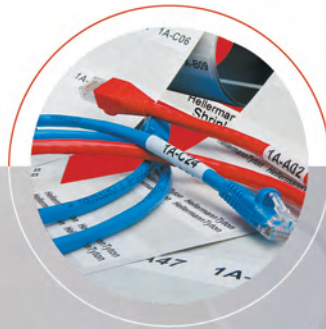


RNSE1U

# IDENTIFICATION PRODUCTS

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

|                                                 |         |
|-------------------------------------------------|---------|
| ANSI/TIA/EIA 606-A Standard Labeling . . . . .  | 154-155 |
| Software . . . . .                              | 156-159 |
| Thermal Transfer Printers . . . . .             | 160-166 |
| Spirit 2100 Portable Printing Systems . . . . . | 167-169 |
| Thermal Transfer Labels . . . . .               | 170-175 |
| Laser Labels . . . . .                          | 176-181 |
| Ink Jet Labels . . . . .                        | 182-186 |
| Miscellaneous Labels . . . . .                  | 187-206 |



## ANSI/TIA/EIA-606-A Requirements

The ANSI/TIA/EIA-606-A standard was developed to specify the requirements for labeling the telecommunications foundation in buildings. The 606-A (Administration) was reaffirmed in June 2007. Addendum 1 to 606-A was approved in October 2008. The addendum addresses the administration of equipment rooms, computer rooms and data centers. The next evolution of the standard will be 606-B.

### BASIC REQUIREMENTS

- Labeling cabinets and racks
- Labeling patch panels
- Labeling horizontal links (cable labels)
- Labeling backbone cables
- Labeling firestops
- Labeling grounding hardware
- Labeling pre-terminated solutions



ANSI/TIA/EIA-606-A  
Standard

*"All labels should be of a size, color and contrast to be readily visible by those maintaining the system. Labels should be resistant to environmental conditions likely to be encountered where they are installed, such as moisture or heat, and should be designated to have a useful life equal to or greater than that of the component labeled."*

To fulfill these requirements, HellermannTyton offers a complete line of identification products, including computer printable labels, TagPrint™ Pro labeling software, and an extensive line of printers, markers, signs, and label books. These identification products are designed to bring label production "in-house" to help speed production, reduce errors, and lower installation costs. HellermannTyton offers labels that work with thermal transfer, laser, ink jet, or dot matrix printers. Use the charts on the following pages to select label solutions that meet the ANSI/TIA/EIA-606-A standard.

## HellermannTyton Offers the Right Identifying Solution for Telecommunications Applications

### PATCH PANEL, TELEPHONE, RACKS AND FACEPLATE LABELS



### WIRE AND CABLE



### RACKS/RACEWAY/PATHWAY LABELS

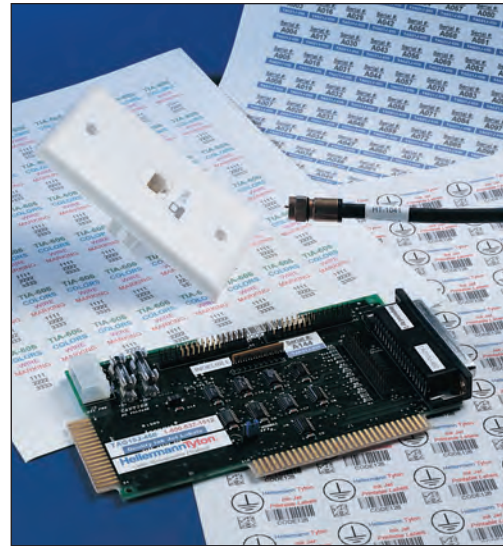


### AND MANY MORE APPLICATIONS:

- Fiber Splice Enclosures
- Grounding and Bonding Fire Stopping Locations Racks/Raceway/Pathway
- Labels For Marking Flat Surfaces, Pathways, Racks, Busbars, Telecommunication Spaces and Large Conduits



Self-Laminating Thermal Transfer Labels



Ink Jet Labels

## Thermal Transfer Labels

HellermannTyton offers thermal transfer labeling systems, including labels and printers, which print high-density text. The series of thermal transfer labels are designed specifically for thermal transfer printers and provide a clean, non-smear mark.

## Ink Jet Labels

A series of technologically advanced labels for use on standard ink jet printers are available from HellermannTyton. The labels are offered in a wide range of materials and sizes. When used with pigment-based inks, these ink jet labels offer superior, smear resistant marks that are chemical and solvent resistant. Colors also can be printed when used on a color ink jet printer. Ink jet labels are available in polyester or paper.

## Laser Tag Labels

Laser Tag labels are durable, laser printable labels for applications requiring clear, crisp legibility. They are ideal for marking copper and fiber optic cables, as well as components. The labels come on 8.5"x11" sheets with specially designed adhesives and materials, ensuring the labels will not curl, change color, or jam laser printers. Colors also can be printed when used on a color laser printer.

TagPrint Pro allows the user to specify a different color for every label on the sheet if required. Partially used sheets can be reprinted to reduce waste.



Laser Tag and Ink Jet Labels

## TagPrint™ Pro Professional Label Creation Software

TagPrint Pro label creation and printing software is powerful, multi-functional, and extremely easy to use. Created to provide solutions for telecom identification, TagPrint Pro speeds production and offers many options for a wide variety of labeling requirements. "What You See Is What You Get" (WYSIWYG) label creation, bar coding, serialization, label sets, wire lists, graphics and text choices are just some capabilities of TagPrint Pro software. TagPrint Pro can be utilized with HellermannTyton's wide array of label options including laser, ink jet, dot matrix, and thermal transfer printable labels.

### Easy to Use

- Beginners can use the built-in label design wizard to step through the entire label design process.
- TagPrint Pro allows the user to place graphics, text, bar codes, and lines anywhere on the label.
- The software also features built-in editing tools to ensure that labels look exactly as intended.
- TagPrint Pro can print to nearly any dot matrix, laser, ink jet, or thermal transfer printer with a valid 32-bit Windows or Windows NT printer driver.



### New Features for Version 2.0

- Alphanumeric sequences
- Print to multiple printers at one time
- Print later feature allows user to save jobs in queue and print all at one time
- Print faster
- Connect or import directly from other databases including Excel, Access, and text files
- More bar code types
- Inverse, flip, and mirror image options for graphic images
- Multi-lingual
- Print log available
- Manually adjust font size to 1/10 of a point
- Customize height and width of characters
- Customize line spacing
- Compatible with all TagPrint Pro version 1.0 files
- And much more!

### Versatility

- A built-in table allows the user to incorporate variable sets of data, graphics, or bar codes onto the label.
- The powerful sequencing feature also can be used to skip the tedious data entry process - leading to substantial cost savings through time saving.

## TagPrint™ Pro *continued*



### Label Design Features

- “What You See Is What You Get” (WYSIWYG) label design. It will print just like it looks on screen
- Manually adjusts down to 1/10th of a point
- Save label designs as .jpeg and .xml files
- Zoom up to 10,000%
- Print serial numbers on labels with the incremental text type. TagPrint Pro will automatically remember the last incremental number printed the next time the label is used
- Lock-out label designs for print only mode
- Selected “Do Not Print” option for specific objects on the label design
- Nearly any user-defined label stock size can be created



### Graphic Features

- Import graphics from all of the major graphic formats. Formats supported: .bmp, .wmf, .jpg, .pcx, .png and .tif
- Rotate graphic images 360° (90° at a time)
- Manipulate graphics by forcing them to fit or automatically centering them in a specified area
- Easily link graphics to the table for adding different graphics to different labels
- Software includes over 150 clip art images (or use your own)
- Flip, rotate, inverse or mirror image graphics customization



### Bar Code Features

- Print with the most popular bar code symbologies. Included formats: Datamatrix ECC 200, Code 39, Code 39 Extended, Code 128, EAN/UCC 128, EAN 13, Interleaved 2/5, PDF417, and UPC-A
- Preview the bar codes on-screen before printing to ensure they will fit in the space provided. The software will indicate (with a scissors icon) if space is too limited
- Control bar code specifications such as: module, ratio, compensation and height (where applicable)
- Automatically position human readable text above or below the bar code
- Military IUID compatible



**A** Easily import a variety of image types into the label design

**B** Use any Windows based font in the label design for complete customization

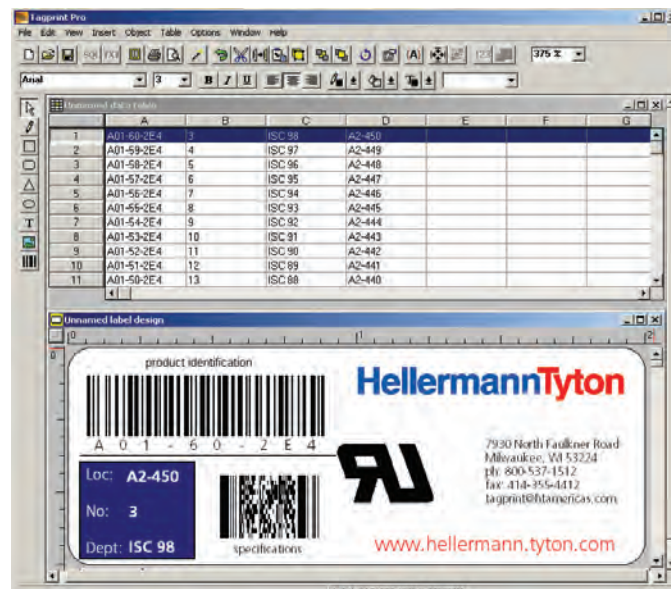
**C** Layer objects like professional page layout programs

**D** Rulers on top and side allow for exact placement of objects

**E** Easily change text color, fill color and border color to make text stand out and accomplish “full reverse” printing

**F** Allow text characters to be stretched or compressed to almost any height or width

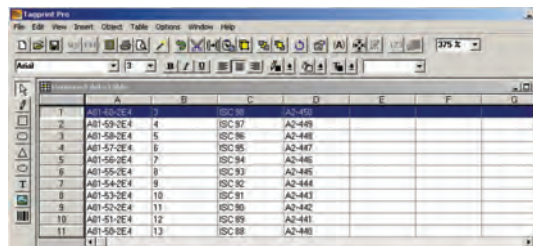
**G** Draw lines, circles and boxes on the label as a simple way of making the label look more professional



TagPrint™ Pro *continued*

## Table Features

- Use the table for labels that vary from one to the next. Enter data in the table rather than one at a time.
- Re-use the same table with different label designs to save time in data entry
- Cut and paste between cells
- Insert and delete columns and rows
- Save time by using the sequence feature for repetitive or patterned data entry
- Designate one column for the number of times each label will be printed
- Lock-out table designs for read-only mode
- Save table data as a .pdf file
- Open .xls files in program
- Connect a table to a label design and open together
- Export table data to .txt, .xls, .csv files
- Import data using ASCII or ODBC utility



## Built-In Help

- Features a built-in help guide to answer questions
- Software includes detailed manual and step-by-step "cheat" instructions for easy start-up
- Free telephone support for registered users
- Can be started in English, Spanish, German, Italian or French



## Printing Features

- Print to nearly any printer with valid 32-bit Windows driver
- Preview labels before print
- Print an optional "test" page to line up printer and labels
- Choose to print an entire page, a certain range of labels or only selected labels to reduce waste
- The option to "skip" a certain number of labels on a page will reduce wasted labels by allowing for re-use of pages
- Print to file for printing later without the software
- Print later or to multiple printers at one time
- Reverse order print from table
- Print Log records - date, time, label type and quantity
- Use Label Saver to maximize label printing efficiency

## System Requirements

- IBM compatible (Pentium is recommended)
- Operating system must be Windows 98se, ME, NT4.0, 2000 or XP, Windows 7
- 24 MB of RAM
- 16 MB of available hard-disk space

## Product Selection

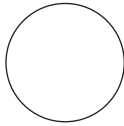
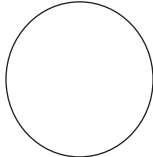
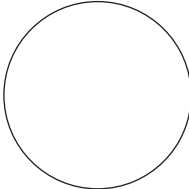
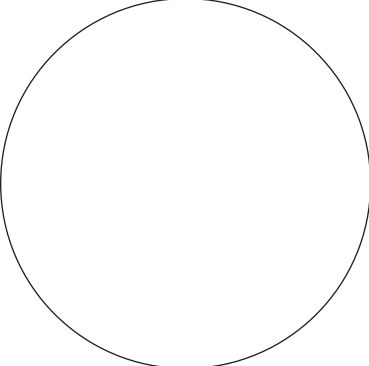
| Article No. | Part No.  | Type                           | System Requirements                    | Pkg. Qty. |
|-------------|-----------|--------------------------------|----------------------------------------|-----------|
| 556-00022   | 556-00022 | TAGPRINTPRO Version 2.0 - Full | Windows 98se, ME, NT4.0, 2000, XP or 7 | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## Wire Diameter Guide to HellermannTyton Labels

This guide can be used to determine which labels will work best with the wire diameter selected.

Simply place the end of the wire over the appropriate circle to select the best label size.

| If your wire or cable diameter is less than or equal to below, use: |                                                                                     | Thermal Transfer Labels                                                    | Laser Labels                                       | Ink Jet Labels           | Spirit 2100 Labels                                  | SwiftMark Labels                                          |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------|--------------------------|-----------------------------------------------------|-----------------------------------------------------------|
| .10"                                                                |    | TAG26T6-100B<br>TAG21T6-250<br>TAG51T3-100B                                | TAG26L-105                                         | TAG26L-994<br>TAG51J-994 | TAGH26-100<br>TAGH51-100                            | 558-00179                                                 |
| .20"                                                                |    | TAG2T5-100B<br>TAG22T3-100B<br>TAG51T3-100B                                | TAG63L-105<br>TAG49L-105<br>TAG51L-105             | TAG5J-994<br>TAG22J-994  | TAGH22-100<br>TAGH2-100                             | 558-00045, 558-00046<br>558-00047, 558-00063<br>558-00069 |
| .28"                                                                |    | TAG2T5-100B<br>TAG22T3-100B<br>TAG28T4-250<br>TAG24T1-100B<br>TAG53T2-100B | TAG2L-105<br>TAG5L-105<br>TAG63L-105<br>TAG52L-105 | TAG22J-994               | TAGH2-100<br>TAGH22-100<br>TAGH24-100<br>TAGH25-100 | 558-00071, 558-00045<br>558-00046, 558-00047<br>558-00061 |
| .54"                                                                |   | TAG9T3-100B<br>TAG1T1-100B<br>TAG10T2-100B                                 | TAG9L-105<br>TAG1L-105<br>TAG10L-105<br>TAG65L-105 | TAG9J-994                | TAGH9-100<br>TAGH10-100                             | 558-00051<br>558-00052<br>558-00053                       |
| .75"                                                                |  | TAG9T3-100B<br>TAG1T1-100B<br>TAG10T2-100B                                 | TAG9L-105<br>TAG1L-105<br>TAG10L-105<br>TAG65L-105 | TAG9J-994                | TAGH9-100<br>TAGH10-100                             | 558-00056<br>558-00057<br>558-00059<br>558-00058          |
| .94"                                                                |  | TAG3T3-100B<br>TAG6T1-100B                                                 | TAG50L-105<br>TAG64L-105                           | TAG64J-994               | TAGH3-100<br>TAGH6-100<br>TAGH95-100                |                                                           |
| 1.90"                                                               |  | TAG7T1-100B<br>TAG38T4-100B                                                |                                                    |                          |                                                     |                                                           |

## TT230SM Printer

HellermannTyton's TT230SM thermal transfer printer is the next generation of printer available for small to medium volume users looking for an easy to use and functional thermal transfer printer. The TT230SM prints to a wide variety of materials including all of HellermannTyton labels and ShrinkTrak. The TT230SM is also Ethernet network ready, which gives the user options on placing the unit away from the host computer. The TT230SM comes with a label holder (caddy) for loading large reels behind the printer for easy dispensing and printing. There also is an optional carrying case that can be used to safely transport the printer to remote job sites.



- Print on ShrinkTrak
- Print on Adhesive Labels
- Print on Tiptags
- Uses standard ribbons
- Print head 300dpi
- Barcodes: standard and 2D
- Print speed up to 3" (76.2mm) per second
- Max print width 4.1" (106mm)
- Max label width 4.37" (111mm)
- Max print length 39" (101cm)
- 8MB DRAM, 2MB Flash
- Interfaces: RS232-C, Ethernet, USB v.2.0 and Centronics
- Windows drivers: 2000, XP, NT4.0, Vista, 7
- Dimensions: 7.95" (201mm) x 10.16" (258mm) x 6.81" (172mm)
- Weight 4.4lbs (2kg)

| Technical Data              |                                      |
|-----------------------------|--------------------------------------|
| Width                       | 7.95" (201mm)                        |
| Height                      | 6.81" (172mm)                        |
| Depth                       | 10.16" (258mm)                       |
| Weight                      | 4.4 lbs                              |
| Power Supply                | 100 - 240V                           |
| Humidity                    | 10% to 95% non-condensing            |
| Operating Temperature       | +50 °F to +95 °F (+10 °C to +35 °C)  |
| Storage Temperature         | -30 °F to +160 °F (-34 °C to +71 °C) |
| Minimum label height        | 0.25"                                |
| Minimum-Maximum label width | 0.25" to 4.25"                       |

The optional carrying case is made of high impact plastic and provides a water and air-tight seal. Printer and power supply fit inside for protected portability.



| Product Selection |           |                 |                                         |           |
|-------------------|-----------|-----------------|-----------------------------------------|-----------|
| Article No.       | Part No.  | Type            | Description                             | Pkg. Qty. |
| 556-00230         | 556-00230 | TT230SM         | TT230SM Printer                         | 1         |
| 556-00231         | 556-00231 | CASE230SM       | Carrying Case for TT230SM Printer       | 1         |
| 556-00232         | 556-00232 | PRH TT230SM     | Replacement Print Head TT230SM          | 1         |
| 556-00233         | 556-00233 | RPS TT230SM     | Replacement Power Supply for TT230SM    | 1         |
| 556-00234         | 556-00234 | RPR TT230SM     | Replacement Platen Roller for TT230SM   | 1         |
| 556-00235         | 556-00235 | LABEL HOLDER    | Label Caddy                             | 1         |
| 556-00236         | 556-00236 | TT230BATTERY    | TT230SM Rechargeable Battery Pack       | 1         |
| 556-00238         | 556-00238 | CASE LG TT230SM | Large Carrying Case for TT230SM Printer | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## TT230SM Thermal Transfer Ribbons



Due to various settings in printers, as well as the different label types and variations in ribbons, each material must have its own specific ribbon. For instance, when ordering HellermannTyton 822 material labels, please specify and use the ribbon that is configured for the 822 stock. In this case, it would be the TT822 ribbon. In addition, this ribbon must be used to have the Underwriters Laboratories recognized mark on the 822 material.

### Colored Ribbons

HellermannTyton offers a series of colored ribbons for adding color to thermal transfer labels. Labels can be passed through the printer once or multiple times to add various color combinations.



| Product Selection |              | Label Material |             |       |       |     |         |         |      |     |      |       |            | Width (W)  | Length (L) |
|-------------------|--------------|----------------|-------------|-------|-------|-----|---------|---------|------|-----|------|-------|------------|------------|------------|
| Article No.       | Part No.     | Type           | Color       | Paper | 100   | 250 | 795     | 822     | 822C | 900 | 1500 | DTH   | ShrinkTrak | In. (mm)   | Ft. (M)    |
| 556-00147**       | TT822OUTSM2  | TT822OUTSM2    | Red         | •     | •     | •   | •       |         |      |     | •    |       |            | 4.33 (110) | 242 (74)   |
| 556-00148**       | TT822OUTSM3  | TT822OUTSM3    | Orange      | •     | •     | •   | •       | •       | •    |     | •    |       |            | 4.33 (110) | 242 (74)   |
| 556-00149**       | TT822OUTSM4  | TT822OUTSM4    | Yellow      | •     | •     | •   | •       | •       | •    |     | •    |       |            | 4.33 (110) | 242 (74)   |
| 556-00150**       | TT822OUTSM5  | TT822OUTSM5    | Green       | •     | •     | •   | •       | •       | •    |     | •    |       |            | 4.33 (110) | 242 (74)   |
| 556-00151**       | TT822OUTSM6  | TT822OUTSM6    | Blue        | •     | •     | •   | •       | •       | •    |     | •    |       |            | 4.33 (110) | 242 (74)   |
| 556-00152**       | TT822OUTSM7  | TT822OUTSM7    | Purple      | •     | •     | •   | •       | •       | •    |     | •    |       |            | 4.33 (110) | 242 (74)   |
| 556-00153* **     | TT822OUTSM8  | TT822OUTSM8    | Silver Gray |       |       |     |         |         |      |     | •    |       | •          | 4.33 (110) | 242 (74)   |
| 556-00143***      | TTDTHOUTSM   | TTDTHOUTSM     | Black       |       |       |     |         |         |      |     |      | • (5) | • (5)      | 4.33 (110) | 242 (74)   |
| 556-00145         | TT822OUTSM   | TT822OUTSM     | Black       | •     | (1)   | •   | • (1,2) | • (1,2) | •    |     | •    |       | • (4)      | 4.33 (110) | 242 (74)   |
| 556-00163         | TTHTSTOUTSM  | TTHTSTOUTSM    | Black       |       | ° (1) | °   |         |         |      |     |      |       | • (4)      | 4.33 (110) | 242 (74)   |
| 556-00169         | TT100OUTSM   | TT100OUTSM     | Black       | •     | ° (1) | °   |         |         |      |     |      |       | • (4)      | 4.33 (110) | 242 (74)   |
| 556-00190         | TTWHITEOUTSM | TTWHITEOUTSM   | White       |       |       |     |         |         |      |     | •    |       |            | 4.33 (110) | 229 (70)   |

Use **Part No.** for ordering and **Type** for specification purposes.

• =Recommended ribbon

° =Acceptable ribbon alternative

(1) UL Recognized material / ribbon combination with HellermannTyton thermal transfer printers

(2) CSA Normal Use approved material / ribbon combination with HellermannTyton thermal transfer printers

(3) CSA Heavy Duty Use approved material / ribbon combination with HellermannTyton thermal transfer printers

(4) Meets ASM-DTL-23053/5 Class I & III, SAE-AS81531 for print performance

(5) Outstanding chemical, abrasion and solvent resistance where UL and CSA requirements are not needed

\*\* 24 ribbon minimum order

## TTM430 / TTM460 Thermal Transfer Printer

HellermannTyton's TTM430 and TTM460 thermal transfer printers are ideal for medium to large volume users looking for an easy to use and extremely functional thermal transfer printer. The TTM430 is a high quality 300 dpi printer with excellent print resolution for text and barcodes used in general industrial applications. The TTM460 is a 600 dpi printer which produces the highest quality print for very small text or smooth graphics. Both the TTM430 and the TTM460 print to a wide variety of materials including all HellermannTyton's labels and ShrinkTrak. An optional cutter can cut all of the materials per label, or by the batch. The printers are also both ethernet and wireless network ready, which gives the user options on placing the unit independently of the host computer. While on a network, the status monitor (included in the driver) will alert users if the printer is out of ribbon and at the end of labels. The printer can even email the user if any of these activities occurs. Used along with TagPrint Pro, the TTM430 or the TTM460 will offer error free printing and seamless operations.

- TTM430 - 300 dpi thermal transfer printhead
- TTM460 - 600 dpi thermal transfer printhead
- Print speed up to 7.87" per second
- Straight through design allows easy loading of ribbon and labels (Labels are held in an interchangeable media hub)
- Larger spools or fanfold material can be fed through the back of the printer
- 64mb memory/8mb flash
- Easy to use operations and status panel
- Two adjustable gap and reflex sensors
- Lightweight/minimal foot print
- Optional cutter face plate allows labels and ShrinkTrak to be cut off after printing
- Printer status screen with date/time/network status/head temperature/ribbon amount
- Prints on ShrinkTrak, adhesive and paper labels, and TipTags/HoleTags
- Uses standard 1" core HellermannTyton ribbons: (TT100OUT, TT822OUT, TTDTHOUT, TTHSTOUT, etc.)
- Maximum print width – 4.25" (108mm)
- Minimum print width – .24" (6mm)



### Technical Data

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| Width                | 9.44" (240mm)                                                                             |
| Height               | 12.28" (312mm)                                                                            |
| Depth                | 17.13" (435mm)                                                                            |
| Power Supply         | 100-240V                                                                                  |
| Weight               | 13.2 lbs (6kg)                                                                            |
| Ventilation          | Free Air                                                                                  |
| Humidity             | 10% to 95% non-condensing                                                                 |
| Operating            | +50°F to +95°F (+10°C to +35°C)                                                           |
| Storage Temperature  | -30°F to +160°F (-34°C to +71°C)                                                          |
| Minimum Label Height | 0.25"                                                                                     |
| Minimum-Maximum      | 0.24 to 4.25"                                                                             |
| Material Diameter    | 8.27" (210mm)                                                                             |
| Material Thickness   | .0028" - .14" (.07mm - .35mm)                                                             |
| Core Diameter        | 1.49" - 3.94" (38mm - 100mm)                                                              |
| Winding Direction    | Inside or Outside                                                                         |
| Operating Systems    | Windows 2000/XP/Vista<br>32-64 bit<br>Mac OSX 10.3 and newer<br>Linux SUSE 9.0 CUPS based |

### Product Selection

| Article No. | Part No.  | Type             | Description                   | Pkg. Qty. |
|-------------|-----------|------------------|-------------------------------|-----------|
| 556-00430   | 556-00430 | TTM430           | TTM430 Printer                | 1         |
| 556-00431   | 556-00431 | 430CFP           | Cutter Face Plate             | 1         |
| 556-00432   | 556-00432 | 430WLAN          | WLAN Wireless Card            | 1         |
| 556-00433   | 556-00433 | 430RLH           | Label Holder for TTM430       | 1         |
| 556-00434   | 556-00434 | 430RRH           | Ribbon Holder for TTM430      | 1         |
| 556-03065   | 556-03065 | Printhead TTM430 | Replacement Print Head TTM430 | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## TTM430 / TTM460 Thermal Transfer Ribbons

| Product Selection |           | Type       | Color       | Label Material |       |       |         |         |       |       |       |       |            | Width (W)     |            | Length (L) |
|-------------------|-----------|------------|-------------|----------------|-------|-------|---------|---------|-------|-------|-------|-------|------------|---------------|------------|------------|
| Article No.       | Part No.  |            |             | Paper          | 100   | 250   | 795     | 822     | 822C  | 900   | 1500  | DTH   | ShrinkTrak | In. (mm)      | Ft. (M)    |            |
| 556-00101         | TT822OUT  | TT822OUT   | Black       | •              | •     | •     | •       | •       | •     |       | • (5) |       | ° (4)      | 4.33" (110.0) | 984' (300) |            |
| 556-00104         | TT100OUT  | TT100OUT   | Black       | •              | • (1) | •     | •       | •       | •     |       |       |       | ° (4)      | 4.33" (110)   | 984' (300) |            |
| 556-00162         | TTHTOUT   | TTHTOUT    | Black       |                | ° (1) | °     |         |         |       |       |       |       | • (4)      | 4.0" (101.6)  | 984' (300) |            |
| 556-00144***      | TTDTHOUT  | TTDTHOUT   | Black       |                | (1)   |       |         |         |       |       |       | • (5) | • (5)      | 4.0" (101.6)  | 984' (300) |            |
| 556-00106         | TT900OUT  | TT900OUT   | Black       |                | • (5) | • (5) | • (5)   | • (5)   | • (5) | • (5) |       |       |            | 4.0" (101.6)  | 984' (300) |            |
| 556-00155**       | TT822OUT2 | TT822OUT2  | Red         | •              | •     | •     | •       | •       | •     |       | • (5) |       |            | 4.33" (110.0) | 984' (300) |            |
| 556-00156**       | TT822OUT3 | TT822OUT3  | Orange      | •              | •     | •     | •       | •       | •     |       | • (5) |       |            | 4.33" (110.0) | 984' (300) |            |
| 556-00157**       | TT822OUT4 | TT822OUT4  | Yellow      | •              | •     | •     | •       | •       | •     |       | • (5) |       |            | 4.33" (110.0) | 984' (300) |            |
| 556-00158**       | TT822OUT5 | TT822OUT5  | Green       | •              | •     | •     | •       | •       | •     |       | • (5) |       |            | 4.33" (110.0) | 984' (300) |            |
| 556-00159**       | TT822OUT6 | TT822OUT6  | Blue        | •              | •     | •     | •       | •       | •     |       | • (5) |       |            | 4.33" (110.0) | 984' (300) |            |
| 556-00160**       | TT822OUT7 | TT822OUT7  | Purple      | •              | •     | •     | •       | •       | •     |       | • (5) |       |            | 4.33" (110.0) | 984' (300) |            |
| 556-00161         | TT822OUT8 | TT822OUT8  | Silver Gray | •              |       | •     | • (1,2) | • (1,2) | •     |       | • (5) |       | •          | 4.33" (110.0) | 984' (300) |            |
| 556-00189         | 556-00189 | TTWHITEOUT | White       | •              |       | •     | • (1,2) | • (1,2) | •     |       | • (5) |       |            | 4.33" (110)   | 984' (300) |            |

\*Call HellermannTyton for assistance when using this ribbon

\*\* 10 ribbon minimum order

• = Recommended ribbon

(1) UL Recognized material & ribbon combination with HellermannTyton thermal transfer printers

(2) CSA Normal Use approved material & ribbon combination with HellermannTyton thermal transfer printers

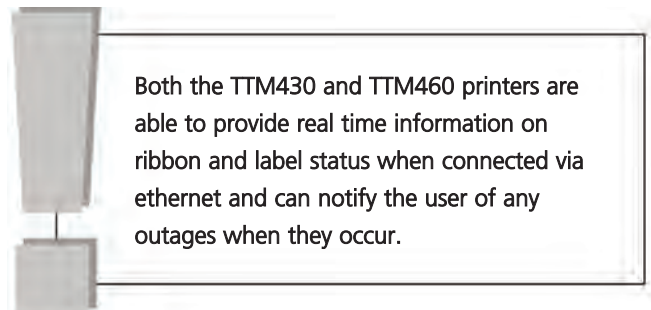
(3) CSA Heavy Duty use approved material / ribbon combination with HellermannTyton thermal transfer printers

(4) Meets ASM-DTL-23053/5 Class I & III, SAE-AS81531 for print performance

(5) Outstanding chemical, abrasion, and solvent resistance where UL and CSA requirements are not needed

## Material Shortcut Key

|            |                                             |
|------------|---------------------------------------------|
| 100        | Self-laminating Vinyl                       |
| 250        | Conformable Woven Cloth                     |
| 795        | Metalized Polyester                         |
| 822        | White Polyester                             |
| 822C       | Clear Polyester                             |
| 900        | Polyamide Film                              |
| 1500       | Continuous Vinyl                            |
| DTH        | Duratech                                    |
| ShrinkTrak | Flexible, radiation cross-linked polyolefin |



Both the TTM430 and TTM460 printers are able to provide real time information on ribbon and label status when connected via ethernet and can notify the user of any outages when they occur.

## SwiftMark Thermal Transfer Printer Ribbon

Designed specifically for the wire and cable industry, the SwiftMark sets a new standard in labeling efficiency. The SwiftMark Automatic Label Printer and Applicator prints self-laminating vinyl labels and applies them to various sizes of wire and cable, increasing labeling productivity by up to 300%. With a cycle time of just over four seconds, the SwiftMark can print and apply labels in a fraction of the time required to manually print and apply labels. This functionality increases productivity and reduces labeling errors, while providing the highest printing and application quality.

Labels can be quickly and easily designed in the accompanying Tagprint Pro software, and label files can be downloaded and stored on the SwiftMark via a USB, parallel port, or serial connection. Simply select the file and label quantity using the user-friendly touch screen, and labeling is as effortless as placing the cable in the machine and pressing a button or foot pedal.

The SwiftMark has a simple interface which makes it very easy to use, yet it is capable of printing advanced label sequences such as label sets with different serial numbers and text on each label.

### Product Features

- Fastest cycle time in the industry
- Touch screen LCD
- WYSIWYG touch screen LCD
- Marks to within .5" of the end of the cable
- Labels cables from .06" to .75" (1.52 mm to 19 mm) in diameter
- Print repeat
- Works with various sizes of self-laminating adhesive labels
- Print label sets
- Ribbon save feature minimizes ribbon usage by up to 85%
- Download large sequential databases immediately
- 300 d.p.i. thermal transfer printer
- Stores label files on removable SD card
- USB, parallel port, and serial connections
- Accommodates various types of cable and cable bundles
- Eliminates label wrinkles or "flags"
- Adjustable wire grippers
- Easy to load with labels and ribbon
- Automatically keeps track of application cycles
- Foot pedal, touch screen, and 24V wrap initiation options
- Electric universal power supply
- Prints and applies up to 7,000 labels in eight hours



### Product Selection

| Article No. | Part No.         | Type   | Description                                   | Pkg. Qty. |
|-------------|------------------|--------|-----------------------------------------------|-----------|
| 558-00060   | <b>558-00060</b> | SMLA1  | SwiftMark Printer Applicator                  | 1         |
| 558-00065   | <b>558-00065</b> | SMFP01 | Foot Pedal for SwiftMark and Autotool Systems | 1         |
| 558-00066   | <b>558-00066</b> | SMSC01 | Replacement Shipping Case                     | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## SwiftMark Thermal Transfer Printer Ribbon



SwiftMark labels utilize a ribbon save feature that maximize ribbon life. The ribbon only moves enough to accommodate each line of text printed and does not advance on a one-to-one ratio with label media. Label and ribbon loading is easy and the user has complete access to the entire ribbon and label path.

### Product Selection

| Article No. | Part No.         | Type     | Color | Width |        | Length |       |
|-------------|------------------|----------|-------|-------|--------|--------|-------|
|             |                  |          |       | In.   | (mm)   | Ft.    | (M)   |
| 556-00165   | <b>556-00165</b> | SM100OUT | Black | 2.0"  | (50.8) | 984'   | (300) |
| 558-00227   | <b>558-00227</b> | SMWAXOUT | Black | 2.0"  | (50.8) | 984'   | (300) |

Use **Part No.** for ordering and **Type** for specification purposes.

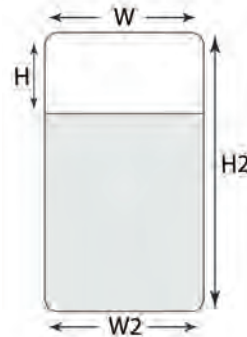
UL Recognized when used with HellermannTyton SwiftMark labels.

## SwiftMark Thermal Transfer Labels

SwiftMark labels utilize a high-quality, self-laminating vinyl film that is UL recognized when used with the SwiftMark thermal transfer printer ribbon. The vinyl has a highly adhesive bond that adheres quickly and strongly to the recommended wire insulation types.

### Material Data

|                   |                                         |
|-------------------|-----------------------------------------|
| Material          | Clear Vinyl                             |
| Printer           | SwiftMark                               |
| Liner             | 3.1 mil high speed dispensing 50# paper |
| Temperature Range | -50°F to +200°F (-46°C to +93°C)        |
| Adhesive Type     | Acrylic                                 |
| Application       | For marking wire and cable              |
| Ribbon            | TT100OUTSM                              |



### Product Selection

| Article No. | Part No.         | Type               | Width (W) |        | Height of Printable Area (H) |        | Height of Label (H2) |        | Width of Liner (W2) |         | Min. Ø Cable |        | Max. Ø Cable |        | Pkg. Qty. |
|-------------|------------------|--------------------|-----------|--------|------------------------------|--------|----------------------|--------|---------------------|---------|--------------|--------|--------------|--------|-----------|
|             |                  |                    | In.       | (mm.)  | In.                          | (mm.)  | In.                  | (mm.)  | In.                 | (mm.)   | In.          | (mm.)  | In.          | (mm.)  |           |
| 558-00045   | <b>558-00045</b> | TAG38-76W127SM     | .5"       | (12.7) | .5"                          | (12.7) | 1.4"                 | (36.5) | .90"                | (22.86) | .137"        | (3.5)  | .299"        | (7.6)  | 2500      |
| 558-00046   | <b>558-00046</b> | TAG38-76W254SM     | 1.0"      | (25.4) | .5"                          | (12.7) | 1.4"                 | (36.5) | 1.125"              | (28.57) | .137"        | (3.5)  | .299"        | (7.6)  | 2500      |
| 558-00047   | <b>558-00047</b> | TAG38-76W381SM     | 1.5"      | (38.1) | .5"                          | (12.7) | 1.4"                 | (36.5) | 1.625"              | (41.27) | .137"        | (3.5)  | .299"        | (7.6)  | 2500      |
| 558-00061   | <b>558-00061</b> | TAG38-76W508SM     | 1.0"      | (25.4) | .75"                         | (19.1) | 1.4"                 | (36.5) | 1.125"              | (28.57) | .137"        | (3.5)  | .299"        | (7.6)  | 2500      |
| 558-00179   | <b>558-00179</b> | TAG15-30W127SM     | .5"       | (12.7) | .35"                         | (8.9)  | .875"                | (22.9) | .90"                | (22.86) | .059"        | (1.5)  | .129"        | (3.3)  | 4500      |
| 558-00063   | <b>558-00063</b> | TAG20-47W203SM     | .8"       | (20.3) | .35"                         | (8.9)  | .94"                 | (23.9) | 1.125"              | (31.75) | .078"        | (2.0)  | .18"         | (4.7)  | 2500      |
| 558-00052   | <b>558-00052</b> | TAG61-121W254SM    | 1.0"      | (25.4) | .75"                         | (19.1) | 2.25"                | (57.1) | 1.125"              | (28.57) | .21"         | (5.5)  | .47"         | (12.1) | 1000      |
| 558-00053   | <b>558-00053</b> | TAG61-121W381SM    | 1.5"      | (38.1) | .75"                         | (19.1) | 2.25"                | (57.1) | 1.625"              | (41.27) | .21"         | (5.5)  | .47"         | (12.1) | 1000      |
| 558-00056   | <b>558-00056</b> | TAG85-100W381SM    | 1.5"      | (38.1) | 1.0"                         | (25.4) | 3.0"                 | (76.2) | 1.625"              | (41.27) | .39"         | (10.1) | .79"         | (20.2) | 1000      |
| 558-00057   | <b>558-00057</b> | TAG85-100W444SM    | 1.75"     | (44.5) | 1.0"                         | (25.4) | 3.0"                 | (76.2) | 1.875"              | (47.62) | .39"         | (10.1) | .79"         | (20.2) | 1000      |
| 558-00058   | <b>558-00058</b> | TAG85-100W508SM    | 2.0"      | (50.8) | 1.0"                         | (25.4) | 3.0"                 | (76.2) | 2.125"              | (53.97) | .39"         | (10.1) | .79"         | (20.2) | 1000      |
| 558-00059   | <b>558-00059</b> | TAG111-190W508SM   | 2.0"      | (50.8) | 1.5"                         | (38.1) | 3.75"                | (95.3) | 2.125"              | (53.97) | .39"         | (10.0) | .87"         | (22.2) | 1000      |
| 558-00069   | <b>558-00069</b> | TAG26-53W254SM     | 1.0"      | (25.4) | .35"                         | (8.9)  | 1.0"                 | (25.4) | 1.125"              | (28.57) | .10"         | (2.6)  | .20"         | (5.3)  | 5000      |
| 558-00071   | <b>558-00071</b> | TAG38-81W254SM     | 1.0"      | (25.4) | .5"                          | (12.7) | 1.5"                 | (38.1) | 1.125"              | (28.57) | .15"         | (3.8)  | .32"         | (8.1)  | 2500      |
| 558-00216   | <b>558-00216</b> | TAG20-47W508SM     | 2.0"      | (50.8) | .5"                          | (12.7) | 1.0"                 | (25.4) | 2.125"              | (53.97) | .078"        | (2.0)  | .18"         | (4.7)  | 4500      |
| 558-00198   | <b>558-00198</b> | TAG111-190W254SM25 | 1.0"      | (25.4) | 1.0"                         | (25.4) | 3.75"                | (95.3) | 1.125"              | (28.57) | .39"         | (10.0) | .87"         | (22.2) | 1000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

For product information visit [www.hellermann.tyton.com](http://www.hellermann.tyton.com) or call 800.537.1512

## Thermal Transfer Label Materials

HellermannTyton provides a wide variety of thermal transfer label stocks to fit most applications. Materials can be used in applications ranging from high heat, wire wrapping, and long-term indelible marking. A mix of sizes and types allows for stock solutions to most labeling needs. For instance, HellermannTyton provides thermal transfer labels in a high-performance white polyester. HellermannTyton 822 material provides a high-quality mark when used with the TT822 ribbon and the TTM430 printer, or compatible. If the 822 material is used in combination with the TT822 ribbon, the TTM430 printer or specific recommended printers, a UL Recognized mark can be achieved.

| Label Material    | 100B Material                                                                     | 250 Material                                   | 882C Material                                 |
|-------------------|-----------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------|
| Material Name     | 100 Clear Vinyl                                                                   | Conformable Woven Cloth                        | Clear Polyester                               |
| Printer           | Thermal Transfer Desktop                                                          | Thermal Transfer Desktop                       | Thermal Transfer Desktop                      |
| Topcoat           | Specially formulated for superb ink anchorage                                     | Specially formulated for superb ink anchorage  | Specially formulated for superb ink anchorage |
| Liner             | 50#                                                                               | 55#                                            | 50#                                           |
| Temperature Range | -50°F to +200°F (-46°C to +93°C)                                                  | -40°F to +250°F (-40°C to +121°C)              | -40°F to +250°F (-40°C to +121°C)             |
| Adhesive Type     | Permanent pressure sensitive acrylic                                              | Permanent pressure sensitive acrylic           | Permanent pressure sensitive acrylic          |
| Application       | For wires, cable and other conformable surfaces                                   | For wrapping and flagging on small gauge wires | For flat or slightly curved surfaces only     |
| Certifications    |  |                                                |                                               |
| Specifications    | MH18396                                                                           | N/A                                            | N/A                                           |
| Ribbon            | TT100OUTSM<br>TT100OUT<br>TT822OUT<br>TT822OUTSM<br>TTHSTOUT<br>TTHSTOUTSM        | TT100OUTSM<br>TT100OUT                         | TT822OUT<br>TT822OUTSM                        |
| Notes             | N/A                                                                               | N/A                                            | N/A                                           |

| Label Material    | 336 Material                                                                        | 795 Material                                                                                                 | 799 Material                                                                         | 822 Material                                                                                               |
|-------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Material Name     | White Polyester                                                                     | Metalized Polyester                                                                                          | Metalized Polyester                                                                  | White Polyester                                                                                            |
| Printer(s)        | Thermal Transfer Desktop & Spirit Handheld                                          | Thermal Transfer Desktop                                                                                     | Spirit Portable Printer                                                              | Thermal Transfer Desktop                                                                                   |
| Topcoat           | Specially formulated for superb ink anchorage                                       | Specially formulated for superb ink anchorage                                                                | Specially formulated for superb ink anchorage                                        | Specially formulated for superb ink anchorage                                                              |
| Liner             | 50#                                                                                 | 50#                                                                                                          | 50#                                                                                  | 50#                                                                                                        |
| Temperature Range | -40°F to +300°F (-40°C to +149°C)                                                   | -40°F to +300°F (-40°C to +149°C)                                                                            | -40°F to +300°F (-40°C to +149°C)                                                    | -20°F to +300°F (-29°C to +149°C)                                                                          |
| Adhesive Type     | Permanent pressure-sensitive acrylic                                                | Permanent pressure-sensitive acrylic                                                                         | Permanent pressure-sensitive acrylic                                                 | Permanent pressure-sensitive acrylic                                                                       |
| Application       | For flat or slightly curved surfaces                                                | For flat or slightly curved surfaces only                                                                    | For flat or slightly curved surfaces only                                            | For flat or slightly curved surfaces only                                                                  |
| Certifications    |  |                           |  |                       |
| Specifications    | MH18396                                                                             | Use with 822OUT for UL and CSA recognition<br>MH18396 + 106410                                               | Use HHIGR for UL recognition<br>MH18396                                              | Use with TT822TYPE ribbon for UL and CSA recognition<br>MH18396                                            |
| Ribbon            | TT822OUT*<br>TT822OUTSM*<br>HHIGR                                                   | TT822OUT**<br>TT822OUTSM**                                                                                   | HHIGR                                                                                | Use with TT822TYPE ribbon for UL and CSA recognition                                                       |
| Notes             |                                                                                     | **Use the TT822TYPE ribbon for UL & CSA Recognition on all HellermannTyton desktop thermal transfer printers | Use HHIGR for UL Recognition on the Spirit family of printers.                       | Use the TT822TYPE ribbon for UL & CSA Recognition on all HellermannTyton desktop thermal transfer printers |

## Spirit® 2100 Portable Printing System



HellermannTyton's Spirit® 2100 portable printing system is easy to use and features "What You See Is What You Get" (WYSIWYG) label design and creation on a LCD screen that shows the outline of the label. Just type in the text (which is displayed on the screen), choose from several print sizes, and press the print button. It's that simple! The printer automatically detects the label and determines the proper size template for easy editing.

The Spirit 2100 provides fast, high quality, thermal transfer printing for permanent and highly legible label printing. The Spirit 2100 prints on many different types of label materials for wire, cable, and component marking. Self-laminating, white and metalized polyester, and tamper evident materials for calibration and security labeling are available for use with the Spirit system.

### Technical Data

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Printhead             | 203 dpi thermal transfer                                   |
| Battery Charger       | NiCad                                                      |
| Weight                | 2.5 lbs.                                                   |
| Shipping Weight       | 7.5 lbs.                                                   |
| Maximum Label Width   | 2.0"                                                       |
| Memory                | 68K SRAM, 128 Program Memory, 256K of non-volatile storage |
| Chargers              | 120V, 130V, 230V or 100V applications                      |
| LCD screen            | 2.0" x 1.5"                                                |
| Operating Temperature | +40°F to +122°F (+4°C to +50°C)                            |
| Storage Temperature   | -30°F to +160°F (-34°C to +71°C)                           |

- "What You See Is What You Get" (WYSIWYG) label design and creation. The label will print just like it looks on screen
- Choose from normal or bold fonts to complete the label design appearance
- Easily change text sizes: tiny, normal or large text
- Left, right, or center justify text
- Automatically centers text during label editing process
- Easily import graphic images into the label design
- Print with popular bar code symbologies including Code 39, Code 128 and EAN
- Vertical print option for patch panels, wall plates, terminal blocks and wire markers
- Print serial numbers on labels with the "serial" text type. Spirit 2100 will automatically remember the last serial number printed the next time the saved label is used
- The ribbon is longer than the industry standard which translates into fewer ribbon change-overs
- Battery powered and a convenient hand strap makes the Spirit 2100 extremely portable and accessible. AC adapter also available
- Label sizes and user interface can be upgraded in the field
- Auto "fill" feature to copy one line of text to all other lines on the label
- Download data files from Excel and other Windows compatible databases
- Edit logging feature will keep track of printed labels and download printed information back to pc



### Product Selection

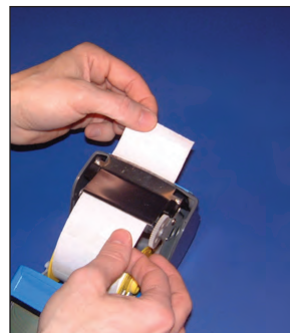
| Article No. | Part No. | Type   | Description                                                                                                                                                                                                                                                                                        | Pkg. Qty. |
|-------------|----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 557-00085   | HT2100   | HT2100 | Portable Printing System includes: Spirit 2100 printer, HT2100 rechargeable battery and charger, ribbon cartridge, TAGH73-336, printer manual, CD-Rom tutorial, hard-shell case, cleaning card, cleaning pen and Spiritlink computer interface software (interface software cable sold separately) | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

## Spirit® 2100 Portable Printing System *continued*

### Label Loading

Each roll of labels is loaded onto a reusable spindle. Simply drop the label roll into the printer, pull the labels over the top, (like loading film into a camera) and close the cover. No need to mechanically feed and align the labels.



## Spirit® 2100 Accessories

| Product Selection |           |           |                                       |           |
|-------------------|-----------|-----------|---------------------------------------|-----------|
| Article No.       | Part No.  | Type      | Description                           | Pkg. Qty. |
| 591-00076         | BC10      | BC10      | Battery Charger                       | 1         |
| 557-00002         | 2100CASE  | 2100CASE  | Spirit Carrying Case Replacement      | 1         |
| 557-00004         | 2100CABLE | 2100CABLE | SpiritLink Interface Cable            | 1         |
| 557-00003         | RBP1      | RBP1      | Battery Pack                          | 1         |
| 557-00005         | 2100PEN   | 2100PEN   | Cleaning Pen                          | 1         |
| 557-00006         | TS3003039 | TS3003039 | Spirit Label Spindle Roll Replacement | 1         |
| 557-00007         | 557-00007 | 557-00007 | Spirit Label Spindle Cap Replacement  | 1         |
| 557-00008         | 2100CARD  | 2100CARD  | Printhead Cleaning Card               | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

### Ribbon

The ribbon is supplied in a self-contained cartridge for easy loading. *One ribbon per package.*



*Spirit Ribbons*

| Product Selection |          |       |                              |       |        |           |
|-------------------|----------|-------|------------------------------|-------|--------|-----------|
| Article No.       | Part No. | Type  | Description                  | Width | Height | Pkg. Qty. |
| 557-00009*        | HHIGR    | HHIGR | Replacement Ribbon Cartridge | 2.0"  | 2.50"  | 131 ft    |
| 557-00092         | HHHST    | HHHST | Replacement Ribbon Cartridge | 2.0"  | 2.50"  | 131 ft    |
| 557-00075**       | HHDTH    | HHDTH | Replacement Durattach Ribbon | 2.0"  | 2.50"  | 131 ft    |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

\* HHIGR works on all materials

\*\* HHDTTH can only be used with label materials that have the DTH extension. This provides superior performance to most chemicals and solvents.

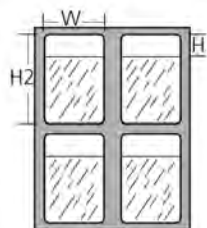
## Spirit® 2100 Portable Printing System Labels

## Product Selection

| Article No. | Part No.          | Type   | Material                            | Color        | Width (W) | Length of Writeable Area (H) | Length of Label (H2) | Liner Width (WL) | Pkg. Qty. |
|-------------|-------------------|--------|-------------------------------------|--------------|-----------|------------------------------|----------------------|------------------|-----------|
| 557-00011   | <b>TAGH2-100</b>  | TAGH2  | Type 100, Self-Laminating Vinyl (A) | White        | .5"       | .5"                          | 1.435"               | .875             | 250       |
| 557-00013   | <b>TAGH3-100</b>  | TAGH3  | Type 100, Self-Laminating Vinyl (A) | White        | 1.0"      | 1.0"                         | 3.75"                | 1.125            | 100       |
| 557-00015   | <b>TAGH6-100</b>  | TAGH6  | Type 100, Self-Laminating Vinyl (A) | White        | 2.0"      | 1.0"                         | 3.75"                | 2.125            | 100       |
| 557-00018   | <b>TAGH9-100</b>  | TAGH9  | Type 100, Self-Laminating Vinyl (A) | White        | 1.0"      | .75"                         | 2.25"                | 1.125            | 100       |
| 557-00020   | <b>TAGH10-100</b> | TAGH1  | Type 100, Self-Laminating Vinyl (A) | White        | 2.0"      | .75"                         | 2.25"                | 2.125            | 100       |
| 557-00021   | <b>TAGH22-100</b> | TAGH2  | Type 100, Self-Laminating Vinyl (A) | White        | 1.0"      | .5"                          | 1.435"               | 1.125            | 250       |
| 557-00026   | <b>TAGH26-100</b> | TAGH2  | Type 100, Self-Laminating Vinyl (A) | White        | .5"       | .35"                         | .75"                 | .875             | 500       |
| 557-00027   | <b>TAGH51-100</b> | TAGH5  | Type 100, Self-Laminating Vinyl (A) | White        | 1.0"      | .35"                         | .75"                 | 1.125            | 500       |
| 557-00028   | <b>TAGH95-100</b> | TAGH9  | Type 100, Self-Laminating Vinyl (A) | White        | 1.5"      | 1.0"                         | 3.75"                | 1.625            | 100       |
| 557-00037   | <b>TAGH12-336</b> | TAGH1  | Type 336, Polyester (B)             | White        | 1.25"     | .375"                        | -                    | 1.375            | 500       |
| 557-00076   | <b>TAGH13-336</b> | TAGH1  | Type 336, Polyester (B)             | White        | .75"      | .25"                         | -                    | .875             | 750       |
| 557-00039   | <b>TAGH14-336</b> | TAGH1  | Type 336, Polyester (B)             | White        | 1.0"      | .375"                        | -                    | 1.125            | 500       |
| 557-00040   | <b>TAGH15-336</b> | TAGH1  | Type 336, Polyester (B)             | White        | 1.0"      | .5"                          | -                    | 1.125            | 500       |
| 557-00042   | <b>TAGH16-336</b> | TAGH1  | Type 336, Polyester (B)             | White        | .9"       | .25"                         | -                    | 1.025            | 750       |
| 557-00043   | <b>TAGH17-336</b> | TAGH1  | Type 336, Polyester (B)             | White        | 1.5"      | .25"                         | -                    | 1.625            | 750       |
| 557-00044   | <b>TAGH27-336</b> | TAGH2  | Type 336, Polyester (B)             | White        | 1.5"      | .75"                         | -                    | 1.625            | 500       |
| 557-00045   | <b>TAGH35-336</b> | TAGH3  | Type 336, Polyester (B)             | White        | 2.0"      | .375"                        | -                    | 2.125            | 500       |
| 557-00046   | <b>TAGH48-336</b> | TAGH4  | Type 336, Polyester (B)             | White        | .8"       | .5"                          | -                    | .925             | 500       |
| 557-00048   | <b>TAGH71-336</b> | TAGH7  | Type 336, Polyester (B)             | White        | .5"       | .435"                        | -                    | .875             | 500       |
| 557-00049   | <b>TAGH73-336</b> | TAGH7  | Type 336, Polyester (B)             | White        | 2.0"      | 1.0"                         | -                    | 2.125            | 250       |
| 557-00055   | <b>TAGH86-336</b> | TAGH8  | Type 336, Polyester (B)             | White        | 2.0"      | .25"                         | -                    | 2.125            | 750       |
| 557-00057   | <b>TAGH88-336</b> | TAGH8  | Type 336, Polyester (B)             | White        | 1.5"      | .375"                        | -                    | 1.625            | 500       |
| 557-00059   | <b>TAGH90-336</b> | TAGH9  | Type 336, Polyester (B)             | White        | 1.5"      | .5"                          | -                    | 1.625            | 500       |
| 557-00061   | <b>TAGH92-336</b> | TAGH9  | Type 336, Polyester (B)             | White        | 1.0"      | .75"                         | -                    | 2.125            | 500       |
| 557-00062   | <b>TAGH94-336</b> | TAGH9  | Type 336, Polyester (B)             | White        | 1.5"      | 1.25"                        | -                    | 1.625            | 250       |
| 557-00063   | <b>TAGHPP-336</b> | TAGHPP | Type 336, Polyester (B)             | White        | .875"     | .333"                        | -                    | .874             | 500       |
| 591-00065   | <b>TAGH97-336</b> | TAGH9  | Type 336, Polyester (B)             | White        | 1.875"    | .25"                         | -                    | 2.0              | 750       |
| 591-00117   | <b>TAGH98-336</b> | TAGH9  | Type 336, Polyester (B)             | White        | 1.9"      | .375"                        | -                    | 2.025            | 250       |
| 557-00066   | <b>TAGHTP-336</b> | TAGHTP | Type 336, Polyester (B)             | White        | .333"     | .444"                        | -                    | 1.125            | 50        |
| 557-00032   | <b>TAGH73-799</b> | TAGH7  | Type 799, Polyester (B)             | Silver-matte | 2.0"      | 1.0"                         | -                    | 2.125            | 250       |
| 557-00033   | <b>TAGH75-799</b> | TAGH7  | Type 799, Polyester (B)             | Silver-matte | 2.0"      | .625"                        | -                    | 2.125            | 500       |
| 557-00035   | <b>TAGH92-799</b> | TAGH9  | Type 799, Polyester (B)             | Silver-matte | 1.0"      | .75"                         | -                    | 2.125            | 500       |
| 557-00036   | <b>TAGH94-799</b> | TAGH9  | Type 799, Polyester (B)             | Silver-matte | 1.5"      | 1.25"                        | -                    | 1.625            | 250       |

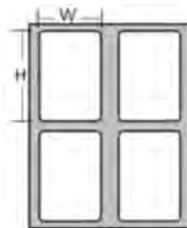
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

A



Self-Laminating

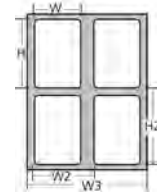
B



Blank

## Thermal Transfer Labels

HellermannTyton thermal transfer labels provide the best printing quality. These labels are particularly suitable for permanent marking on the flat surfaces of production machines and equipment. The technology used in the printing of thermal transfer labels produces the most accurate barcodes of all existing printing technologies. The large selection of labels makes it easy to find the correct label for almost any application. Thermal transfer labels are designed for high heat and are resistant to chemicals as well as petroleum based oils and solvents.

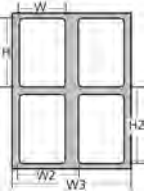


### Product Selection

| Product Selection |             | Type    | Drawing Reference | Width (W)       |         | Height (H) |         | Vertical Repeat (H2) |       | Horizontal Repeat (W2) |       | Width of Liner (W3) |        | Labels per Row | Pkg. Qty. |       |
|-------------------|-------------|---------|-------------------|-----------------|---------|------------|---------|----------------------|-------|------------------------|-------|---------------------|--------|----------------|-----------|-------|
| Article No.       | Part No.    |         |                   | pages (168-169) | In.     | (mm.)      | In.     | (mm.)                | In.   | (mm.)                  | In.   | (mm.)               | In.    |                |           | (mm.) |
|                   |             |         |                   |                 |         |            |         |                      |       |                        |       |                     |        |                |           |       |
| 250 Material      |             |         |                   |                 |         |            |         |                      |       |                        |       |                     |        |                |           |       |
| 598-00277         | TYHCT-250   | TYHC    | A                 | .250"           | (6.35)  | 1.50"      | (38.10) | 1.625                | 41.27 | .250"                  | 6.35  | 4.120"              | 104.70 | 16             | 5000      |       |
| 596-21250         | TAG21T6-250 | TAG21T6 | B                 | .5"             | (12.7)  | .75"       | (19.05) | .875"                | 22.22 | .5"                    | 12.7  | 3.25"               | 82.55  | 6              | 10000     |       |
| 596-11250         | TAG11T4-250 | TAG11T4 | C                 | .65"            | (16.5)  | .2"        | (5.08)  | .3"                  | 7.62  | .65"                   | 16.5  | 2.6"                | 66.04  | 4              | 5000      |       |
| 596-28250         | TAG28T4-250 | TAG28T4 | D                 | .80"            | (20.3)  | 1.43"      | (36.3)  | 1.62"                | 41.1  | .80"                   | 20.3  | 3.45"               | 87.6   | 4              | 5000      |       |
| 596-15250         | TAG15T3-250 | TAG15T3 | E                 | 1.0"            | (25.4)  | .5"        | (12.7)  | .6"                  | 15.24 | 1.0"                   | 25.4  | 3.35"               | 85.09  | 3              | 10000     |       |
| 596-00044         | TAG35T2-250 | TAG35T2 | F                 | 2.0"            | (50.8)  | .375"      | (9.53)  | .50"                 | 12.7  | 2.0"                   | 50.8  | 4.1"                | 104.14 | 2              | 10000     |       |
| 336 Material      |             |         |                   |                 |         |            |         |                      |       |                        |       |                     |        |                |           |       |
| 596-00026         | TAG96T1-336 | TAG96T1 | G                 | 1.875"          | (47.6)  | .25"       | (6.35)  | .375"                | 9.35  | 1.875"                 | 47.6  | 2.0"                | 50.8   | 1              | 5000      |       |
| 596-00041         | TAG69T1-336 | TAG69T1 | H                 | 2.0"            | (50.8)  | .275"      | (6.98)  | .5"                  | 12.7  | 2.0"                   | 50.8  | 2.125"              | 53.97  | 1              | 10000     |       |
| 596-00040         | TAG68T1-336 | TAG68T1 | J                 | 3.8"            | (96.5)  | .275"      | (6.98)  | .5"                  | 12.7  | 3.8"                   | 96.5  | 4.0"                | 101.6  | 1              | 10000     |       |
| 795 Material      |             |         |                   |                 |         |            |         |                      |       |                        |       |                     |        |                |           |       |
| 596-15795         | TAG15T3-795 | TAG15T3 | E                 | 1.0"            | (25.4)  | .5"        | (12.7)  | .6"                  | 15.24 | 1.0"                   | 25.4  | 3.35"               | 85.09  | 3              | 10000     |       |
| 596-27795         | TAG27T1-795 | TAG27T1 | J                 | 1.5"            | (38.11) | .75"       | (19.05) | .875"                | 22.2  | 1.5"                   | 38.11 | 2.20"               | 55.88  | 1              | 3000      |       |
| 596-75795         | TAG75T1-795 | TAG75T1 | K                 | 2.0"            | (50.8)  | .625"      | (15.87) | .75"                 | 19.05 | 2.0"                   | 50.8  | 2.12"               | 53.8   | 1              | 2000      |       |
| 596-73795         | TAG73T1-795 | TAG73T1 | AA                | 2.0"            | (50.8)  | 1.0"       | (25.4)  | 1.125"               | 28.57 | 1.0"                   | 25.4  | 2.20"               | 55.83  | 1              | 3000      |       |
| 596-76795         | TAG76T1-795 | TAG76T1 | L                 | 2.5"            | (63.5)  | 2.0"       | (50.8)  | 2.12"                | 53.8  | 2.5"                   | 63.5  | 2.62"               | 66.5   | 1              | 1000      |       |
| 596-72795         | TAG72T1-795 | TAG72T1 | M                 | 2.75"           | (69.85) | 1.25"      | (31.75) | 1.375"               | 34.93 | 2.75"                  | 69.85 | 2.95"               | 74.95  | 1              | 5000      |       |
| 596-78795         | TAG78T1-795 | TAG78T1 | N                 | 3.0"            | (76.2)  | 4.0"       | (101.6) | 4.12"                | 104.7 | 3.0"                   | 76.2  | 3.12"               | 79.2   | 1              | 500       |       |
| 596-80795         | TAG80T1-795 | TAG80T1 | O                 | 3.0"            | (76.2)  | 5.0"       | (127)   | 3.0"                 | 76.2  | 3.0"                   | 76.2  | 3.125"              | 79.37  | 1              | 500       |       |
| 596-79795         | TAG79T1-795 | TAG79T1 | P                 | 4.0"            | (101.6) | 2.0"       | (50.8)  | 2.12"                | 53.97 | 4.0"                   | 101.6 | 4.25"               | 107.9  | 1              | 500       |       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

\* TAG17T2-822 not recommended for TT10SM, TT210SM, TT230SM, TT300SM, TT310SM, and TT330SM printers. Use TAG82T2 instead.

Thermal Transfer Labels *continued*

| Product Selection            |                  |          |                   |           |         |            |         |                      |       |                        |       |                     |        |                |           |
|------------------------------|------------------|----------|-------------------|-----------|---------|------------|---------|----------------------|-------|------------------------|-------|---------------------|--------|----------------|-----------|
| Article No.                  | Part No.         | Type     | Drawing Reference | Width (W) |         | Height (H) |         | Vertical Repeat (H2) |       | Horizontal Repeat (W2) |       | Width of Liner (W3) |        | Labels per Row | Pkg. Qty. |
|                              |                  |          | (pages 168-169)   | In.       | (mm.)   | In.        | (mm.)   | In.                  | (mm.) | In.                    | (mm.) | In.                 | (mm.)  |                |           |
| 822 Material                 |                  |          |                   |           |         |            |         |                      |       |                        |       |                     |        |                |           |
| 596-27822                    | TAG27T1-822      | TAG27T1  | J                 | 1.5"      | (38.11) | .75"       | (19.05) | .875"                | 22.2  | 1.5"                   | 38.11 | 2.20"               | 55.88  | 1              | 3000      |
| 596-00019                    | TAG75T1-822      | TAG75T1  | K                 | 2.0"      | (50.8)  | .625"      | (15.87) | .75"                 | 19.05 | 2.0"                   | 50.8  | 2.12"               | 53.8   | 1              | 2000      |
| 596-70822                    | TAG70T12-822     | TAG70T12 | Q                 | .25"      | (6.35)  | .25"       | (6.35)  | .5"                  | 12.7  | .25"                   | 6.35  | 3.2"                | 81.2   | 12             | 10000     |
| 596-00028                    | TAGPP1T6-822     | TAGPP1T6 | R                 | .625"     | (15.87) | .333"      | (8.45)  | .75"                 | 19.05 | .625"                  | 15.87 | 3.8"                | 96.52  | 6              | 1000      |
| 596-00082                    | TAGPP1T6-82210M  | TAGPP1T6 | R                 | .625"     | (15.87) | .333"      | (8.45)  | .75"                 | 19.05 | .625"                  | 15.87 | 3.8"                | 96.52  | 6              | 10000     |
| 596-11822                    | TAG11T4-822      | TAG11T4  | C                 | .65"      | (16.5)  | .2"        | (5.08)  | .3"                  | 7.62  | .65"                   | 16.5  | 2.6"                | 66.04  | 4              | 5000      |
| 596-00046                    | TAGPP2T6-822     | TAGPP2T6 | T                 | .66"      | (16.7)  | .33"       | (8.38)  | .75"                 | 19.05 | .66"                   | 16.7  | 4.125"              | 104.7  | 6              | 1000      |
| 596-00083                    | TAGPP3T4-822     | TAGPP3T4 | U                 | .688"     | (17.4)  | .25"       | (6.35)  | .375"                | 9.52  | .688"                  | 17.4  | 2.9"                | 73.66  | 4              | 1000      |
| 596-13822                    | TAG13T4-822      | TAG13T4  | V                 | .75"      | (19.05) | .25"       | (6.35)  | .35"                 | 8.89  | .75"                   | 19.05 | 3.35"               | 85.09  | 4              | 10000     |
| 596-15822                    | TAG15T3-822      | TAG15T3  | E                 | 1.0"      | (25.4)  | .5"        | (12.7)  | .6"                  | 15.24 | 1.0"                   | 25.4  | 3.35"               | 85.09  | 3              | 1000      |
| 596-84822                    | TAG84T3-822      | TAG84T3  | S                 | 1.25"     | (31.75) | .375"      | (9.53)  | .50"                 | 12.7  | 1.25"                  | 31.75 | 4.0"                | 101.6  | 3              | 10000     |
| 596-00023                    | TAG83T1-822      | TAG83T1  | W                 | 4.0"      | (101.6) | .312"      | (7.52)  | .438"                | 11.13 | 4.0"                   | 101.6 | 4.1"                | 104.14 | 1              | 5000      |
| 596-00022                    | TAG81T8-822      | TAG81T8  | X                 | .325"     | (8.25)  | .20"       | (5.08)  | .30"                 | 7.62  | .325"                  | 8.25  | 2.6"                | 66.04  | 8              | 5000      |
| 596-16822                    | TAG16T3-822      | TAG16T3  | Y                 | .9"       | (22.86) | .25"       | (6.35)  | .35"                 | 8.89  | .9"                    | 22.86 | 3.35"               | 85.09  | 3              | 10000     |
| 596-17822                    | TAG17T2-822      | TAG17T2  | Z                 | 1.5"      | (38.11) | .25"       | (6.35)  | .35"                 | 8.89  | 1.65"                  | 41.98 | 3.35"               | 85.09  | 2              | 10000     |
| 596-73822                    | TAG73T1-822      | TAG73T1  | AA                | 2.0"      | (50.8)  | 1.0"       | (25.4)  | 1.125"               | 28.57 | 1.0"                   | 25.4  | 2.20"               | 55.83  | 1              | 3000      |
| 596-42822                    | TAG72T1-822      | TAG72T1  | M                 | 2.75"     | (69.85) | 1.25"      | (31.75) | 1.375"               | 34.93 | 2.75"                  | 69.85 | 2.95"               | 74.95  | 1              | 3000      |
| 596-71822                    | TAG71T5-822      | TAG71T5  | BB                | .5"       | (12.7)  | .43"       | (11.1)  | .662"                | 16.81 | .43"                   | 11.1  | 3.35"               | 85.09  | 5              | 10000     |
| 596-82822                    | TAG82T2-822      | TAG82T2  | CC                | 1.5"      | (38.1)  | .25"       | (6.35)  | .30"                 | 7.62  | 1.5"                   | 38.1  | 3.20"               | 81.28  | 2              | 10000     |
| 822C Material*               |                  |          |                   |           |         |            |         |                      |       |                        |       |                     |        |                |           |
| 596-00029                    | TAGPP1T6-822C    | TAGPP1T6 | R                 | .625"     | (15.87) | .333"      | (8.45)  | .75"                 | 19.05 | .625"                  | 15.87 | 3.8"                | 96.52  | 6              | 1000      |
| 596-00030                    | TAGPP1T6-822C10M | TAGPP1T6 | R                 | .625"     | (15.87) | .333"      | (8.45)  | .75"                 | 19.05 | .625"                  | 15.87 | 3.8"                | 96.52  | 6              | 10000     |
| 596-00003                    | TAG11T4-822C     | TAG11T4  | C                 | .65"      | (16.5)  | .2"        | (5.08)  | .3"                  | 7.62  | .65"                   | 16.5  | 2.6"                | 66.04  | 4              | 5000      |
| 596-00047                    | TAGPP2T6-822C    | TAGPP2T6 | T                 | .66"      | (16.7)  | .33"       | (8.38)  | .75"                 | 19.05 | .66"                   | 16.7  | 4.125"              | 104.7  | 6              | 1000      |
| 596-00084                    | TAGPP3T4-822C    | TAGPP3T4 | U                 | .688"     | (17.4)  | .25"       | (6.35)  | .375"                | 9.52  | .688"                  | 17.4  | 2.9"                | 73.66  | 4              | 1000      |
| 596-00001                    | TAG15T3-822C10M  | TAG15T3  | E                 | 1.0"      | (25.4)  | .5"        | (12.7)  | .6"                  | 15.24 | 1.0"                   | 25.4  | 3.35"               | 85.09  | 3              | 10000     |
| 596-00043                    | TAG27T1-822C     | TAG27T1  | J                 | 1.5"      | (38.11) | .75"       | (19.05) | .875"                | 22.2  | 1.5"                   | 38.11 | 2.20"               | 55.88  | 1              | 3000      |
| DTH Material***              |                  |          |                   |           |         |            |         |                      |       |                        |       |                     |        |                |           |
| 596-00033                    | TAG13T4-DTH      | TAG13T4  | V                 | .75"      | (19.05) | .25"       | (6.35)  | .35"                 | 8.89  | .75"                   | 19.05 | 3.35"               | 85.09  | 4              | 10000     |
| 596-00034                    | TAG16T3-DTH      | TAG16T3  | Y                 | .9"       | (22.86) | .25"       | (6.35)  | .35"                 | 8.89  | .9"                    | 22.86 | 3.35"               | 85.09  | 3              | 10000     |
| 596-00035                    | TAG15T3-DTH      | TAG15T3  | E                 | 1.0"      | (25.4)  | .5"        | (12.7)  | .6"                  | 15.24 | 1.0"                   | 25.4  | 3.35"               | 85.09  | 3              | 10000     |
| 596-00036                    | TAG27T2-DTH      | TAG27T2  | J                 | 1.5"      | (38.11) | .75"       | (19.05) | .875"                | 22.2  | 1.5"                   | 38.11 | 2.20"               | 55.83  | 2              | 10000     |
| 596-00037                    | TAG99T1-DTH      | TAG99T1  | DD                | 2.0"      | (50.8)  | .25"       | (6.35)  | .375"                | 9.52  | 2.0"                   | 50.8  | 2.2"                | 55.8   | 1              | 2500      |
| 596-00038                    | TAG73T1-DTH      | TAG73T1  | AA                | 2.0"      | (50.8)  | 1.0"       | (25.4)  | 1.125"               | 28.57 | 1.0"                   | 25.4  | 2.20"               | 55.83  | 1              | 3000      |
| 596-00039                    | TAG33T1-DTH      | TAG33T1  | EE                | 3.0"      | (76.2)  | 2.0"       | (50.8)  | 2.125"               | 53.97 | 2.0"                   | 50.8  | 3.1"                | 78.74  | 1              | 1000      |
| PAP - Non-Adhesive Cardstock |                  |          |                   |           |         |            |         |                      |       |                        |       |                     |        |                |           |
| 596-00017                    | TAG74T2-PAP      | TAG74T2  | FF                | 1.75"     | (44.45) | .375"      | (9.53)  | .562"                | 14.2  | 1.75"                  | 44.45 | 3.5"                | 88.9   | 2              | 1000      |
| 596-00025                    | TAG82T2-PAP      | TAG82T2  | GG                | 2.0"      | (50.8)  | .396"      | (10.05) | .562"                | 14.2  | 2.0"                   | 50.8  | 4.05"               | 102.0  | 2              | 1000      |
| 596-00024                    | TAG85T1-PAP      | TAG85T1  | HH                | 3.0"      | (76.2)  | .50"       | (12.7)  | .60"                 | 15.24 | 3.0"                   | 76.2  | 3.2"                | 8.28   | 1              | 5000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

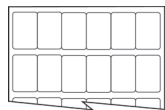
\* Clear    \*\* Not recommended for TT1210 printer    \*\*\* For use with DTH ribbons only!

Thermal Transfer Labels *continued*

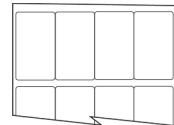
(Not shown to scale)



TYHCT-250

**A**

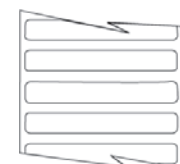
TAG21T6-250

**B**TAG11T4-250,  
TAG11T4-822,  
TAG11T4-822C**C**

TAG28T4-250

**D**TAG15T3-DTH,  
TAG15T3-795,  
TAG15T3-822,  
TAG15T3-822C,  
TAG15T3-250**E**

TAG35T2-250

**F**

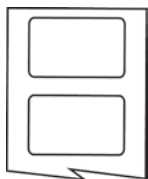
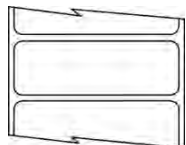
TAG96T1-336

**G**

TAG69T1-336

**H**

TAG68T1-336

**I**TAG27T1-822,  
TAG27T1-795,  
TAG27T1-822C,  
TAG27T2-DTH**J**TAG75T1822  
TAG75T1-795**K**

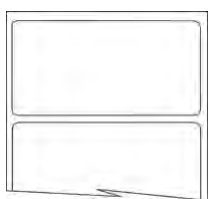
TAG76T1-795

**L**TAG72T1-795,  
TAG72T1-822**M**

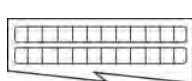
TAG78T1-795

**N**

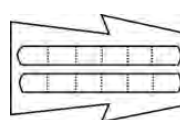
TAG80T1-795

**O**

TAG79T1-795

**P**

TAG70T12-822

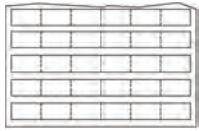
**Q**TAGPP1T6-822,  
TAGPP1T6-822C,  
TAGPP1T6-82210M,  
TAGPP1T6-822C10M**R**

TAG84T3-822

**S**

Thermal Transfer Labels *continued*

(Not shown to scale)



*TAGPP2T6-822,  
TAGPP2T6-822C*  
**T**



*TAGPP3T4-822,  
TAGPP3T4-822C*  
**U**



*TAG13T4-822,  
TAG13T4-900,  
TAG13T4-DTH*  
**V**



*TAG83T1-822*  
**W**



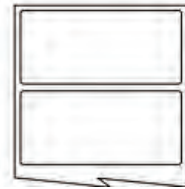
*TAG81T8-822*  
**X**



*TAG16T3-DTH,  
TAG16T3-822,  
TAG16T3-900*  
**Y**



*TAG17T2-822*  
**Z**



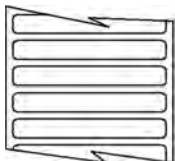
*TAG73T1-822,  
TAG73T1-DTH,  
TAG73T1-795*  
**AA**



*TAG71T5-822*  
**BB**



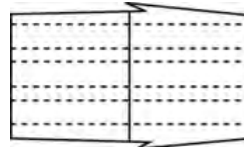
*TAG82T2-822*  
**CC**



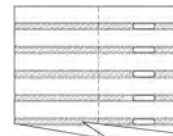
*TAG99T1-DTH*  
**DD**



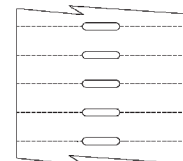
*TAG33T1-DTH*  
**EE**



*TAG74T2-PAP*  
**FF**



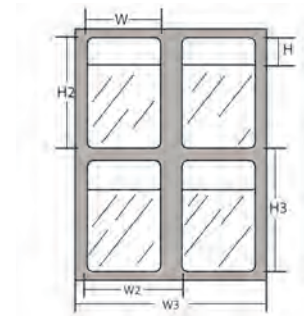
*TAG82T2-PAP*  
**GG**



*TAG85T1-PAP*  
**HH**

## Thermal Transfer Self-Laminating Labels

HellermannTyton thermal transfer labels provide the best printing quality. These labels are particularly suitable for permanent marking on the flat surfaces of production machines and equipment. The technology used in the printing of thermal transfer labels produces the most accurate barcodes of all existing printing technologies. The large selection of labels makes it easy to find the correct label for almost any application. Thermal transfer labels are designed for high heat and are resistant to chemicals as well as petroleum based oils and solvents.



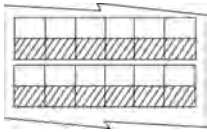
### Product Selection

| Article No.          | Part No.             | Type    | Drawing Reference<br>(page 171) | Width (W)<br>In. (mm) | Height of Printable Area (H)<br>In. (mm) | Height of Label (H2)<br>In. (mm) | Vertical Repeat (H3)<br>In. (mm) | Horizontal Repeat (W2)<br>In. (mm) | Width of Liner (W3)<br>In. (mm) | Labels per Row | Pkg. Qty. |
|----------------------|----------------------|---------|---------------------------------|-----------------------|------------------------------------------|----------------------------------|----------------------------------|------------------------------------|---------------------------------|----------------|-----------|
| <b>100B Material</b> |                      |         |                                 |                       |                                          |                                  |                                  |                                    |                                 |                |           |
| 596-00009            | <b>TAG26T6-100B</b>  | TAG26T6 | A                               | .5"<br>(12.7)         | .375"<br>(9.52)                          | .75"<br>(19.05)                  | 1.0"<br>(25.4)                   | .5"<br>(12.7)                      | 3.35"<br>(85.09)                | 6              | 10000     |
| 596-00010            | <b>TAG2T5-100B</b>   | TAG2T5  | B                               | .5"<br>(12.7)         | .5"<br>(12.7)                            | 1.43"<br>(36.5)                  | 1.62"<br>(41.28)                 | .66"<br>(16.81)                    | 3.35"<br>(85.09)                | 5              | 10000     |
| 596-00014            | <b>TAG51T3-100B</b>  | TAG51T3 | C                               | 1.0"<br>(25.4)        | .35"<br>(8.8)                            | .75"<br>(19.05)                  | .937"<br>(23.7)                  | 1.075"<br>(27.3)                   | 3.35"<br>(85.09)                | 3              | 10000     |
| 596-00006            | <b>TAG22T2-100B</b>  | TAG22T2 | D                               | 1.0"<br>(25.4)        | .5"<br>(12.7)                            | 1.43"<br>(36.5)                  | 1.62"<br>(41.28)                 | 1.075"<br>(27.3)                   | 2.25"<br>(57.1)                 | 2              | 5000      |
| 596-00007            | <b>TAG22T3-100B</b>  | TAG22T3 | E                               | 1.0"<br>(25.4)        | .5"<br>(12.7)                            | 1.43"<br>(36.5)                  | 1.62"<br>(41.28)                 | 1.075"<br>(27.3)                   | 3.35"<br>(85.09)                | 3              | 5000      |
| 596-00027            | <b>TAG9T3-100B</b>   | TAG9T3  | F                               | 1.0"<br>(25.4)        | .75"<br>(19.05)                          | 2.25"<br>(57.1)                  | 2.5"<br>(63.5)                   | 1.0"<br>(25.4)                     | 3.35"<br>(85.09)                | 3              | 5000      |
| 596-00013            | <b>TAG3T3-100B</b>   | TAG3T3  | G                               | 1.0"<br>(25.4)        | 1.0"<br>(25.4)                           | 3.75"<br>(95.25)                 | 4.0"<br>(101.6)                  | 1.075"<br>(27.3)                   | 3.35"<br>(85.09)                | 3              | 3000      |
| 596-00011            | <b>TAG38T4-100B*</b> | TAG38T4 | H                               | 1.0"<br>(25.4)        | 1.5"<br>(38.1)                           | 7.347"<br>(188.89)               | 7.75"<br>(196.80)                | 1.0"<br>(25.4)                     | 4.10"<br>(104.14)               | 4              | 1000      |
| 596-00045            | <b>TAG53T2-100B</b>  | TAG53T2 | I                               | 1.5"<br>(38.1)        | .7"<br>(17.78)                           | 1.437"<br>(36.49)                | 1.62"<br>(41.28)                 | 1.5"<br>(38.1)                     | 3.35"<br>(89.05)                | 2              | 2500      |
| 596-00005            | <b>TAG1T1-100B</b>   | TAG1T1  | J                               | 1.9"<br>(48.2)        | .75"<br>(19.05)                          | 3.12"<br>(79.2)                  | 3.42"<br>(86.8)                  | 1.9"<br>(48.2)                     | 3.875"<br>(98.42)               | 2              | 2500      |
| 596-00008            | <b>TAG24T1-100B</b>  | TAG24T1 | K                               | 2.0"<br>(50.8)        | .5"<br>(12.7)                            | 1.437"<br>(36.49)                | 1.68"<br>(42.6)                  | 2.0"<br>(50.8)                     | 2.2"<br>(55.9)                  | 1              | 1000      |
| 596-00002            | <b>TAG10T2-100B</b>  | TAG10T2 | L                               | 2.0"<br>(50.8)        | .75"<br>(19.05)                          | 2.25"<br>(57.1)                  | 2.5"<br>(63.5)                   | 2.0"<br>(50.8)                     | 3.875"<br>(98.42)               | 2              | 2500      |
| 596-00021            | <b>TAG7T1-100B*</b>  | TAG7T1  | M                               | 2.0"<br>(50.8)        | 1.5"<br>(38.1)                           | 7.347"<br>(188.89)               | 7.75"<br>(196.80)                | 2.0"<br>(50.8)                     | 4.10"<br>(104.14)               | 2              | 1000      |
| 596-00016            | <b>TAG6T1-100B</b>   | TAG6T1  | N                               | 2.0"<br>(50.8)        | 1.5"<br>(38.1)                           | 3.75"<br>(95.25)                 | 4.0"<br>(101.6)                  | 2.0"<br>(50.8)                     | 2.20"<br>(68.58)                | 1              | 1000      |

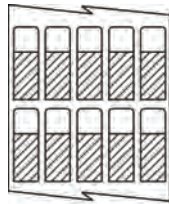
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Thermal Transfer Self-Laminating Labels *continued*

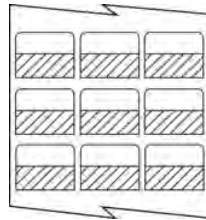
(Not shown to scale)



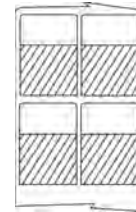
TAG26T6-100B

**A**

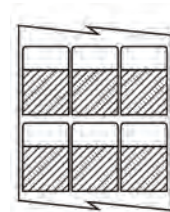
TAG2T5-100B

**B**

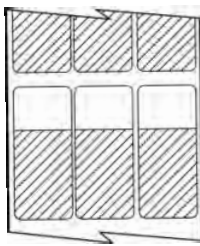
TAG51T3-100B

**C**

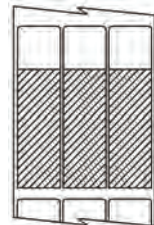
TAG22T2-100B

**D**

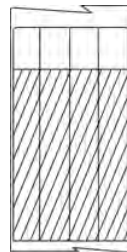
TAG22T3-100B

**E**

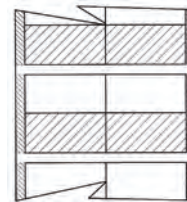
TAG9T3-100B

**F**

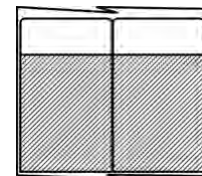
TAG3T3-100B

**G**

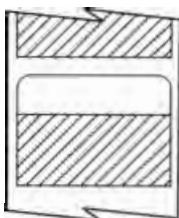
TAG38T4-100B

**H**

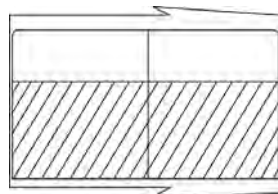
TAG53T2-100B

**I**

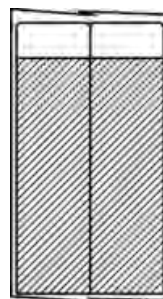
TAG1T1-100B

**J**

TAG24T1-100B

**K**

TAG10T2-100B

**L**

TAG7T1-100B

**M**

TAG6T1-100B

**N**

## Laser Tag Label Materials

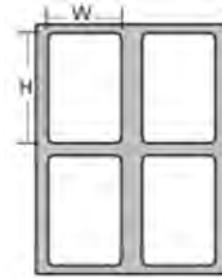
Laser Tags are durable, laser printable labels for applications requiring clear, crisp legibility. The labels come on 8.5" x 11" sheets and are printable using HellermannTyton TagPrint™ Pro software and a standard laser printer. Specially designed adhesives and materials are used for the Laser Tags, ensuring that the labels will not curl, change color, or jam laser printers. Laser Tags are available in die-cut on 8-1/2" x 11" polyester sheets.



| Label Material             | 105 Material                                        | 788 Material                                                                                           | 788C Material                                                                                        | 789 Material                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Material Name</b>       | Self-Laminating Laser Polyester                                                                                                      | White Laser Polyester                                                                                                                                                                   | Clear Laser Polyester                                                                                                                                                                   | White Laser Polyester                                                                                                                                                                  |
| <b>Printer</b>             | Laser                                                                                                                                | Laser                                                                                                                                                                                   | Laser                                                                                                                                                                                   | Laser                                                                                                                                                                                  |
| <b>Topcoat</b>             | Specially formulated for superb ink anchorage                                                                                        | Specially formulated for superb toner anchorage for most laser printers                                                                                                                 | Specially formulated for superb toner anchorage for most laser printers                                                                                                                 | Specially formulated for superb ink anchorage                                                                                                                                          |
| <b>Liner</b>               | 82#                                                                                                                                  | 68#                                                                                                                                                                                     | 68#                                                                                                                                                                                     | 90#                                                                                                                                                                                    |
| <b>Temperature Range</b>   | -40°F to +300°F<br>(-40°C to +149°C)                                                                                                 | -40°F to +194°F<br>(-40°C to +92°C)                                                                                                                                                     | -40°F to +194°F<br>(-40°C to +92°C)                                                                                                                                                     | -40°F to +300°F<br>(-40°C to +149°C)                                                                                                                                                   |
| <b>Adhesive Type</b>       | Permanent pressure-sensitive acrylic                                                                                                 | Permanent pressure-sensitive acrylic                                                                                                                                                    | Permanent pressure-sensitive acrylic                                                                                                                                                    | Permanent pressure-sensitive acrylic                                                                                                                                                   |
| <b>Application</b>         | Excellent for on-the-job wire marking. Ideal for flat ribbon cable, machine tool, and underground wiring. Smallest diameter is 0.15" | Excellent for general purpose component or panel marking. Bar code printable.                                                                                                           | Excellent for general purpose component or panel marking. Bar code printable.                                                                                                           | For flat labeling applications that require solvent or high temperature resistance. Bar code printable. Can be used to mark electronics and printed circuit boards.                    |
| <b>Certifications</b>      |                                                                                                                                      |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                   |
| <b>Outdoor Durability</b>  | N/A                                                                                                                                  | 1 year                                                                                                                                                                                  | 1 year                                                                                                                                                                                  | 2 years                                                                                                                                                                                |
| <b>Chemical Resistance</b> | Good for most petroleum based solvents and lower aliphatic alcohols. Not good for most esters and ketones. Water resistant.          | Applied labels will be resistant to water, mild acids, alkalis, salts and most petroleum-based solvents, oils, greases, aliphatic solvents such as kerosene, keptane and reference fuel | Applied labels will be resistant to water, mild acids, alkalis, salts and most petroleum-based solvents, oils, greases, aliphatic solvents such as kerosene, keptane and reference fuel | Applied labels will be resistant to water, mild acids, alkalis, salts and most petroleum based solvents, oils, greases, aliphatic solvent such as kerosene, keptane and reference fuel |

## Laser Tag Labels

HellermannTyton's Laser Tag labels are used for component marking.

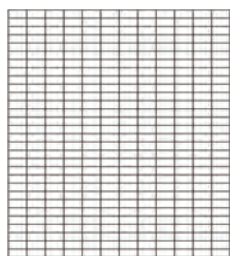
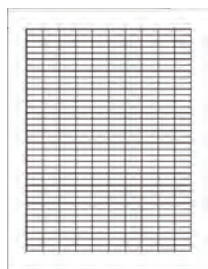
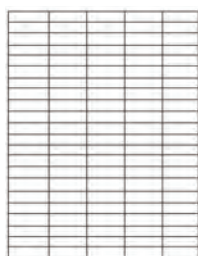


| Product Selection  |             |          |                   |           |          |            |          |                |                   |                  |           |
|--------------------|-------------|----------|-------------------|-----------|----------|------------|----------|----------------|-------------------|------------------|-----------|
| Article No.        | Part No.    | Type     | Drawing Reference | Width (W) |          | Height (H) |          | Labels per Row | Labels per Column | Labels per Sheet | Pkg. Qty. |
|                    |             |          | (pages 174-175)   | In.       | (mm.)    | In.        | (mm.)    |                |                   |                  |           |
| 788 Material       |             |          |                   |           |          |            |          |                |                   |                  |           |
| 594-01788          | TAGPP1-788  | TAGPP1   | A                 | 1.5"      | (15.87)  | .37"       | (7.87)   | 12             | 30                | 360              | 1000      |
| 594-00001          | TAGPP2-788  | TAGPP2   | B                 | .66"      | (16.7)   | .33"       | (8.38)   | 12             | 30                | 360              | 1000      |
| 594-62788          | TAG62L-788  | TAG62L   | C                 | 1.50"     | (31.75)  | .37"       | (9.52)   | 5              | 25                | 125              | 1000      |
| 594-61788          | TAG61L-788  | TAG61L   | D                 | 2.62"     | (66.67)  | 1.0"       | (25.4)   | 3              | 10                | 30               | 7500      |
| 594-60788          | TAG60L-788  | TAG60L   | E                 | 2.83"     | (71.88)  | 1.5"       | (38.1)   | 3              | 7                 | 21               | 5250      |
| 594-59788          | TAG59L-788  | TAG59L   | F                 | 4.0"      | (101.60) | 1.5"       | (38.1)   | 2              | 7                 | 14               | 3500      |
| 594-58788          | TAG58L-788  | TAG58L   | G                 | 4.0"      | (101.60) | 2.0"       | (50.8)   | 2              | 5                 | 10               | 2500      |
| 594-56788          | TAG56L-788  | TAG56L   | H                 | 4.0"      | (101.60) | 3.33"      | (84.5)   | 2              | 3                 | 6                | 1500      |
| 594-57788          | TAG57L-788  | TAG57L   | I                 | 4.25"     | (107.90) | 2.75"      | (69.8)   | 2              | 4                 | 8                | 2000      |
| 594-55788          | TAG55L-788  | TAG55L   | J                 | 4.25"     | (107.90) | 5.5"       | (139.70) | 2              | 2                 | 4                | 1000      |
| 594-54788          | TAG54L-788  | TAG54L   | K                 | 8.5"      | (215.90) | 5.5"       | (139.70) | 1              | 2                 | 2                | 500       |
| 594-53788          | TAG53L-788  | TAG53L   | L                 | 8.5"      | (215.90) | 10.81"     | (274.6)  | 1              | 1                 | 1                | 250       |
| 788C Material      |             |          |                   |           |          |            |          |                |                   |                  |           |
| 594-02788          | TAGPP1-788C | TAGPP1   | A                 | .625"     | (15.87)  | .333"      | (7.87)   | 12             | 30                | 360              | 1000      |
| 594-00002          | TAGPP2-788C | TAGPP2   | B                 | .66"      | (16.7)   | .33"       | (8.38)   | 12             | 30                | 360              | 1000      |
| 789 Material       |             |          |                   |           |          |            |          |                |                   |                  |           |
| 594-11789          | TAG11L-789  | TAG11L   | M                 | .65"      | (16.50)  | .20"       | (5.08)   | 10             | 48                | 480              | 5000      |
| 594-13789          | TAG13L-789  | TAG13L   | N                 | .75"      | (19.00)  | .25"       | (6.35)   | 8              | 39                | 312              | 5000      |
| 594-14789          | TAG14L-789  | TAG14L   | O                 | 1.0"      | (25.40)  | .375"      | (9.52)   | 7              | 25                | 175              | 5000      |
| 594-15789          | TAG15L-789  | TAG15L   | P                 | 1.0"      | (25.40)  | .5"        | (12.70)  | 7              | 19                | 133              | 5000      |
| 594-96789          | TAG96L-789  | TAG96L   | Q                 | 1.875"    | (47.62)  | .25"       | (6.35)   | 4              | 36                | 144              | 1000      |
| 594-69789          | TAG69L-789  | TAG69L   | R                 | 2.0"      | (50.8)   | .275"      | (6.98)   | 4              | 35                | 140              | 5000      |
| 594-67789          | TAG67L-789  | TAG67L   | S                 | 2.87"     | (73)     | .375"      | (9.52)   | 2              | 25                | 50               | 1000      |
| 594-66789          | TAG66L-789  | TAG66L   | T                 | 3.59"     | (91.4)   | .375"      | (9.52)   | 2              | 25                | 50               | 1000      |
| 594-68789          | TAG68L-789  | TAG68L   | U                 | 3.8"      | (96.5)   | .275"      | (6.98)   | 2              | 35                | 70               | 2500      |
| 594-45789          | TAG45L-789  | TAG45L   | V                 | 4.0"      | (101.60) | .80"       | (20.32)  | 2              | 12                | 24               | 5000      |
| Cardstock Material |             |          |                   |           |          |            |          |                |                   |                  |           |
| 593-00001          | TAGPHONE    | TAGPHONE | W                 | 1.75"     | (44.45)  | .375"      | (9.52)   | 4              | 21                | 84               | 1000      |

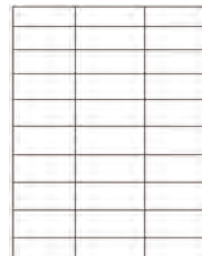
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Laser Labels *continued*

(Not shown to scale)

TAGPP1-788,  
TAGPP1-788C**A**TAGPP2-788,  
TAGPP2-788C**B**

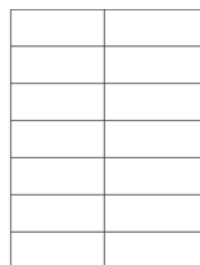
TAG62L-788

**C**

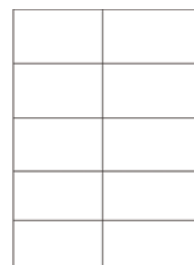
TAG61L-788

**D**

TAG60L-788

**E**

TAG59L-799

**F**

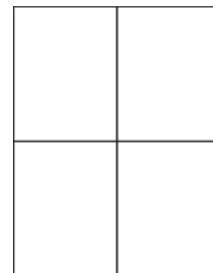
TAG58L-788

**G**

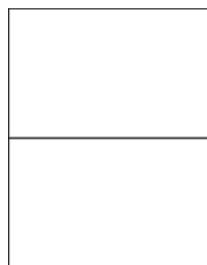
TAG56L-788

**H**

TAG57L-788

**I**

TAG55L-788

**J**

TAG54L-788

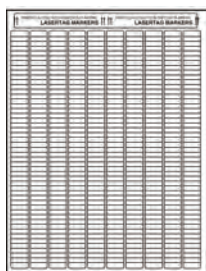
**K**

TAG53L-788

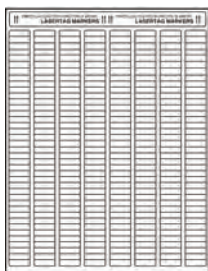
**L**

## Laser Labels *continued*

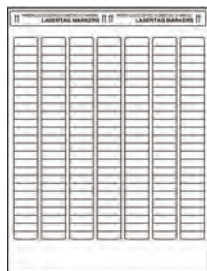
(Not shown to scale)



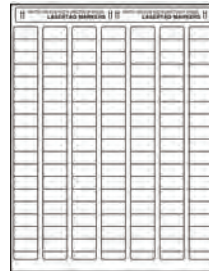
TAG11L-789  
**M**



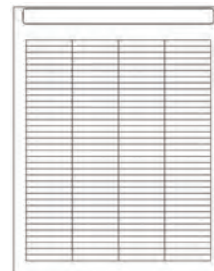
TAG13L-789  
**N**



TAG14L-789  
**O**



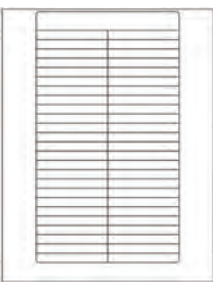
TAG15L-789  
**P**



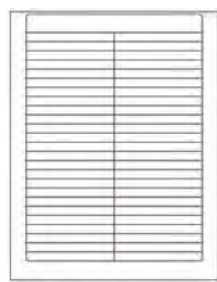
TAG96L-789  
**Q**



TAG69L-789  
**R**



TAG67L-789  
**S**



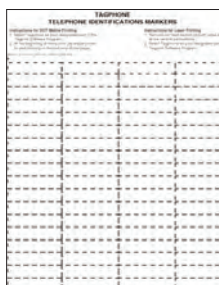
TAG66L-789  
**T**



TAG68L-789  
**U**



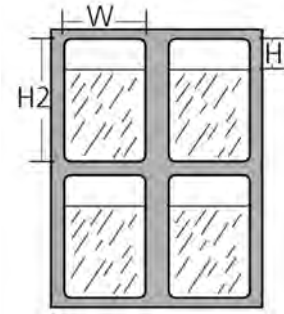
TAG45L-789  
**V**



TAGPHONE  
**W**

## Self-Laminating Laser Tags

HellermannTyton self-laminating Laser Tags are durable, yet conformable to compound surfaces like wires and cables. These labels can be wrapped onto wires without fear of flagging or popping off the wires. The clear overlap protects printed information. Self-laminating Laser Tags are made of 1.0 MIL polyester (105 material).

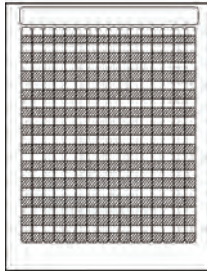


| Product Selection |            |        |                       |           |         |                                 |         |                         |         |                      |                         |                        |           |
|-------------------|------------|--------|-----------------------|-----------|---------|---------------------------------|---------|-------------------------|---------|----------------------|-------------------------|------------------------|-----------|
| Article No.       | Part No.   | Type   | Drawing<br>References | Width (W) |         | Height of<br>Printable Area (H) |         | Height of Label<br>(H2) |         | Labels<br>per<br>Row | Labels<br>per<br>Column | Labels<br>per<br>Sheet | Pkg. Qty. |
|                   |            |        | (page 177)            | In.       | (mm.)   | In.                             | (mm.)   | In.                     | (mm.)   |                      |                         |                        |           |
|                   |            |        |                       |           |         |                                 |         |                         |         |                      |                         |                        |           |
| 105 Material      |            |        |                       |           |         |                                 |         |                         |         |                      |                         |                        |           |
| 594-26105         | TAG26L-105 | TAG26L | A                     | .5"       | (12.70) | .375"                           | (9.5)   | .75"                    | (19.0)  | 16                   | 12                      | 156                    | 5000      |
| 594-02105         | TAG2L-105  | TAG2L  | B                     | .5"       | (12.70) | .5"                             | (12.7)  | 1.43"                   | (36.5)  | 16                   | 7                       | 112                    | 5000      |
| 594-05105         | TAG5L-105  | TAG5L  | C                     | .8"       | (20.30) | .5"                             | (12.7)  | 1.43"                   | (36.4)  | 8                    | 7                       | 56                     | 5000      |
| 594-65105         | TAG65L-105 | TAG65L | D                     | .81"      | (20.70) | .81"                            | (20.7)  | 2.13"                   | (53.9)  | 9                    | 4                       | 36                     | 1000      |
| 594-51105         | TAG51L-105 | TAG51L | E                     | 1.0"      | (25.40) | .35"                            | (8.89)  | .75"                    | (19.0)  | 8                    | 12                      | 84                     | 5000      |
| 594-49105         | TAG49L-105 | TAG49L | F                     | 1.0"      | (25.40) | .35"                            | (8.8)   | 1.0"                    | (25.5)  | 8                    | 10                      | 80                     | 2500      |
| 594-63105         | TAG63L-105 | TAG63L | G                     | 1.0"      | (25.40) | .5"                             | (12.7)  | 1.33"                   | (33.78) | 8                    | 7                       | 49                     | 2500      |
| 594-09105         | TAG9L-105  | TAG9L  | H                     | 1.0"      | (25.40) | .75"                            | (19.00) | 2.25"                   | (57.1)  | 7                    | 4                       | 28                     | 1000      |
| 594-50105         | TAG50L-105 | TAG50L | I                     | 1.0"      | (25.40) | 1.0"                            | (25.4)  | 3.16"                   | (80.4)  | 8                    | 3                       | 21                     | 1000      |
| 594-64105         | TAG64L-105 | TAG64L | J                     | 1.17"     | (29.6)  | .83"                            | (21.08) | 3.33"                   | (84.6)  | 6                    | 3                       | 18                     | 1000      |
| 594-01105         | TAG1L-105  | TAG1L  | K                     | 1.9"      | (48.20) | .75"                            | (19.0)  | 3.25"                   | (82.5)  | 4                    | 3                       | 12                     | 1000      |
| 594-52105         | TAG52L-105 | TAG52L | L                     | 2.0"      | (50.80) | .47"                            | (33.70) | 1.33"                   | (33.7)  | 3                    | 7                       | 21                     | 1000      |
| 594-10105         | TAG10L-105 | TAG10L | M                     | 2.0"      | (50.8)  | .75"                            | (19.1)  | 2.25"                   | (57.2)  | 4                    | 4                       | 16                     | 1000      |

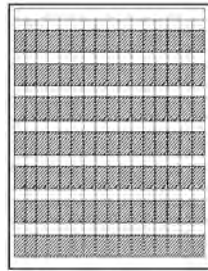
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Self-Laminating Laser Tags *continued*

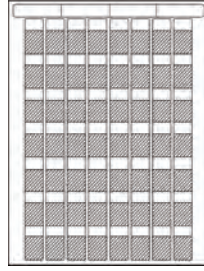
(Not shown to scale)



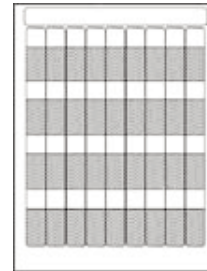
TAG26L-105

**A**

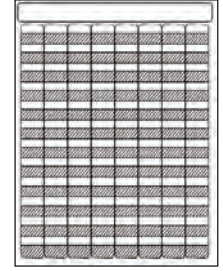
TAG2L-105

**B**

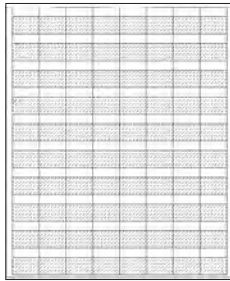
TAG5L-105

**C**

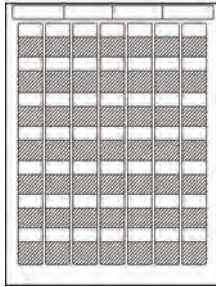
TAG65L-105

**D**

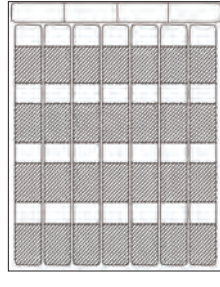
TAG51L-105

**E**

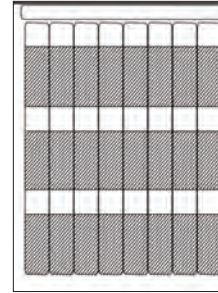
TAG49L-105

**F**

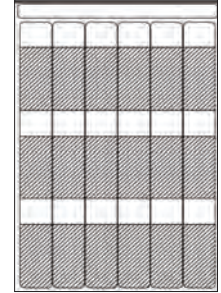
TAG63L-105

**G**

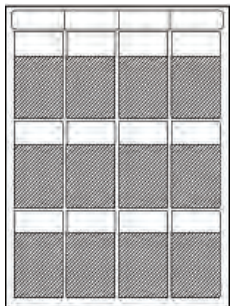
TAG9L-105

**H**

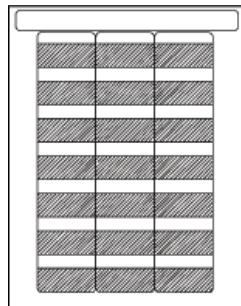
TAG50L-105

**I**

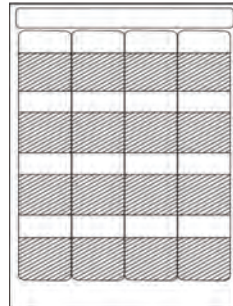
TAG64L-105

**J**

TAG1L-105

**K**

TAG52L-105

**L**

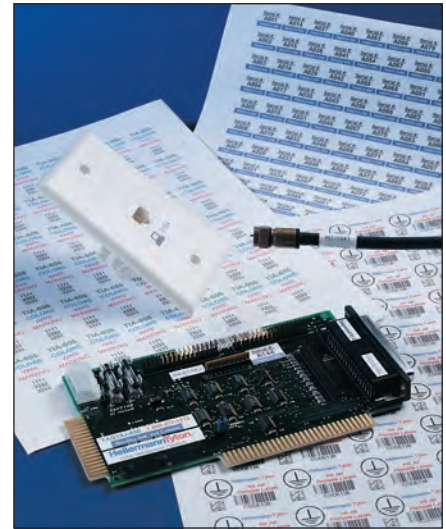
TAG10L-105

**M**

## Ink Jet Label Materials

HellermannTyton offers a series of technologically advanced labels for use on standard ink jet printers. The labels come on 8.5" x 11" sheets and are printable using HellermannTyton's TagPrint™ Pro software.

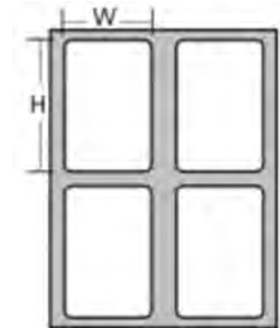
A wide range of materials and sizes is available for wire and component marking. When used with pigment based inks, HellermannTyton ink jet labels offer superior non-smear marks that are chemical and solvent resistant. Colors can be printed when used on a color ink jet printer. Ink jet labels are available in polyester or paper.



| Label Material      | 108 Material <span>RoHS</span>                                                | 450 Material <span>RoHS</span>                                                                                                       | 994 Material <span>RoHS</span>                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Material Name       | Paper                                                                         | White Polyester                                                                                                                      | Clear Self-Laminating Polyester                                                                                                                |
| Printer             | Ink Jet                                                                       | Ink Jet                                                                                                                              | Ink Jet                                                                                                                                        |
| Topcoat             | Uncoated Paper                                                                | Specially formulated for superb toner anchorage and fast-drying printing                                                             | Specially formulated for superb anchorage for ink jet printing                                                                                 |
| Liner               | 50#                                                                           | 50#                                                                                                                                  | 82#                                                                                                                                            |
| Temperature Range   | -20°F to +200°F (-20°C to +93°C)                                              | -40°F to +300°F (-40°C to +149°C)                                                                                                    | -40°F to +300°F (-40°C to +149°C)                                                                                                              |
| Adhesive Type       | Pressure sensitive acrylic                                                    | Pressure sensitive acrylic                                                                                                           | Permanent pressure sensitive acrylic                                                                                                           |
| Application         | General purpose flat label applications where the environment is not critical | Flat surface marking using ink jet labels                                                                                            | Excellent for on-the-job wire marking. Ideal for flat ribbon cable, machine tool and underground wiring. For use in ink jet or laser printers. |
| Chemical Resistance | General purpose paper permanent marking                                       | Excellent chemical resistance to solvents, and abrasion when using pigment based ink. Moderate resistance when using dye-based inks. | Good for most petroleum-based solvents and lower aliphatic alcohols. Not good for most esters and ketones. Water resistant.                    |

## Ink Jet Labels

HellermannTyton's inkjet labels are used for component marking.

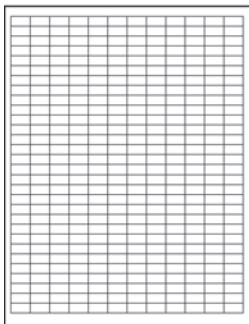


| Product Selection  |             |         |                   |           |         |            |         |                |                   |                  |           |
|--------------------|-------------|---------|-------------------|-----------|---------|------------|---------|----------------|-------------------|------------------|-----------|
| Article No.        | Part No.    | Type    | Drawing Reference | Width (W) |         | Height (H) |         | Labels per Row | Labels per Column | Labels per Sheet | Pkg. Qty. |
|                    |             |         | (page 180)        | In.       | (mm.)   | In.        | (mm.)   |                |                   |                  |           |
| 108 Material       |             |         |                   |           |         |            |         |                |                   |                  |           |
| 593-01108          | TAGPP1J-108 | TAGPP1J | A                 | .625"     | (15.87) | .31"       | (7.87)  | 12             | 30                | 360              | 1000      |
| 593-65108          | TAG65J-108  | TAG65J  | B                 | 1.0"      | (25.4)  | 1.50"      | (31.75) | 12             | 10                | 50               | 12500     |
| 593-59108          | TAG59J-108  | TAG59J  | C                 | 4.0"      | (101.6) | 1.5"       | (38.1)  | 2              | 7                 | 14               | 3500      |
| 593-57108          | TAG57J-108  | TAG57J  | D                 | 4.25"     | (107.9) | 2.75"      | (69.80) | 2              | 4                 | 8                | 2000      |
| 593-56108          | TAG56J-108  | TAG56J  | E                 | 3.33"     | (84.5)  | 4.0"       | (101.6) | 2              | 3                 | 6                | 1500      |
| 450 Material       |             |         |                   |           |         |            |         |                |                   |                  |           |
| 593-11450          | TAG11J-450  | TAG11J  | F                 | .20"      | (5.08)  | .65"       | (16.05) | 21             | 12                | 252              | 5000      |
| 593-13450          | TAG13J-450  | TAG13J  | G                 | .25"      | (6.35)  | .75"       | (19.00) | 26             | 12                | 312              | 5000      |
| 593-14450          | TAG14J-450  | TAG14J  | H                 | .375"     | (9.52)  | 1.0"       | (25.4)  | 16             | 9                 | 144              | 5000      |
| 593-19450          | TAG19J-450  | TAG19J  | I                 | .375"     | (9.52)  | 2.0"       | (50.8)  | 15             | 4                 | 60               | 1000      |
| 593-15450          | TAG15J-450  | TAG15J  | J                 | .5"       | (12.7)  | 1.0"       | (25.4)  | 13             | 9                 | 117              | 5000      |
| 593-21450          | TAG21J-450  | TAG21J  | K                 | .5"       | (12.7)  | .75"       | (19.00) | 13             | 12                | 156              | 5000      |
| 593-28450          | TAG28J-450  | TAG28J  | L                 | .80"      | (20.3)  | 1.437"     | (36.49) | 8              | 6                 | 48               | 1000      |
| Cardstock Material |             |         |                   |           |         |            |         |                |                   |                  |           |
| 593-00001          | TAGPHONE    | TAGPHON | M                 | 1.75"     | (44.45) | .375"      | (9.52)  | 4              | 21                | 84               | 1000      |

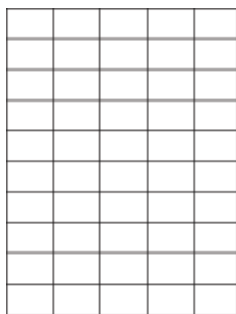
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Ink Jet Labels *continued*

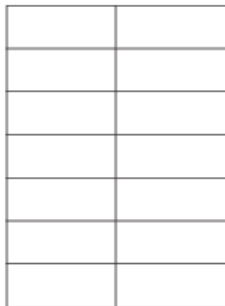
(Not shown to scale)



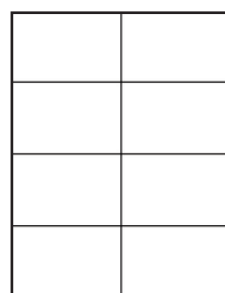
TAGPP1J-108

**A**

TAG65J-108

**B**

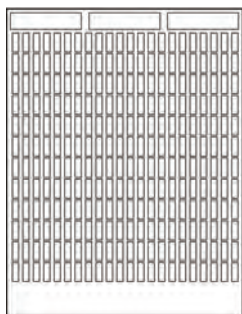
TAG59J-108

**C**

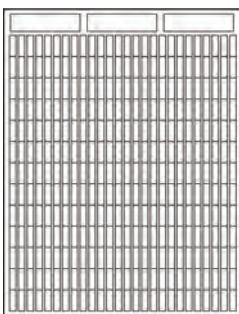
TAG57L-108

**D**

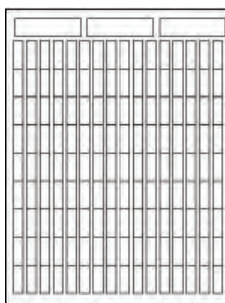
TAG56J-108

**E**

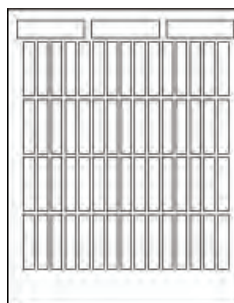
TAG11J-450

**F**

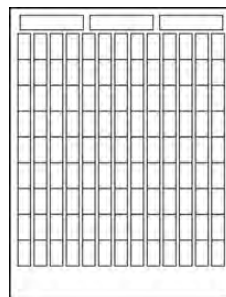
TAG13J-450

**G**

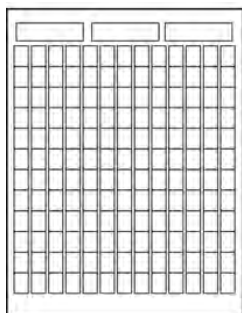
TAG14J-450

**H**

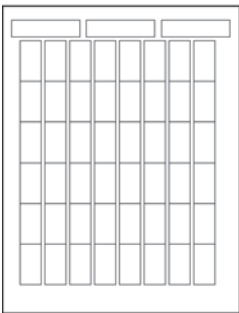
TAG19J-450

**I**

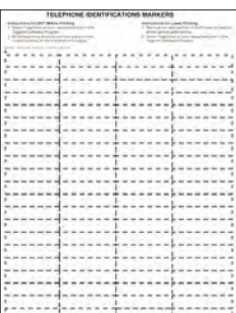
TAG15J-450

**J**

TAG21J-450

**K**

TAG28J-450

**L**

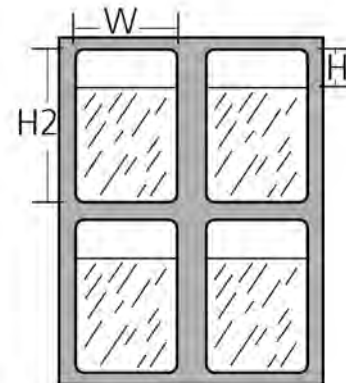
TAGPHONE

**M**

## Ink Jet Self-Laminating Labels

HellermannTyton's ink jet self-laminating labels are smear resistant, allowing them to be handled immediately. The labels are made of a heat-resistant 1mm polyester film with a strong acrylic-based adhesive. The printable area is a special ink-receptive film that absorbs the ink as it is printed on an ink jet printer. This same material, 994 clear polyester, can also be used in any standard laser printer.

Each sheet is smaller than the standard letter size (8.5"x11"). Less waste results from the smaller sheet size because the user can print smaller quantities at one time. HellermannTyton's ink jet self-laminating labels are also more convenient to store.



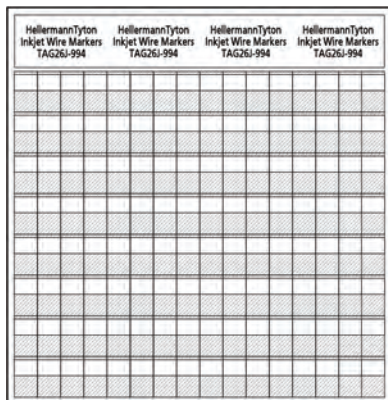
### Product Selection

|              |            |       | Drawing<br>References | Width (W)    |              | Height of Printable<br>Area (H) |               | Height of Label (H2) |    | Labels<br>per<br>Row | Labels<br>per<br>Column | Labels<br>per<br>Sheet | Pkg. Qty. |
|--------------|------------|-------|-----------------------|--------------|--------------|---------------------------------|---------------|----------------------|----|----------------------|-------------------------|------------------------|-----------|
| Article No.  | Part No.   | Type  |                       | (page 182)   | In. (mm.)    | In. (mm.)                       | In. (mm.)     | In. (mm.)            |    |                      |                         |                        |           |
| 994 Material |            |       |                       |              |              |                                 |               |                      |    |                      |                         |                        |           |
| 593-26994    | TAG26J-994 | TAG26 | A                     | .5" (12.7)   | .35" (8.89)  | .75" (19.05)                    | .75" (19.05)  | .75" (19.05)         | 16 | 8                    | 128                     | 2500                   |           |
| 593-05994    | TAG5J-994  | TAG5J | B                     | .8" (20.3)   | .5" (12.7)   | 1.43" (36.32)                   | 1.43" (36.32) | 1.43" (36.32)        | 10 | 4                    | 40                      | 1000                   |           |
| 593-51994    | TAG51J-994 | TAG51 | C                     | 1.0" (25.4)  | .35" (8.89)  | .75" (19.05)                    | .75" (19.05)  | .75" (19.05)         | 8  | 8                    | 64                      | 1000                   |           |
| 593-22994    | TAG22J-994 | TAG22 | D                     | 1.0" (25.4)  | .5" (12.7)   | 1.43" (36.32)                   | 1.43" (36.32) | 1.43" (36.32)        | 8  | 4                    | 32                      | 1000                   |           |
| 593-09994    | TAG9J-994  | TAG9J | E                     | 1.0" (25.4)  | .75" (19.05) | 2.25" (57.15)                   | 2.25" (57.15) | 2.25" (57.15)        | 8  | 3                    | 24                      | 1000                   |           |
| 593-64994    | TAG64J-994 | TAG64 | F                     | 1.16" (29.6) | .86" (21.8)  | 3.25" (82.6)                    | 3.25" (82.6)  | 3.25" (82.6)         | 7  | 2                    | 14                      | 1000                   |           |

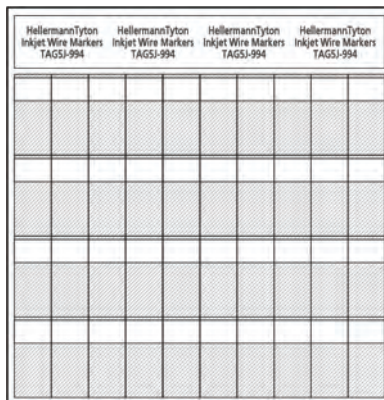
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Ink Jet Self-Laminating Labels *continued*

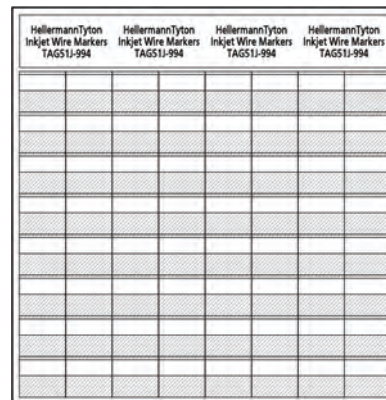
(Not shown to scale)



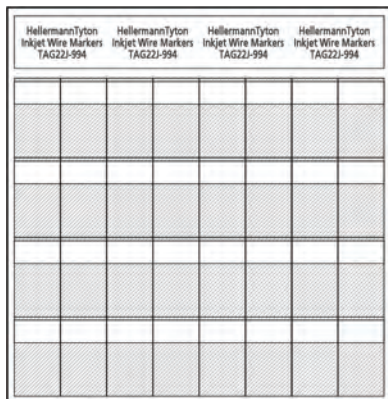
TAG26J-994

**A**

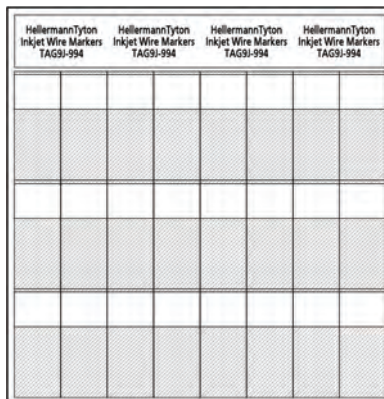
TAG5J-994

**B**

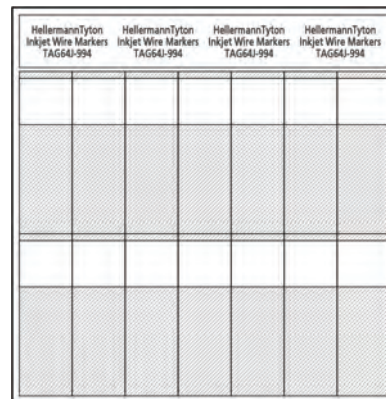
TAG51J-994

**C**

TAG22J-994

**D**

TAG9J-994

**E**

TAG64J-994

**F**

## ShrinkTrak™ Heat Shrinkable Markers

HellermannTyton's ShrinkTrak™ heat-shrinkable markers make it easy to mark wire, cable, and other components. These ladder-style markers are designed with side slits for easier application. All ShrinkTrak™ markers are military specified. They also reduce printer jams with their efficient and high-performance design. For seamless labeling, ShrinkTrak™ can be printed using HellermannTyton's TagPrint™ Pro professional label creation software, thermal transfer printers, and ribbons to create a permanent and solvent-resistant print when shrunk and applied.

### Versatile

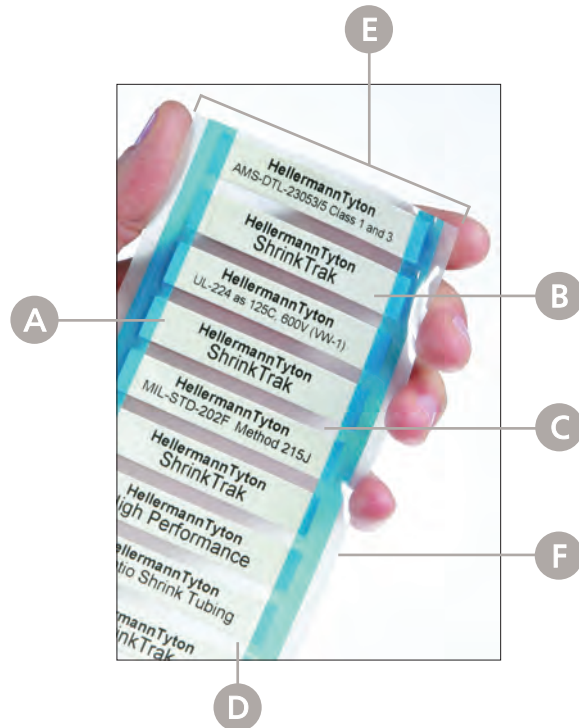
- Flexible, flame retardant, heat shrinkable polyolefin tubing meets all military specifications
- 3:1 shrink ratio
- Standard colors - yellow, white and black
- Larger packaging options result in less box changes

### High Performance Design

- Center slit versions reduce or eliminate hand cutting
- Non-slip, printable liner allows additional marker data to be printed on the reverse side for records and placement instructions
- Utilize HellermannTyton's Durattach ribbon system for the highest print performance on the market

### Reduce Printer Jams

- Markers dispense directly into HellermannTyton thermal transfer printers with custom box opening
- Dispense markers faster and easier with waxed core dispenser



- A. Side slit for easy insertion and removal from liner
- B. Smooth, flat surface allows for consistent printing
- C. Reduced spacing between markers for more efficient use of ribbon material
- D. Markers firmly secured on anti-static liner to reduce static build-up in printers
- E. Standard width to fit almost all thermal transfer printers
- F. Pin-feed system not required

### Ease of Use - Step by Step Guide



#### Step 1

Print with thermal transfer printer



#### Step 2

Bend liner at side slit



#### Step 3

Insert wire into marker



#### Step 4

Pull-up on wire - the marker will pull away from liner



**ShrinkTrak Applied!**

ShrinkTrak™ Heat Shrinkable Markers *continued*

| Technical Data                             |                                                                      |
|--------------------------------------------|----------------------------------------------------------------------|
| Material                                   | Polyolefin, cross-linked (POX)                                       |
| Product Thickness                          | 3 mil total thickness                                                |
| Shrink Temperature (nominal)               | +194 °F (+90 °C)                                                     |
| Operating Temperature                      | -67 °F to +275 °F (-55 °C to +135 °C)                                |
| Flame Retardant                            | Yes                                                                  |
| Flammability                               | UL224 VW1                                                            |
| Flexibility                                | flexible                                                             |
| Abrasion Resistance                        | Good                                                                 |
| Solvent Resistance                         | Good                                                                 |
| Standard Colors                            | White, Yellow & Black                                                |
| *For other colors, contact HellermannTyton |                                                                      |
| UL Rating                                  | Meets UL-224 as +257 °F (+125 °C), 600V (VW-1)                       |
| Certification                              | AMS-DTL-23053/5 Class 1 and 3, SAE-AS81531, MIL-STD-202G Method 215K |



## Recommended Thermal Transfer Ribbons

TT230SM Printer

TTDTHOUTSM

T822OUTSM

TTHSTOUTSM

TT900OUTSM

TTM430, TT1220,

TTM460, TT1210 or

other thermal transfer printer

TTDTHOUT

TT822OUT

TTHSTOUT

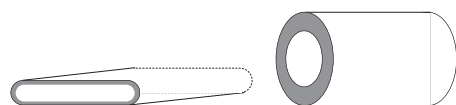
TT900OUT



## ShrinkTrak Specifications

| Nominal Size                                                                   | 0.125"                            | 0.187"                            | 0.25"                             | 0.375"                             | 0.50"                              | 0.75"                             | 1.0"                               |
|--------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| Inside Diameter As Supplied In. (mm)                                           | 0.118 +/- 0.024<br>(3.0 +/- 0.6)  | 0.177 +/- 0.032<br>(4.5 +/- 0.8)  | 0.236 +/- 0.040<br>(6.0 +/- 1.0)  | 0.354 +/- 0.040<br>(9.0 +/- 1.0)   | 0.472 +/- 0.040<br>(12.0 +/- 1.0)  | 0.748 +/- 0.060<br>(19.0 +/- 1.5) | 1.024 +/- 0.080<br>(26.0 +/- 2.0)  |
| Inside Diameter After Recovery In. (mm)                                        | 0.043<br>(1.0)                    | 0.063<br>(1.6)                    | 0.083<br>(2.1)                    | 0.122<br>(3.1)                     | 0.166<br>(4.2)                     | 0.25<br>(6.35)                    | 0.33<br>(8.3)                      |
| Wall Thickness After Recovery In. (mm)                                         | 0.024 +/- 0.004<br>(.60 +/- 0.10) | 0.026 +/- 0.004<br>(.65 +/- 0.10) | 0.028 +/- 0.004<br>(.71 +/- 0.10) | 0.031 +/- 0.006<br>(0.78 +/- 0.15) | 0.033 +/- 0.006<br>(0.83 +/- 0.15) | 0.039 +/- 0.006<br>(1.0 +/- 0.15) | 0.047 +/- 0.008<br>(1.20 +/- 0.20) |
| Overall Width In. (mm)                                                         | 0.209 +/- 0.040<br>(5.3 +/- 1.0)  | 0.303 +/- 0.052<br>(7.7 +/- 1.3)  | 0.398 +/- 0.063<br>(10.1 +/- 1.6) | 0.587 +/- 0.063<br>(14.9 +/- 1.6)  | 0.776 +/- 0.063<br>(19.7 +/- 1.6)  | 1.15 +/- 0.079<br>(30.3 +/- 2.0)  | 1.60 +/- 0.098<br>(40.5 +/- 2.5)   |
| Overall Height In. (mm)                                                        | 0.020<br>(0.51)                   | 0.020<br>(0.51)                   | 0.020<br>(0.51)                   | 0.025<br>(0.558)                   | 0.026<br>(0.63)                    | 0.027<br>(0.68)                   | 0.030<br>(0.76)                    |
| Dimensional Reference (if the wire or cable diameter is less than or equal to) |                                   |                                   |                                   |                                    |                                    |                                   |                                    |

Dimension listed apply to Sumitube B2 (3X) FLT tube only and not the dimensional characteristics associated with the conversion process.

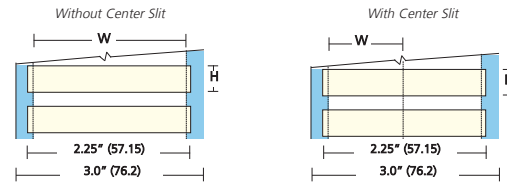


\*As supplied

\*\*Recovered

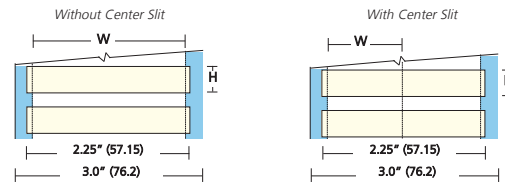
\* Contact HellermannTyton for custom color options.

\*\* Meets printer performance requirements of SAE-AS81531 using the ribbons listed above in any thermal transfer printer, including HellermannTyton's, TT230SM, TT320SM, TTM430, and TTM460

ShrinkTrak™ Heat Shrinkable Markers *continued*

| Product Selection                   |           |                 |                              |        |             |               |               |            |       |           |
|-------------------------------------|-----------|-----------------|------------------------------|--------|-------------|---------------|---------------|------------|-------|-----------|
| Article No.                         | Part No.  | Type            | Cross Ref to Former Part No. | Color  | Center Slit | Width (W)     |               | Height (H) |       | Pkg. Qty. |
|                                     |           |                 |                              |        |             | In.           | (mm.)         | In.        | (mm.) |           |
| 0.125" (3.17mm) - Outside Diameter  |           |                 |                              |        |             |               |               |            |       |           |
| 553-50001                           | 553-50001 | HST3-1BK        | THS-610BM                    | Black  | -           | 1.9" (48.26)  | .235" (5.97)  |            |       | 250       |
| 553-50002                           | 553-50002 | HST3-1WH        | THS-610W                     | White  | -           | 1.9" (48.26)  | 1.90" (48)    |            |       | 250       |
| 553-50003                           | 553-50003 | HST3-1WH        | THS-610W10C                  | White  | -           | 1.9" (48.26)  | 1.90" (48)    |            |       | 1000      |
| 553-50078                           | 553-50078 | HST3-1WH        | THS-610W25C                  | White  | -           | 1.9" (48.26)  | .235" (5.97)  |            |       | 2500      |
| 553-50004                           | 553-50004 | HST3-1WH-S      | THS-610WP                    | White  | Single      | .95" (24.1)   | .235" (5.97)  |            |       | 500       |
| 553-50074                           | 553-50074 | HST3-1WH-S      | THS-610WP10C                 | White  | Single      | .95" (24.1)   | .235" (5.97)  |            |       | 2000      |
| 553-50067                           | 553-50067 | HST3-1WH-S      | THS-610WP25C                 | White  | Single      | .95" (24.1)   | .235" (5.97)  |            |       | 5000      |
| 553-50070                           | 553-50070 | HST3-1WH-2S     | THS-610W2P                   | White  | Double      | .63" (16.08)  | .235" (5.97)  |            |       | 750       |
| 553-50075                           | 553-50075 | HST3-1WH-2S     | THS-610W2P10C                | White  | Double      | .63" (16.08)  | .235" (5.97)  |            |       | 3000      |
| 553-50063                           | 553-50063 | HST3-1WH-3S     | THS-610W3P                   | White  | Triple      | .475" (12.07) | .235" (5.97)  |            |       | 1000      |
| 553-50088                           | 553-50088 | HST3-1WH-3S     | THS-610W3P10C                | White  | Triple      | .475" (12.07) | .475" (12)    |            |       | 4000      |
| 553-50006                           | 553-50006 | HST3-1YE        | THS-610Y10C                  | Yellow | -           | 1.9" (48.26)  | .235" (5.97)  |            |       | 1000      |
| 553-50005                           | 553-50005 | HST3-1YE        | THS-610Y                     | Yellow | -           | 1.9" (48.26)  | .235" (5.97)  |            |       | 250       |
| 553-50007                           | 553-50007 | HST3-1YE-S      | THS-610YP                    | Yellow | Single      | .95" (24.1)   | .235" (5.97)  |            |       | 500       |
| 553-50076                           | 553-50076 | HST3-1YE-S      | THS-610YP10C                 | Yellow | Single      | .95" (24.1)   | .235" (5.97)  |            |       | 2000      |
| 553-50071                           | 553-50071 | HST3-1YE-2S     | THS-610Y2P                   | Yellow | Double      | .63" (16.08)  | .235" (5.97)  |            |       | 750       |
| 553-50077                           | 553-50077 | HST3-1YE-2S     | THS-610Y2P10C                | Yellow | Double      | .63" (16.08)  | .235" (5.97)  |            |       | 3000      |
| 0.187" (4.74 mm) - Outside Diameter |           |                 |                              |        |             |               |               |            |       |           |
| 553-50008                           | 553-50008 | HST4.8-1.6BK    | THS-615BM                    | Black  | -           | 1.9" (48.26)  | .312" (7.92)  |            |       | 250       |
| 553-50009                           | 553-50009 | HST4.8-1.6WH    | THS-615W                     | White  | -           | 1.9" (48.26)  | .312" (7.92)  |            |       | 250       |
| 553-50010                           | 553-50010 | HST4.8-1.6WH    | THS-615W10C                  | White  | -           | 1.9" (48.26)  | .312" (7.92)  |            |       | 1000      |
| 553-50177                           | 553-50177 | HST4.8-1.6WH    | THS-615W30C                  | White  | -           | 1.9" (48.26)  | .312" (7.92)  |            |       | 3000      |
| 553-50079                           | 553-50079 | HST4.8-1.6WH    | THS-615W50C                  | White  | -           | 1.9" (48.26)  | .312" (7.92)  |            |       | 5000      |
| 553-50011                           | 553-50011 | HST4.8-1.6WH-S  | THS-615WP                    | White  | Single      | .95" (24.1)   | .312" (7.92)  |            |       | 500       |
| 553-50080                           | 553-50080 | HST4.8-1.6WH-S  | THS-615WP10C                 | White  | Single      | .95" (24.1)   | .312" (7.92)  |            |       | 2000      |
| 553-50068                           | 553-50068 | HST4.8-1.6WH-2S | THS-615W2P                   | White  | Double      | .633" (16.08) | .312" (7.92)  |            |       | 750       |
| 553-50072                           | 553-50072 | HST4.8-1.6WH-2S | THS-615W2P10C                | White  | Double      | .633" (16.08) | .312" (7.92)  |            |       | 3000      |
| 553-50064                           | 553-50064 | HST4.8-1.6WH-3S | THS-615W3P                   | White  | Triple      | .475" (12.07) | .312" (7.92)  |            |       | 1000      |
| 553-50081                           | 553-50081 | HST4.8-1.6WH-3S | THS-615W3P10C                | White  | Triple      | .475" (12.07) | .312" (7.92)  |            |       | 4000      |
| 553-50013                           | 553-50013 | HST4.8-1.6YE    | THS-615Y10C                  | Yellow | -           | 1.9" (48.26)  | .312" (7.92)  |            |       | 1000      |
| 553-50012                           | 553-50012 | HST4.8-1.6YE    | THS-615Y                     | Yellow | -           | 1.9" (48.26)  | .312" (7.92)  |            |       | 250       |
| 553-50014                           | 553-50014 | HST4.8-1.6YE-S  | THS-615XP                    | Yellow | Single      | .95" (24.1)   | .312" (7.92)  |            |       | 500       |
| 553-50069                           | 553-50069 | HST4.8-1.6YE-2S | THS-615Y2P                   | Yellow | Double      | .633" (16.08) | .312" (7.92)  |            |       | 750       |
| 553-50073                           | 553-50073 | HST4.8-1.6YE-2S | THS-615Y2P10C                | Yellow | Double      | .633" (16.08) | .312" (7.92)  |            |       | 3000      |
| 553-50176                           | 553-50176 | HST4.8-1.6WH-S  | THS-615Y2P10C                | White  | Double      | .95" (24.1)   | .312" (7.92)  |            |       | 10000     |
| 0.25" (6.35mm) - Outside Diameter   |           |                 |                              |        |             |               |               |            |       |           |
| 553-50015                           | 553-50015 | HST6-2BK        | THS-620BM                    | Black  | -           | 1.9" (48.26)  | .420" (10.67) |            |       | 250       |
| 553-50016                           | 553-50016 | HST6-2WH        | THS-620W                     | White  | -           | 1.9" (48.26)  | .420" (10.67) |            |       | 250       |
| 553-50017                           | 553-50017 | HST6-2WH        | THS-620W10C                  | White  | -           | 1.9" (48.26)  | .420" (10.67) |            |       | 1000      |
| 553-50018                           | 553-50018 | HST6-2WH        | THS-620W50C                  | White  | -           | 1.9" (48.26)  | .420" (10.67) |            |       | 5000      |
| 553-50019                           | 553-50019 | HST6-2WH-S      | THS-620WP                    | White  | Single      | .95" (24.1)   | .420" (10.67) |            |       | 500       |
| 553-50020                           | 553-50020 | HST6-2YE        | THS-620WP10C                 | Yellow | -           | 1.9" (48.26)  | .420" (10.67) |            |       | 250       |
| 553-50021                           | 553-50021 | HST6-2YE        | THS-620W2P                   | Yellow | -           | 1.9" (48.26)  | .420" (10.67) |            |       | 1000      |
| 553-50022                           | 553-50022 | HST6-2YE-S      | THS-620W3P                   | Yellow | Single      | .95" (24.1)   | .420" (10.67) |            |       | 500       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

ShrinkTrak™ Heat Shrinkable Markers *continued*

| Product Selection                             |           |               |                              |        |             |           |         |            |         |           |
|-----------------------------------------------|-----------|---------------|------------------------------|--------|-------------|-----------|---------|------------|---------|-----------|
| Article No.                                   | Part No.  | Type          | Cross Ref to Former Part No. | Color  | Center Slit | Width (W) |         | Height (H) |         | Pkg. Qty. |
|                                               |           |               |                              |        |             | In.       | (mm.)   | In.        | (mm.)   |           |
| 0.25" (6.35mm) - Outside Diameter (continued) |           |               |                              |        |             |           |         |            |         |           |
| 553-50082                                     | 553-50082 | HST6-2WH-2S   | THS-620W2P                   | White  | Double      | .633"     | (16.08) | .420"      | (10.67) | 750       |
| 553-50083                                     | 553-50083 | HST6-2YE-2S   | THS-620Y2P                   | Yellow | Double      | .633"     | (16.08) | .420"      | (10.67) | 750       |
| 553-50084                                     | 553-50084 | HST6-2WH-S    | THS-620WP10C                 | White  | Single      | .95"      | (24.1)  | .420"      | (10.67) | 2000      |
| 553-50085                                     | 553-50085 | HST6-2YE-S    | THS-620YP10C                 | Yellow | Single      | .95"      | (24.1)  | .420"      | (10.67) | 2000      |
| 553-50089                                     | 553-50089 | HST6-2WH-3S   | THS-620W3P10C                | White  | Triple      | .475"     | (12.07) | .420"      | (10.67) | 4000      |
| 0.375" (9.52 mm) - Outside Diameter           |           |               |                              |        |             |           |         |            |         |           |
| 553-50023                                     | 553-50023 | HST9-3BK      | THS-625BM                    | Black  | -           | 1.9"      | (48.26) | .597"      | (15.16) | 250       |
| 553-50024                                     | 553-50024 | HST9-3WH      | THS-625W                     | White  | -           | 1.9"      | (48.26) | .597"      | (15.16) | 250       |
| 553-50025                                     | 553-50025 | HST9-3WH-S    | THS-625WP                    | White  | Single      | .95"      | (24.1)  | .597"      | (15.16) | 500       |
| 553-50066                                     | 553-50066 | HST9-3WH-3S   | THS-625W3P                   | White  | Triple      | .475"     | (12.07) | .597"      | (15.16) | 1000      |
| 553-50026                                     | 553-50026 | HST9-3YE      | THS-625Y                     | Yellow | -           | 1.9"      | (48.26) | .597"      | (15.16) | 250       |
| 553-50027                                     | 553-50027 | HST9-3YE-S    | THS-625YP                    | Yellow | Single      | .95"      | (24.1)  | .597"      | (15.16) | 500       |
| 553-50192                                     | 553-50192 | HST9-3WH      | THS-625W10C                  | White  | -           | 1.9"      | (48.26) | .597"      | (15.16) | 1000      |
| 0.50" (12.7 mm) - Outside Diameter            |           |               |                              |        |             |           |         |            |         |           |
| 553-50028                                     | 553-50028 | HST12-4BK     | THS-630BM                    | Black  | -           | 1.9"      | (48.26) | .77"       | (19.55) | 250       |
| 553-50029                                     | 553-50029 | HST12-4WH     | THS-630W                     | White  | -           | 1.9"      | (48.26) | .77"       | (19.55) | 250       |
| 553-50030                                     | 553-50030 | HST12-4WH-S   | THS-630WP                    | White  | Single      | .95"      | (24.1)  | .77"       | (19.55) | 500       |
| 553-50086                                     | 553-50086 | HST12-4WH-3S  | THS-630W3P                   | White  | Triple      | .475"     | (12.07) | .77"       | (19.55) | 1000      |
| 553-50031                                     | 553-50031 | HST12-4YE     | THS-630Y                     | Yellow | -           | 1.9"      | (48.26) | .77"       | (19.55) | 250       |
| 553-50032                                     | 553-50032 | HST12-4YE-S   | THS-630YP                    | Yellow | Single      | .95"      | (24.1)  | .77"       | (19.55) | 500       |
| 553-50087                                     | 553-50087 | HST12-4YE-3S  | THS-630Y3P                   | Yellow | Triple      | .475"     | (12.07) | .77"       | (19.55) | 1000      |
| 553-50231                                     | 553-50231 | HST12-4WH     | THS-630W10C                  | White  | -           | 1.9"      | (48.26) | .77"       | (19.55) | 1000      |
| 553-50232                                     | 553-50232 | HST12-4WH-S   | THS-630WP10C                 | White  | Single      | .95"      | (24.1)  | .77"       | (19.55) | 2000      |
| 0.75" (19.05 mm) - Outside Diameter           |           |               |                              |        |             |           |         |            |         |           |
| 553-50033                                     | 553-50033 | HST18-6BK     | THS-635BM                    | Black  | -           | 1.9"      | (48.26) | 1.2"       | (30.48) | 250       |
| 553-50034                                     | 553-50034 | HST18-6WH     | THS-635W                     | White  | -           | 1.9"      | (48.26) | 1.2"       | (30.48) | 250       |
| 553-50035                                     | 553-50035 | HST18-6WH-S   | THS-635WP                    | White  | Single      | .95"      | (24.1)  | 1.2"       | (30.48) | 500       |
| 553-50036                                     | 553-50036 | HST18-6YE     | THS-635Y                     | Yellow | -           | 1.9"      | (48.26) | 1.2"       | (30.48) | 250       |
| 553-50037                                     | 553-50037 | HST18-6YE-S   | THS-635YP                    | Yellow | Single      | .95"      | (24.1)  | 1.2"       | (30.48) | 500       |
| 553-50233                                     | 553-50233 | HST18-6WH     | THS-635W10C                  | White  | -           | 1.9"      | (48.26) | 1.2"       | (30.48) | 1000      |
| 553-50234                                     | 553-50234 | HST18-6WH-S   | THS-635WP10C                 | White  | Single      | .95"      | (24.1)  | 1.2"       | (30.48) | 2000      |
| 1.0" (25.4mm) - Outside Diameter              |           |               |                              |        |             |           |         |            |         |           |
| 553-50038                                     | 553-50038 | HST24-8BK     | THS-640BM                    | Black  | -           | 1.9"      | (48.26) | 1.69"      | (42.93) | 250       |
| 553-50039                                     | 553-50039 | HST24-8WH     | THS-640W                     | White  | -           | 1.9"      | (48.26) | 1.69"      | (42.93) | 250       |
| 553-50040                                     | 553-50040 | HST24-8WH-S   | THS-640WP                    | White  | Single      | .95"      | (24.1)  | 1.69"      | (42.93) | 500       |
| 553-50041                                     | 553-50041 | HST24-8YE     | THS-640Y                     | Yellow | -           | 1.9"      | (48.26) | 1.69"      | (42.93) | 250       |
| 553-50042                                     | 553-50042 | HST24-8YE-S   | THS-640YP                    | Yellow | Single      | .95"      | (24.1)  | 1.69"      | (42.93) | 500       |
| 1.5" (38.1mm) - Outside Diameter              |           |               |                              |        |             |           |         |            |         |           |
| 553-50226                                     | 553-50226 | HFST39-13WH-S | THS-645WP                    | White  | Single      | .95"      | (24.13) | 2.26"      | (57.40) | 300       |
| 553-50209                                     | 553-50209 | HST39-13WH    | THS-645W                     | White  | -           | 1.9"      | (48.26) | 2.26"      | (57.40) | 150       |
| 553-50225                                     | 553-50225 | HFST39-13YE   | THS-645Y                     | Yellow | -           | 1.9"      | (48.26) | 2.26"      | (57.40) | 150       |
| 553-50227                                     | 553-50227 | HFST39-13YE-S | THS-645YP                    | Yellow | Single      | .95"      | (24.13) | 2.26"      | (57.40) | 300       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Application Labels: Faceplates, Patch Panels, Telephone Racks

HellermannTyton offers a variety of labels for almost all of the common labeling requirements found in the design, development, and maintenance of the data center and the general infrastructure found in a typical voice and data installation. Each page will show recommended label part numbers for various applications. This page contains labels most commonly used on faceplates, patch panels and telephone racks. Simply determine the size you require and then use the chart to select your label.

| Product Selection |                        |            |                  |        |        |           |
|-------------------|------------------------|------------|------------------|--------|--------|-----------|
| Article No.       | Part No.               | Type       | Printer Type     | Width  | Height | Pkg. Qty. |
| 557-00048         | <b>TAGH71-336</b>      | TAGH71     | Thermal Transfer | .5"    | .435"  | 500       |
| 596-71822         | <b>TAG71T5-822</b>     | TAG71T5    | Thermal Transfer | .5"    | .43"   | 10000     |
| 596-00029         | <b>TAGPP1T6-822C</b>   | TAGPP1T6   | Thermal Transfer | .625"  | .333"  | 1000      |
| 596-00032         | <b>TAGPP1T4-822</b>    | TAGPP1T4   | Thermal Transfer | .625"  | .333"  | 10000     |
| 596-00028         | <b>TAGPP1T6-822</b>    | TAGPP1T6   | Thermal Transfer | .625"  | .333"  | 1000      |
| 596-00003         | <b>TAG11T4-822C</b>    | TAG11T4    | Thermal Transfer | .65"   | .2"    | 5000      |
| 596-00047         | <b>TAGPP2T6-822C</b>   | TAGPP2T6   | Thermal Transfer | .66"   | .33"   | 1000      |
| 596-00046         | <b>TAGPP2T6-822</b>    | TAGPP2T6   | Thermal Transfer | .66"   | .33"   | 1000      |
| 596-00083         | <b>TAGPP3T4-822</b>    | TAGPP3T4   | Thermal Transfer | .68"   | .25"   | 1000      |
| 596-00084         | <b>TAGPP3T4-822C</b>   | TAGPP3T4   | Thermal Transfer | .68"   | .25"   | 1000      |
| 596-00001         | <b>TAG15T3-822C10M</b> | TAG15T3    | Thermal Transfer | 1.0"   | .5"    | 10000     |
| 593-00001         | <b>TAGPHONE</b>        | TAGPHONE   | Thermal Transfer | 1.75"  | .375"  | 1000      |
| 596-00017         | <b>TAG74T2-PAP</b>     | TAG74T2    | Thermal Transfer | 1.75"  | .375"  | 1000      |
| 596-00026         | <b>TAG96T1-336</b>     | TAG96T1    | Thermal Transfer | 1.875" | .25"   | 5000      |
| 596-00041         | <b>TAG69T1-336</b>     | TAG69T1    | Thermal Transfer | 2.0"   | .275"  | 10000     |
| 596-00025         | <b>TAG82T2-PAP</b>     | TAG82T2    | Thermal Transfer | 2.0"   | .396"  | 1000      |
| 596-42822         | <b>TAG72T1-822</b>     | TAG72T1    | Thermal Transfer | 2.75"  | 1.25"  | 3000      |
| 596-00024         | <b>TAG85T1-PAP</b>     | TAG85T1    | Thermal Transfer | 3.0"   | .50"   | 5000      |
| 596-80795         | <b>TAG80T1-795</b>     | TAG80T1    | Thermal Transfer | 3.0"   | 5.0"   | 500       |
| 596-00040         | <b>TAG68T1-336</b>     | TAG68T1    | Thermal Transfer | 3.8"   | .275"  | 10000     |
| 596-00023         | <b>TAG83T1-822</b>     | TAG83T1    | Thermal Transfer | 4.0"   | .312"  | 5000      |
| 596-79795         | <b>TAG79T1-795</b>     | TAG79T1    | Thermal Transfer | 4.0"   | 2.0"   | 500       |
| 594-00001         | <b>TAGPP2-788</b>      | TAGPP2     | Spirit           | .66"   | .330"  | 1000      |
| 557-00063         | <b>TAGHPP-336</b>      | TAGHPP     | Spirit           | .875"  | .333"  | 500       |
| 557-00040         | <b>TAGH15-336</b>      | TAGH15     | Spirit           | 1.0"   | .5"    | 500       |
| 557-00058         | <b>TAGH89-336</b>      | TAGH89     | Spirit           | 1.75"  | .375"  | 500       |
| 591-00117         | <b>TAGH98-336-WH</b>   | TAGH98     | Spirit           | 1.9"   | .375"  | 250       |
| 557-00049         | <b>TAGH73-336</b>      | TAGH73     | Spirit           | 2.0"   | 1.0"   | 250       |
| 593-01108         | <b>TAGPP1J-108</b>     | TAGPP1J    | Laser            | .625"  | .310"  | 1000      |
| 594-02788         | <b>TAGPP1-788C</b>     | TAGPP1     | Laser            | .625"  | .333"  | 1000      |
| 594-00003         | <b>TAGPP11010</b>      | TAGPP11010 | Laser            | .66"   | .33"   | 1000      |
| 594-00002         | <b>TAGPP2-788C</b>     | TAGPP2     | Laser            | .66"   | .33"   | 1000      |
| 594-11789         | <b>TAG11L-789</b>      | TAG11L     | Laser            | .65"   | .2"    | 5000      |
| 594-01788         | <b>TAGPP1-788</b>      | TAGPP1     | Laser            | 1.5"   | .37"   | 1000      |
| 594-62788         | <b>TAG62L-788</b>      | TAG62L     | Laser            | 1.5"   | .37"   | 1000      |
| 591-00065         | <b>TAGH97-336-WH</b>   | TAGH97     | Laser            | 1.875" | .25"   | 750       |
| 594-96789         | <b>TAG96L-789</b>      | TAG96L     | Laser            | 1.875" | .25"   | 1000      |
| 594-69789         | <b>TAG69L-789</b>      | TAG69L     | Laser            | 2.0"   | .275"  | 1000      |
| 594-67789         | <b>TAG67L-789</b>      | TAG67L     | Laser            | 2.87"  | .375"  | 1000      |
| 594-66789         | <b>TAG66L-789</b>      | TAG66L     | Laser            | 3.59"  | .375"  | 1000      |
| 594-68789         | <b>TAG68L-789</b>      | TAG68L     | Laser            | 3.8"   | .275"  | 2500      |
| 593-00002         | <b>PHONETAG</b>        | PHONETAG   | N/A              | 2.0"   | .396"  | 1000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Application Labels: Fire-Stopping Locations Racks, Raceway, and Pathway

A fire-stopping location identifier shall be labeled at each location where fire stopping is installed, on each side of the penetration barrier, within 12 inches of the fire-stopping material. Raceways and pathways can be optionally marked if the mapping of infrastructure elements are important to the installation. HellermannTyton labels are designed to meet all the critical parameters of the ANSI/EIA/TIA-606-A standard and addendum 1.

| Product Selection |                    |         |                  |       |        |           |
|-------------------|--------------------|---------|------------------|-------|--------|-----------|
| Article No.       | Part No.           | Type    | Printer Type     | Width | Height | Pkg. Qty. |
| 596-27822         | <b>TAG27T1-822</b> | TAG27T1 | Thermal Transfer | 1.5"  | .75"   | 3000      |
| 596-00019         | <b>TAG75T1-822</b> | TAG75T1 | Thermal Transfer | 2.0"  | .625"  | 2500      |
| 596-73822         | <b>TAG73T1-822</b> | TAG73T1 | Thermal Transfer | 2.0"  | 1.0"   | 3000      |
| 596-42822         | <b>TAG72T1-822</b> | TAG72T1 | Thermal Transfer | 2.75" | 1.25"  | 3000      |
| 557-00044         | <b>TAGH27-336</b>  | TAGH27  | Spirit           | 1.5"  | .75"   | 500       |
| 557-00051         | <b>TAGH75-336</b>  | TAGH75  | Spirit           | 2.0"  | .625"  | 500       |
| 557-00052         | <b>TAGH75-3364</b> | TAGH75  | Spirit           | 2.0"  | .625"  | 500       |
| 557-00049         | <b>TAGH73-336</b>  | TAGH73  | Spirit           | 2.0"  | 1.0"   | 250       |
| 557-00050         | <b>TAGH73-3364</b> | TAGH73  | Spirit           | 2.0"  | 1.0"   | 250       |
| 594-61788         | <b>TAG61L-788</b>  | TAG61L  | Laser            | 2.62" | 1.0"   | 7500      |
| 594-60788         | <b>TAG60L-788</b>  | TAG60L  | Laser            | 2.83" | 1.5"   | 5250      |
| 594-59788         | <b>TAG59L-788</b>  | TAG59L  | Laser            | 4.0"  | 1.5"   | 3500      |
| 593-65108         | <b>TAG65J-108</b>  | TAG65J  | Ink Jet          | 1.0"  | 1.5"   | 12500     |
| 593-59108         | <b>TAG59J-108</b>  | TAG59J  | Ink Jet          | 4.0"  | 1.5"   | 3500      |
| 597-00044         | <b>TFOT1</b>       | TFOT1   | N/A              | 1.0"  | .648"  | 1         |
| 597-00037         | <b>GWT003X2</b>    | GW      | N/A              | 3.0"  | 1.5"   | 25        |
| 597-00038         | <b>GWC003X2</b>    | GW      | N/A              | 3.0"  | 1.5"   | 25        |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Application Labels: Marking Flat Surfaces, Racks, Floor Tiles, Conduits, and Cabinets

The Addendum 1 for the ANSI/EIA/TIA-606-A standard indicates that racks and cabinets shall be marked with either the grid location or rack/row location within the space or data center. Floor tiles or the walls can be labeled so that the corresponding grid or row layout can be identified from within the space. The larger label formats make it easy to read from longer distances and can be printed using thermal transfer, laser or ink-jet printers. TagPrint™ Pro makes label design and printing easy and fast.

| Product Selection |                    |         |                  |                                      |       |        |           |
|-------------------|--------------------|---------|------------------|--------------------------------------|-------|--------|-----------|
| Article No.       | Part No.           | Type    | Printer Type     | Material                             | Width | Height | Pkg. Qty. |
| 596-27822         | <b>TAG27T1-822</b> | TAG27T1 | Thermal Transfer | Type 822, Polyester, white           | 1.5"  | .75"   | 3000      |
| 596-73822         | <b>TAG73T1-822</b> | TAG73T1 | Thermal Transfer | Type 822, Polyester, white           | 2.0"  | 1.0"   | 3000      |
| 596-42822         | <b>TAG72T1-822</b> | TAG72T1 | Thermal Transfer | Type 822, Polyester, white           | 2.75" | 1.25"  | 3000      |
| 596-80795         | <b>TAG80T1-795</b> | TAG80T1 | Thermal Transfer | Type 795, Polyester, silver matt     | 3.0"  | 5.0"   | 500       |
| 596-79795         | <b>TAG79T1-795</b> | TAG79T1 | Thermal Transfer | Type 795, Polyester, silver matt     | 4.0"  | 2.0"   | 500       |
| 594-61788         | <b>TAG61L-788</b>  | TAG61L  | Laser            | Type 788, Polyethylene Terephthalate | 2.62" | 1.0"   | 7500      |
| 594-45789         | <b>TAG45L-789</b>  | TAG45L  | Laser            | Type 789, Polyethylene Terephthalate | 4.0"  | .80"   | 5000      |
| 594-55788         | <b>TAG55L-788</b>  | TAG55L  | Laser            | Type 788, Polyethylene Terephthalate | 4.25" | 5.5"   | 500       |
| 594-53788         | <b>TAG53L-788</b>  | TAG53L  | Laser            | Type 788, Polyethylene Terephthalate | 8.5"  | 10.81" | 250       |
| 594-54788         | <b>TAG54L-788</b>  | TAG54L  | Laser            | Type 788, Polyethylene Terephthalate | 8.5"  | 5.5"   | 500       |
| 593-28450         | <b>TAG28J-450</b>  | TAG28J  | Ink Jet          | Type 450, Polyethylene Terephthalate | .80"  | 1.437" | 1000      |
| 593-56108         | <b>TAG56J-108</b>  | TAG56J  | Ink Jet          | Type 108, Ink Jet White paper        | 3.33" | 4.0"   | 1500      |
| 593-57108         | <b>TAG57J-108</b>  | TAG57J  | Ink Jet          | Type 108, Ink Jet White paper        | 4.25" | 2.75"  | 2000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Labels and Cable Identifiers for Copper and Fiber Cables

A variety of self-laminating labels are available to meet the requirements of ANSI/EIA/TIA-606-A. HellermannTyton self-laminating labels can be printed using various printer types, including thermal transfer, laser and ink-jet printers. The self-laminating labels are designed to adhere tightly to standard Cat 3 to Cat 6 cables and are resistant to UV exposure, moisture, heat, and cold and should last the life of the installation.

| Product Selection |                     |        |                  |               |                                                     |        |            |             |           |
|-------------------|---------------------|--------|------------------|---------------|-----------------------------------------------------|--------|------------|-------------|-----------|
| Article No.       | Part No.            | Type   | Printer Type     | Max. Ø Bundle | For Wire Type                                       | Width  | Height (H) | Height (H2) | Pkg. Qty. |
| 596-00010         | <b>TAG2T5-100B</b>  | TAG2T5 | Thermal Transfer | .299"         | 4 Pair UTP / RG6 & RG59 Coax                        | .5"    | .5"        | 1.43"       | 10000     |
| 596-00007         | <b>TAG2T3-100B</b>  | TAG2T2 | Thermal Transfer | .299"         | 4 Pair UTP / RG6 & RG59 Coax                        | 1.0"   | .5"        | 1.43"       | 5000      |
| 596-00006         | <b>TAG2T2-100B</b>  | TAG2T2 | Thermal Transfer | .299"         | 4 Pair UTP / RG6 & RG59 Coax                        | 1.0"   | .5"        | 1.43"       | 5000      |
| 596-00045         | <b>TAG53T2-100B</b> | TAG53T | Thermal Transfer | .299"         | 4 Pair UTP / RG6 & RG59 Coax                        | 1.5"   | .7"        | 1.437"      | 2500      |
| 596-00002         | <b>TAG10T2-100B</b> | TAG10T | Thermal Transfer | .476"         | 4 Pair UTP/ STP / 25 Pair Copper / 4-12 Pair Fiber  | 2.0"   | .75"       | 2.25"       | 2500      |
| 596-00027         | <b>TAG9T3-100B</b>  | TAG9T3 | Thermal Transfer | .47"          | 4 Pair UTP/ STP / 25 Pair Copper / 4-12 Pair Fiber  | 1.0"   | .75"       | 2.25"       | 5000      |
| 596-00016         | <b>TAG6T1-100B</b>  | TAG6T1 | Thermal Transfer | .87"          | 50 Pair Copper                                      | 2.0"   | 1.5"       | 3.75"       | 1000      |
| 596-00013         | <b>TAG3T3-100B</b>  | TAG3T3 | Thermal Transfer | .87"          | 50 Pair Copper                                      | 1.0"   | 1.0"       | 3.75"       | 3000      |
| 596-00021         | <b>TAG7T1-100B</b>  | TAG7T1 | Thermal Transfer | 1.87"         | 100 Pair Copper                                     | 2.0"   | 1.5"       | 7.347"      | 1000      |
| 596-00009         | <b>TAG26T6-100B</b> | TAG26T | Thermal Transfer | .118"         | 2 Pair Fiber                                        | .5"    | .375"      | .75"        | 10000     |
| 596-00014         | <b>TAG51T3-100B</b> | TAG51T | Thermal Transfer | .118"         | 2 Pair Fiber                                        | 1.0"   | .35"       | .75"        | 10000     |
| 557-00011         | <b>TAGH2-100</b>    | TAGH2  | Spirit           | .29"          | 4 Pair UTP / RG6 & RG59 Coax                        | .5"    | .5"        | 1.435"      | 250       |
| 557-00012         | <b>TAGH2-1004</b>   | TAGH2  | Spirit           | .29"          | 4 Pair UTP / RG6 & RG59 Coax                        | .5"    | .5"        | 1.435"      | 250       |
| 557-00021         | <b>TAGH22-100</b>   | TAGH22 | Spirit           | .29"          | 4 Pair UTP / RG6 & RG59 Coax                        | 1.0"   | .5"        | 1.435"      | 250       |
| 557-00022         | <b>TAGH22-1004</b>  | TAGH22 | Spirit           | .29"          | 4 Pair UTP / RG6 & RG59 Coax                        | 1.0"   | .5"        | 1.435"      | 250       |
| 557-00018         | <b>TAGH9-100</b>    | TAGH9  | Spirit           | .476"         | 4 Pair UTP / STP / 25 Pair Copper / 4-12 Pair Fiber | 1.0"   | .75"       | 2.25"       | 100       |
| 557-00019         | <b>TAGH9-1004</b>   | TAGH9  | Spirit           | .476"         | 4 Pair UTP / STP / 25 Pair Copper / 4-12 Pair Fiber | 1.0"   | .75"       | 2.25"       | 100       |
| 557-00020         | <b>TAGH10-100</b>   | TAGH10 | Spirit           | .476"         | 4 Pair UTP / STP / 25 Pair Copper / 4-12 Pair Fiber | 2.0"   | .75"       | 2.25"       | 100       |
| 557-00028         | <b>TAGH95-100</b>   | TAGH95 | Spirit           | .866"         | Backbone Cable                                      | 1.5"   | 1.0"       | 3.75"       | 100       |
| 557-00015         | <b>TAGH6-100</b>    | TAGH6  | Spirit           | .86"          | 50 Pair Copper                                      | 2.0"   | 1.0"       | 3.75"       | 100       |
| 557-00013         | <b>TAGH3-100</b>    | TAGH3  | Spirit           | .87"          | 50 Pair Copper                                      | 1.0"   | 1.0"       | 3.75"       | 100       |
| 557-00026         | <b>TAGH26-100</b>   | TAGH26 | Spirit           | .118"         | 2 Pair Fiber                                        | .5"    | .35"       | .75"        | 500       |
| 557-00027         | <b>TAGH51-100</b>   | TAGH51 | Spirit           | .118"         | 2 Pair Fiber                                        | 1.0"   | .35"       | .75"        | 500       |
| 594-63105         | <b>TAG63L-105</b>   | TAG63L | Laser            | .299"         | 4 Pair UTP / RG6 & RG59 Coax                        | 1.000" | .500"      | .500"       | 2500      |
| 594-02105         | <b>TAG2L-105</b>    | TAG2L  | Laser            | .290"         | 4 Pair UTP / RG6 & RG59 Coax                        | .500"  | .500"      | .500"       | 5000      |
| 594-05105         | <b>TAG5L-105</b>    | TAG5L  | Laser            | .290"         | 4 Pair UTP / RG6 & RG59 Coax                        | .800"  | .500"      | .500"       | 5000      |
| 594-65105         | <b>TAG65L-105</b>   | TAG65L | Laser            | .450"         | 4 Pair STP / 25 Pair Copper                         | .810"  | .810"      | .810"       | 1000      |
| 594-09105         | <b>TAG9L-105</b>    | TAG9L  | Laser            | .450"         | 4 Pair UTP / STP / 25 Pair Copper / 4-12 Pair Fiber | 1.000" | .750"      | .750"       | 1000      |
| 594-10105         | <b>TAG10L-105</b>   | TAG10L | Laser            | .476"         | 4 Pair UTP / STP / 25 Pair Copper / 4-12 Pair Fiber | 2.000" | .750"      | .750"       | 1000      |
| 594-50105         | <b>TAG50L-105</b>   | TAG50L | Laser            | .790"         | 50 Pair Copper                                      | 1.000" | 1.000"     | 1.000"      | 1000      |
| 594-64105         | <b>TAG64L-105</b>   | TAG64L | Laser            | .790"         | 50 Pair Copper                                      | 1.170" | .830"      | .830"       | 1000      |
| 594-01105         | <b>TAG1L-105</b>    | TAG1L  | Laser            | .790"         | 50 Pair Copper                                      | 1.900" | .750"      | .750"       | 1000      |
| 594-49105         | <b>TAG49L-105</b>   | TAG49L | Laser            | .208"         | 2 Pair Fiber                                        | 1.000" | .350"      | .350"       | 2500      |
| 594-51105         | <b>TAG51L-105</b>   | TAG51L | Laser            | .129"         | 2 Pair Fiber                                        | 1.000" | .350"      | .350"       | 5000      |
| 594-26105         | <b>TAG26L-105</b>   | TAG26L | Laser            | .118"         | 2 Pair Fiber                                        | .500"  | .375"      | .375"       | 5000      |
| 593-22994         | <b>TAG22J-994</b>   | TAG22J | Ink Jet          | .315"         | 4 Pair UTP / RG6 & RG59 Coax                        | 1.000" | .500"      | .500"       | 1000      |
| 593-05994         | <b>TAG5J-994</b>    | TAG5J  | Ink Jet          | .315"         | 4 Pair UTP / RG6 & RG59 Coax                        | .800"  | .500"      | .500"       | 1000      |
| 593-64994         | <b>TAG64J-994</b>   | TAG64J | Ink Jet          | .790"         | 50 Pair Copper                                      | 1.160" | .860"      | .860"       | 1000      |
| 593-09994         | <b>TAG9J-994</b>    | TAG9J  | Ink Jet          | .450"         | 4 Pair UTP / STP / 25 Pair Copper / 4-12 Pair Fiber | 1.000" | .750"      | .750"       | 1000      |
| 593-26994         | <b>TAG26J-994</b>   | TAG26J | Ink Jet          | .087"         | 2 Pair Fiber                                        | .500"  | .350"      | .350"       | 2500      |
| 593-51994         | <b>TAG51J-994</b>   | TAG51J | Ink Jet          | .087"         | 2 Pair Fiber                                        | 1.000" | .350"      | .350"       | 1000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Foam Nameplate Labels

Foam nameplate labels are designed to replace plastic and metal engraved phenolic plates commonly found on control panels in many markets. The labels have a foam base so that they conform to textured surfaces, but still provide a perfectly flat printing surface that is resistant to chemicals, solvents, heat, and UV exposure. HellermannTyton's foam nameplate labels include computer printable button labels that fit around the panel hole where the button is inserted. The foam nameplate labels can be printed on demand in any volume needed, and any design can be printed on the labels using TagPrint™ Pro labeling software and HellermannTyton thermal transfer printers.



| Material Data         |                                                          |
|-----------------------|----------------------------------------------------------|
| Material Number       | 518                                                      |
| Material              | Polyester                                                |
| Foam                  | Polyethylene                                             |
| Adhesive              | Acrylic                                                  |
| Operating Temperature | -40°F (-40°C) to + 176°F (+80°C)<br>2 year outdoor rated |



| Product Selection             |                  |                 |                |                |               |           |
|-------------------------------|------------------|-----------------|----------------|----------------|---------------|-----------|
| Article No.                   | Part No.         | Type            | Width          | Height         | Hole          | Pkg. Qty. |
| <b>Foam Nameplates</b>        |                  |                 |                |                |               |           |
| 596-00500                     | <b>596-00500</b> | NPL27X13WH      | 1.06" (26.9mm) | .49" (12.4mm)  | N/A           | 500       |
| 596-00503                     | <b>596-00503</b> | NPL27X13BK      | 1.06" (26.9mm) | .49" (12.4mm)  | N/A           | 500       |
| 596-00504                     | <b>596-00504</b> | NPL51X25WH      | 2" (50.8mm)    | 1" (25.4mm)    | N/A           | 500       |
| 596-00507                     | <b>596-00507</b> | NPL51X25BK      | 2" (50.8mm)    | 1" (25.4mm)    | N/A           | 500       |
| 596-00417                     | <b>596-00417</b> | NPLH76X101WH    | 3" (76.2mm)    | 4" (76.2mm)    | N/A           | 150       |
| <b>Foam Button Nameplates</b> |                  |                 |                |                |               |           |
| 596-00412                     | <b>596-00412</b> | NPLH31X31WH22.5 | 1.25" (31.7mm) | 1.25" (31.7mm) | .88" (22.3mm) | 250       |
| 596-00413                     | <b>596-00413</b> | NPLH31X31BK22.5 | 1.25" (31.7mm) | 1.25" (31.7mm) | .88" (22.3mm) | 250       |
| 596-00414                     | <b>596-00414</b> | NPLH44X44WH30.5 | 1.75" (44.4mm) | 1.75" (44.4mm) | 1.2" (30.4mm) | 250       |
| 596-00415                     | <b>596-00415</b> | NPLH44X44BK30.5 | 1.75" (44.4mm) | 1.75" (44.4mm) | 1.2" (30.4mm) | 250       |
| 596-00202*                    | <b>596-00202</b> | NPL60X60YE      | 2.375 (60mm)   | 2.375 (60mm)   | 1.2" (30.4mm) | 100       |

Use **Part No.** for ordering and **Type** for specification purposes.

\*E-Stop label black on yellow



Foam Nameplates



Foam Button Nameplates

## Continuous Vinyl Labels

HellermannTyton continuous vinyl labels come in a variety of colors and printing widths. Designed to optimize unique and custom printing designs on demand, vinyl labels allow the maximum flexibility for printing unique sizes of labels. The vinyl is UV resistant up to five years in outdoor applications and can be used to print warning labels, voltage markers, switch identifiers, and even pipe markers using TagPrint™ Pro labeling software and any HellermannTyton thermal transfer printing system.



### Material Data

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Material Number       | 1500                                                     |
| Material              | Vinyl                                                    |
| Adhesive              | Acrylic                                                  |
| Operating Temperature | -40°F (-40°C) to + 180°F (+82°C)<br>5 year outdoor rated |

### Product Selection

| Article No.                    | Part No.         | Type         | Width           | Length      | Description                              | Color  | Pkg. Qty. | Pkg. Type. |
|--------------------------------|------------------|--------------|-----------------|-------------|------------------------------------------|--------|-----------|------------|
| 558-00309                      | <b>558-00309</b> | HT1WH250     | 1" (25.4mm)     | 250' (76M)  | White Vinyl on Continuous Roll           | White  | 250       | RL         |
| 558-00313                      | <b>558-00313</b> | HT2WH250     | 2" (50.8mm)     | 250' (76M)  | White Vinyl on Continuous Roll           | White  | 250       | RL         |
| 558-00310                      | <b>558-00310</b> | HT1YE250     | 1" (25.4mm)     | 250' (76M)  | Yellow Vinyl on Continuous Roll          | Yellow | 250       | RL         |
| 558-00314                      | <b>558-00314</b> | HT2YE250     | 2" (50.8mm)     | 250' (76M)  | Yellow Vinyl on Continuous Roll          | Yellow | 250       | RL         |
| 558-00308                      | <b>558-00308</b> | HT1RD250     | 1" (25.4mm)     | 250' (76M)  | Red Vinyl on Continuous Roll             | Red    | 250       | RL         |
| 558-00312                      | <b>558-00312</b> | HT2RD250     | 2" (50.8mm)     | 250' (76M)  | Red Vinyl on Continuous Roll             | Red    | 250       | RL         |
| 558-00006                      | <b>558-00006</b> | HT3RD250     | 3" (76.2mm)     | 250' (76M)  | Red Vinyl on Continuous Roll             | Red    | 250       | RL         |
| 558-00307                      | <b>558-00307</b> | HT1BK250     | 1" (25.4mm)     | 250' (76M)  | Black Vinyl on Continuous Roll           | Black  | 250       | RL         |
| 558-00311                      | <b>558-00311</b> | HT2BK250     | 2" (50.8mm)     | 250' (76M)  | Black Vinyl on Continuous Roll           | Black  | 250       | RL         |
| <b>Thermal Transfer Ribbon</b> |                  |              |                 |             |                                          |        |           |            |
| 556-00189                      | <b>556-00189</b> | TTWHITEOUT   | 4.33" (109.9mm) | 984' (300M) | White Ribbon on 1" Core Coated Sided Out | White  | 1         | 1          |
| 556-00190                      | <b>556-00190</b> | TTWHITEOUTSM | 4.33" (109.9mm) | 250' (76M)  | White Ribbon on 1" Core                  | White  | 1         | 1          |
| 556-00101                      | <b>TT822OUT</b>  | TT822OUT     | 4.33" (109.9mm) | 984' (300M) | Black Ribbon for TT1220, TTM430, TTM460  | Black  | 1         | 1          |

Use **Part No.** for ordering and **Type** for specification purposes.

## Telecommunications Space Identifiers

The identifier for the telecommunications space should be marked inside the room and should be visible to someone working in that room. Typically, these are larger-sized labels and, in many cases, the labels are duplicated and applied at various locations throughout the room. TagPrint™ Pro can help you design and print the large characters needed to print on these durable and UV resistant labels.

Product Selection

| Article No. | Part No.             | Type    | Printer Type     | Material                             | Width | Height | Pkg. Qty. |
|-------------|----------------------|---------|------------------|--------------------------------------|-------|--------|-----------|
| 596-76795   | <b>TAG76T1-795</b>   | TAG76T1 | Thermal Transfer | Type 795, Polyester, silver matte    | 2.5"  | 2.0"   | 1000      |
| 596-78795   | <b>TAG78T1-795</b>   | TAG78T1 | Thermal Transfer | Type 795, Polyester, silver matte    | 3.0"  | 4.0"   | 500       |
| 596-79795   | <b>TAG79T1-795</b>   | TAG79T1 | Thermal Transfer | Type 795, Polyester, silver matte    | 4.0"  | 2.0"   | 500       |
| 596-80795   | <b>TAG80T1-795</b>   | TAG80T1 | Thermal Transfer | Type 795, Polyester, silver matte    | 3.0"  | 5.0"   | 500       |
| 557-00049   | <b>TAGH73-336</b>    | TAGH73  | Spirit           | Type 336, Polyester, white           | 2.0"  | 1.0"   | 250       |
| 557-00050   | <b>TAGH73-3364</b>   | TAGH73  | Spirit           | Type 3364, Polyester, yellow         | 2.0"  | 1.0"   | 250       |
| 557-00044   | <b>TAGH27-336</b>    | TAGH27  | Spirit           | Type 336, Polyester, white           | 1.5"  | .75"   | 500       |
| 557-00031   | <b>TAGH27-799-SR</b> | TAGH27  | Spirit           | Type 799, Polyester, silver matte    | 1.5"  | .75"   | 500       |
| 557-00051   | <b>TAGH75-336</b>    | TAGH75  | Spirit           | Type 336, Polyester, white           | 2.0"  | .625"  | 500       |
| 557-00052   | <b>TAGH75-3364</b>   | TAGH75  | Spirit           | Type 3364, Polyester, yellow         | 2.0"  | .625"  | 500       |
| 594-54788   | <b>TAG54L-788</b>    | TAG54L  | Laser            | Type 788, Polyethylene Terephthalate | 8.50" | 5.50"  | 500       |
| 594-55788   | <b>TAG55L-788</b>    | TAG55L  | Laser            | Type 788, Polyethylene Terephthalate | 4.25" | 5.50"  | 1000      |
| 594-56788   | <b>TAG56L-788</b>    | TAG56L  | Laser            | Type 788, Polyethylene Terephthalate | 4.0"  | 3.33"  | 1500      |
| 594-57788   | <b>TAG57L-788</b>    | TAG57L  | Laser            | Type 788, Polyethylene Terephthalate | 4.25" | 2.75"  | 2000      |
| 594-58788   | <b>TAG58L-788</b>    | TAG58L  | Laser            | Type 788, Polyethylene Terephthalate | 4.0"  | 2.0"   | 2500      |
| 593-56108   | <b>TAG56J-108</b>    | TAG56J  | Ink Jet          | Type 108, Ink Jet white paper        | 3.33" | 4.0"   | 1500      |
| 593-59108   | <b>TAG59J-108</b>    | TAG59J  | Ink Jet          | Type 108, Ink Jet white paper        | 4.0"  | 1.50"  | 3500      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Splice Labels and Ground-Bonding Labeling

The TIA-606-A standard refers to labels that are applied to the primary Telecommunications Main Grounding Busbar (TMGB) and any Telecommunications Grounding Busbars (TGB's) that may be linked in sequence. The polyester labels are great for flat surfaces that require a high bond for a lifetime of performance to mark splice locations or grounding hardware.

Product Selection

| Article No. | Part No.           | Type    | Printer Type     | Material                             | Width | Height | Pkg. Qty. |
|-------------|--------------------|---------|------------------|--------------------------------------|-------|--------|-----------|
| 596-27822   | <b>TAG27T1-822</b> | TAG27T1 | Thermal Transfer | Type 822, Polyester, white           | 1.5"  | .75"   | 3000      |
| 596-73822   | <b>TAG73T1-822</b> | TAG73T1 | Thermal Transfer | Type 822, Polyester, white           | 2.0"  | 1.0"   | 3000      |
| 595-27400   | <b>TAG27-400</b>   | TAG27   | DM               | Type 400, Polyester, white           | 1.5"  | .75"   | 5000      |
| 595-45400   | <b>TAG45-400</b>   | TAG45   | DM               | Type 400, Polyester, white           | 4.0"  | .80"   | 5000      |
| 593-28450   | <b>TAG28J-450</b>  | TAG28J  | Ink Jet          | Type 450, Polyethylene Terephthalate | .80"  | 1.437" | 1000      |

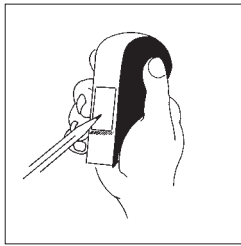
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Rite-On Markers

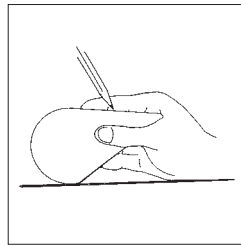
HellermannTyton's Rite-On Markers are made from a flexible vinyl film and are used to mark wire and cable. The self-laminating labels have a clear tail which seals the legend under clear vinyl, maintaining the quality of the labels. The Rite-On markers are packaged in a reuseable dispenser made from high-impact plastic which is resistant to oils and grease.

### Product Features

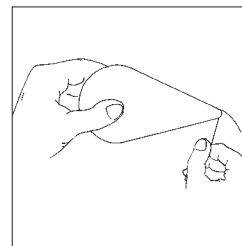
- Easily and conveniently fits in a pants or shirt pocket.
- Once loaded, unit allows minimal label exposure to dust and moisture.
- Can be used with standard ball point pens or HellermannTyton nylon marking pens.
- Excess liner is easily cut-off by tearing it over the edge guide at the front of the unit.
- The dispenser can be reloaded over and over again, making it a cost-effective and efficient method of labeling.



*A special label window holds the label firm for easy marking.*



*Can be held easily in the palm of the hand to provide a flat writing surface.*



*Label dispenses automatically when the liner is pulled from the front of the unit.*

### Product Selection

| Article No. | Part No.       | Type    | Width<br>in. (mm) | Height of<br>Write-On Area<br>in. (mm) | Height of Label<br>in. (mm) | Wire Size Range<br>(AWG) | Min. Wire Size<br>(in <sup>2</sup> ) | Markers<br>per Roll | Pkg.<br>Qty. |
|-------------|----------------|---------|-------------------|----------------------------------------|-----------------------------|--------------------------|--------------------------------------|---------------------|--------------|
| 590-01750   | <b>RO175</b>   | RO175   | .750" (19.05)     | .750" (19.05)                          | 3.000" (76.20)              | 4 to 4/0                 | .330                                 | 90                  | 1 roll       |
| 590-05120   | <b>RO512</b>   | RO512   | .750" (19.05)     | .500" (12.70)                          | 1.875" (47.62)              | 8 to 4 AWG               | .263                                 | 150                 | 1 roll       |
| 590-05140   | <b>RO514</b>   | RO514   | .750" (19.05)     | .375" (9.52)                           | 1.250" (31.75)              | 14 to 8 AWG              | .053                                 | 200                 | 1 roll       |
| 590-10000   | <b>RO175WP</b> | RO175WP | .750" (19.05)     | .750" (19.05)                          | 3.000" (76.20)              | 4 to 4/0                 | .330                                 | 90                  | 1 roll       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Rite-On Markers *continued*

## Refill Rolls

| Product Selection |               |          |               |                         |                 |                  |           |
|-------------------|---------------|----------|---------------|-------------------------|-----------------|------------------|-----------|
| Article No.       | Part No.      | Type     | Width         | Height of Write-On Area | Height of Label | Markers per Roll | Pkg. Qty. |
|                   |               |          | in. (mm)      | in. (mm)                | in. (mm)        |                  |           |
| 590-01751         | <b>175REF</b> | 175REF   | .750" (19.05) | .750" (19.05)           | 3.000" (76.20)  | 40               | 1 roll    |
| 590-05121         | <b>512REF</b> | RO512REF | .750" (19.05) | .500" (12.70)           | 1.875" (47.62)  | 40               | 1 roll    |
| 590-05141         | <b>514REF</b> | 514REF   | .750" (19.05) | .375" (9.52)            | 1.250" (31.75)  | 40               | 1 roll    |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Nylon Marking Pens

When used with a non-smear FTP nylon marking pen, marking is fast and economical.

| Product Selection |              |         |       |           |
|-------------------|--------------|---------|-------|-----------|
| Article No.       | Part No.     | Type    | Color | Pkg. Qty. |
| 500-50822         | <b>T82-R</b> | T82R-RD | Red   | 2 pens    |
| 500-50820         | <b>T82-S</b> | T82S-BK | Black | 2 pens    |

Use **Part No.** for ordering and **Type** for specification purposes.



The Rite-On markers are ideal for temporary identification of wire and cables and a great way to keep track of cables prior to cutting to intended length during installation.

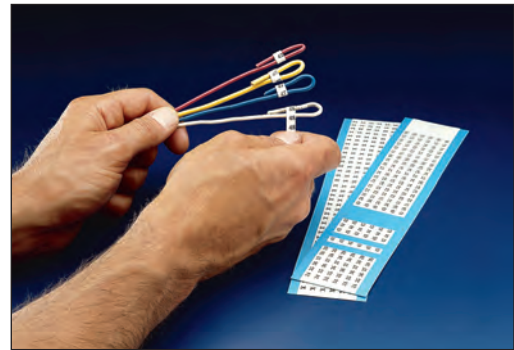
## Termination Position Labeling

### Handi-Cards

HellermannTyton Handi-Cards are easy-release markers on a plastic card. They feature a strong adhesive which assures a long lasting bond on wire. Permanent, pre-printed legends are available in solid or sequence order.

#### Sequence Handi-Cards

Each marker on the card contains a different number or letter.



Sequence card

#### Product Selection

| Article No. | Part No.         | Type      | Description | Labels per Sheet | Pkg. Qty. |
|-------------|------------------|-----------|-------------|------------------|-----------|
| 598-00003   | <b>TYHC1-33</b>  | TYHC      | Handi-Cards | 33               | 25        |
| 598-00004   | <b>TYHC34-66</b> | TYHC34-66 | Handi-Cards | 33               | 25        |
| 598-00005   | <b>TYHC67-99</b> | TYHC67-99 | Handi-Cards | 33               | 25        |
| 598-00190   | <b>TYHCA-Z</b>   | TYHCA-Z   | Handi-Cards | 36               | 25        |

Use **Part No.** for ordering and **Type** for specification purposes.

### Solid Handi-Cards

Each marker on the card contains the same legend.

#### Product Selection

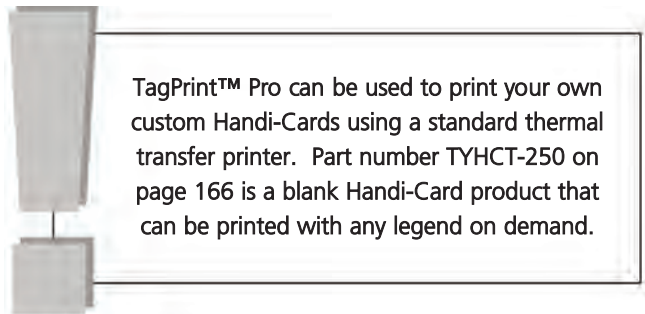
| Article No. | Part No.         | Type      | Description | Labels per Sheet | Pkg. Qty. |
|-------------|------------------|-----------|-------------|------------------|-----------|
| 598-00003   | <b>TYHC1-33</b>  | TYHC      | Handi-Cards | 33               | 25        |
| 598-00004   | <b>TYHC34-66</b> | TYHC34-66 | Handi-Cards | 33               | 25        |
| 598-00005   | <b>TYHC67-99</b> | TYHC67-99 | Handi-Cards | 33               | 25        |
| 598-00007   | <b>TYHC0</b>     | TYHC0     | Handi-Cards | 36               | 25        |
| 598-00019   | <b>TYHC1</b>     | TYHC1     | Handi-Cards | 36               | 25        |
| 598-00022   | <b>TYHC2</b>     | TYHC2     | Handi-Cards | 36               | 25        |
| 598-00023   | <b>TYHC3</b>     | TYHC3     | Handi-Cards | 36               | 25        |
| 598-00024   | <b>TYHC4</b>     | TYHC4     | Handi-Cards | 36               | 25        |
| 598-00025   | <b>TYHC5</b>     | TYHC5     | Handi-Cards | 36               | 25        |
| 598-00027   | <b>TYHC6</b>     | TYHC6     | Handi-Cards | 36               | 25        |
| 598-00028   | <b>TYHC7</b>     | TYHC7     | Handi-Cards | 36               | 25        |
| 598-00029   | <b>TYHC8</b>     | TYHC8     | Handi-Cards | 36               | 25        |
| 598-00030   | <b>TYHC9</b>     | TYHC9     | Handi-Cards | 36               | 25        |
| 598-00189   | <b>TYHCA</b>     | TYHCA     | Handi-Cards | 36               | 25        |
| 598-00196   | <b>TYHCB</b>     | TYHCB     | Handi-Cards | 36               | 25        |
| 598-00199   | <b>TYHCC</b>     | TYHCC     | Handi-Cards | 36               | 25        |
| 598-00202   | <b>TYHCD</b>     | TYHCD     | Handi-Cards | 36               | 25        |
| 598-00204   | <b>TYHCE</b>     | TYHCE     | Handi-Cards | 36               | 25        |
| 598-00212   | <b>TYHCF</b>     | TYHCF     | Handi-Cards | 36               | 25        |
| 598-00215   | <b>TYHCG</b>     | TYHCG     | Handi-Cards | 36               | 25        |
| 598-00218   | <b>TYHCH</b>     | TYHCH     | Handi-Cards | 36               | 25        |
| 598-00306   | <b>TYHCI</b>     | TYHCI     | Handi-Cards | 36               | 25        |
| 598-00307   | <b>TYHCJ</b>     | TYHCJ     | Handi-Cards | 36               | 25        |
| 598-00223   | <b>TYHCK</b>     | TYHCK     | Handi-Cards | 36               | 25        |
| 598-00224   | <b>TYHCL</b>     | TYHCL     | Handi-Cards | 36               | 25        |
| 598-00225   | <b>TYHCL1</b>    | TYHCL1    | Handi-Cards | 36               | 25        |

Use **Part No.** for ordering and **Type** for specification purposes.

Handi-Cards *continued*

| Product Selection |          |        |             |                  |           |
|-------------------|----------|--------|-------------|------------------|-----------|
| Article No.       | Part No. | Type   | Description | Labels per Sheet | Pkg. Qty. |
| 598-00226         | TYHCL2   | TYHCL2 | Handi-Cards | 36               | 25        |
| 598-00227         | TYHCL3   | TYHCL3 | Handi-Cards | 36               | 25        |
| 598-00229         | TYHCM    | TYHCM  | Handi-Cards | 36               | 25        |
| 598-00230         | TYHCN    | TYHCN  | Handi-Cards | 36               | 25        |
| 598-00231         | TYHCO    | TYHCO  | Handi-Cards | 36               | 25        |
| 598-00234         | TYHCP    | TYHCP  | Handi-Cards | 36               | 25        |
| 598-00236         | TYHCQ    | TYHCQ  | Handi-Cards | 36               | 25        |
| 598-00237         | TYHCR    | TYHCR  | Handi-Cards | 36               | 25        |
| 598-00239         | TYHCS    | TYHCS  | Handi-Cards | 36               | 25        |
| 598-00242         | TYHCT    | TYHCT  | Handi-Cards | 36               | 25        |
| 598-00243         | TYHCT2   | TYHCT2 | Handi-Cards | 36               | 25        |
| 598-00246         | TYHCU    | TYHCU  | Handi-Cards | 36               | 25        |
| 598-00247         | TYHCV    | TYHCV  | Handi-Cards | 36               | 25        |
| 598-00248         | TYHCW    | TYHCW  | Handi-Cards | 36               | 25        |
| 598-00250         | TYHCX    | TYHCX  | Handi-Cards | 36               | 25        |
| 598-00251         | TYHCY    | TYHCY  | Handi-Cards | 36               | 25        |
| 598-00252         | TYHCZ    | TYHCZ  | Handi-Cards | 36               | 25        |
| 598-00253         | TYHC+    | TYHC+  | Handi-Cards | 36               | 25        |
| 598-00254         | TYHC-    | TYHC-  | Handi-Cards | 36               | 25        |
| 598-00255         | TYHC/    | TYHC/  | Handi-Cards | 36               | 25        |
| 598-00278         | TYHCT3   | TYHCT3 | Handi-Cards | 36               | 25        |
| 598-00311         | TYHCT1   | TYHCT1 | Handi-Cards | 36               | 25        |

Use **Part No.** for ordering and **Type** for specification purposes.



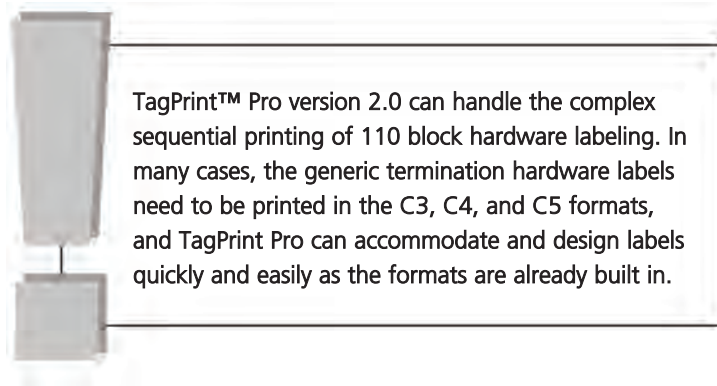
## Termination Hardware Labeling

HellermannTyton's line of termination hardware labels features non-adhesive paper labels used to mark 110 wiring blocks. Color coded to meet ANSI/TIA/EIA-606-A specifications, they come on pin-fed sheets to be used on dot matrix printers; however, the pin-fed margins also can be removed for use in laser printers.



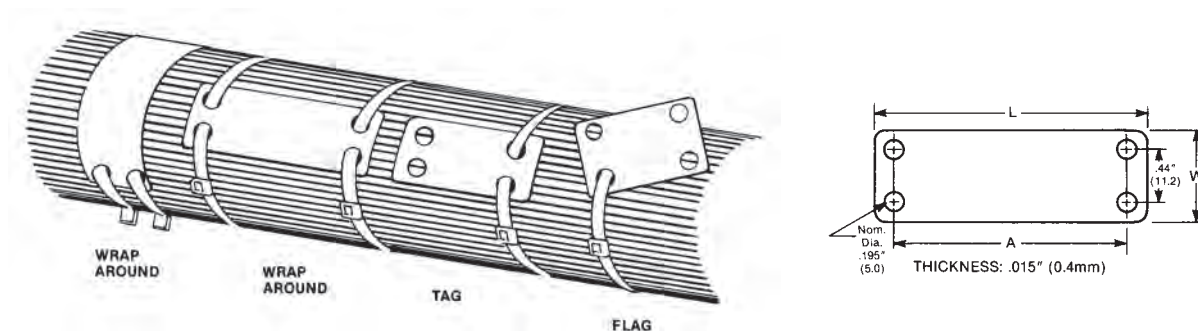
| Product Selection |                 |        |       |        |        |           |
|-------------------|-----------------|--------|-------|--------|--------|-----------|
| Article No.       | Part No.        | Type   | Width | Length | Color  | Pkg. Qty. |
| 595-00114         | <b>TAG110OR</b> | TAG110 | 7.9"  | .475"  | Orange | 1000      |
| 595-00112         | <b>TAG110GR</b> | TAG110 | 7.9"  | .475"  | Green  | 1000      |
| 595-00115         | <b>TAG110PL</b> | TAG110 | 7.9"  | .475"  | Purple | 1000      |
| 595-00113         | <b>TAG110GY</b> | TAG110 | 7.9"  | .475"  | Gray   | 1000      |
| 595-00110         | <b>TAG110BL</b> | TAG110 | 7.9"  | .475"  | Blue   | 1000      |
| 595-00111         | <b>TAG110BR</b> | TAG110 | 7.9"  | .475"  | Brown  | 1000      |
| 595-00118         | <b>TAG110YL</b> | TAG110 | 7.9"  | .475"  | Yellow | 1000      |
| 595-00116         | <b>TAG110RD</b> | TAG110 | 7.9"  | .475"  | Red    | 1000      |
| 595-00117         | <b>TAG110WT</b> | TAG110 | 7.9"  | .475"  | White  | 1000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Identification Marker Plates

Identification marker plates can be mounted in any direction, either vertically or horizontally as flags, tags, or wraparound identification plates. They can be marked with HellermannTyton marking pen (Part Number FTP) or hot stamped. These marker plates are manufactured from nylon and are white.



| Product Selection               |                 |         |                       |                          |                        |              |
|---------------------------------|-----------------|---------|-----------------------|--------------------------|------------------------|--------------|
| Article No.                     | Part No.        | Type    | Width (W)<br>in. (mm) | Width 2 (W2)<br>in. (mm) | Length (L)<br>in. (mm) | Pkg.<br>Qty. |
| T18 Series thru T50 Series Ties |                 |         |                       |                          |                        |              |
| 151-42159                       | IMP1.510C2      | IMP1.5  | 1.5" (19.10)          | 1.03" (26.2)             | .75" (38.1)            | 100          |
| 151-00238                       | IMP1.510M4      | IMP1.5  | 1.5" (19.10)          | 1.03" (26.2)             | .75" (38.1)            | 1000         |
| 151-00236                       | IMP1.7510C2     | IMP1.75 | 1.75" (44.50)         | 1.28" (26.2)             | .75" (19.1)            | 100          |
| 151-00237                       | IMP1.7510M4     | IMP1.75 | 1.75" (44.50)         | 1.28" (26.2)             | .75" (19.1)            | 1000         |
| 151-42229                       | IMP210C2        | IMP2    | 2.0" (50.80)          | 1.53" (38.9)             | .75" (19.01)           | 100          |
| 151-00239                       | IMP210M4        | IMP210  | 2.0" (50.80)          | 1.53" (38.9)             | .75" (19.01)           | 1000         |
| 151-42259                       | IMP2.510C2      | IMP2.5  | 2.5" (63.50)          | 2.03" (51.6)             | .75" (19.01)           | 100          |
| 151-00240                       | IMP2.510M4      | IMP2.5  | 2.5" (63.50)          | 2.03" (51.6)             | .75" (19.01)           | 1000         |
| 151-42359                       | IMP3.510C2      | IMP3.5  | 3.5" (88.90)          | 3.03" (77.0)             | .75" (19.01)           | 100          |
| 151-00241                       | IMP3.510M4      | IMP3.5  | 3.5" (88.90)          | 3.03" (77.0)             | .75" (19.01)           | 1000         |
| 151-42269                       | IMP2.5W1.7510C2 | IMP2.5  | 2.5" (63.50)          | 2.03" (51.6)             | 1.75" (44.45)          | 100          |
| 151-00242                       | IMP2.5W1.7510H4 | IMP2.5  | 2.5" (63.50)          | 2.03" (51.6)             | 1.75" (44.45)          | 500          |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Handi-Paks

Convenient pocket-sized booklets. Black non-smear legends on a white background. Plastic-coated cloth material remains flexible. Strong adhesive assures firm bond on wire.



| Product Selection |               |        |                                                                                                                             |           |
|-------------------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------|-----------|
| Article No.       | Part No.      | Type   | Description                                                                                                                 | Pkg. Qty. |
| 598-00260         | <b>TCWM1</b>  | TCWM1  | 45 markers each of legends 0-9                                                                                              | 1 booklet |
| 598-00261         | <b>TCWM2</b>  | TCWM2  | 10 markers each of A-Z, 1-15, +, -, /                                                                                       | 1 booklet |
| 598-00262         | <b>TCWM3</b>  | TCWM3  | 10 markers each 1-45                                                                                                        | 1 booklet |
| 598-00263         | <b>TCWM4</b>  | TCWM4  | 150 markers each 1,2,3                                                                                                      | 1 booklet |
| 598-00264         | <b>TCWM5</b>  | TCWM5  | 150 markers each A,B, and C.                                                                                                | 1 booklet |
| 598-00265         | <b>TCWM6</b>  | TCWM6  | 150 markers each T1, T2 and T3                                                                                              | 1 booklet |
| 598-00266         | <b>TCWM7</b>  | TCWM7  | 150 markers each L1, L2 and L3                                                                                              | 1 booklet |
| 598-00267         | <b>TCWM8</b>  | TCWM8  | 6 markers each 1-15, 4 markers each 16-90 and 2 markers each of A-Z, +, -, /                                                | 1 booklet |
| 598-00268         | <b>TCWM9</b>  | TCWM9  | 45 markers each of 1,2,3,A,B,C, 30 markers each of L1, L2 and L3 and 30 markers each of T1, T2 and T3                       | 1 booklet |
| 598-00269         | <b>TCWM10</b> | TCWM10 | 45 markers each of 10 NEMA colors.                                                                                          | 1 booklet |
| 598-00270         | <b>TCWM11</b> | TCWM11 | 15 markers each of 1-30                                                                                                     | 1 booklet |
| 598-00271         | <b>TCWM12</b> | TCWM12 | 15 markers each of A-Z, 21 markers blank, 8 markers +, and 7 markers -.                                                     | 1 booklet |
| 598-00272         | <b>TCWM13</b> | TCWM13 | 45 markers each of +, -, AC, DC, 33 markers each of POS, NEG and GND. 27 markers of NEUT and 21 markers of SPARE and BLANK. | 1 booklet |
| 598-00273         | <b>TCWM14</b> | TCWM14 | 45 markers each of 0-9, 15 markers each of L1, L2, L3 and 15 markers each of T1, T2 and T3.                                 | 1 booklet |
| 598-00274         | <b>TCWM15</b> | TCWM15 | 10 markers each of 46-90.                                                                                                   | 1 booklet |
| 598-00275         | <b>TCWM16</b> | TCWM16 | 10 markers each of 1-33, A, B, C, +, -, T1, T2, T3, L1, L2 and L3.                                                          | 1 booklet |

Use **Part No.** for ordering and **Type** for specification purposes.

## Tags

**A. "Caution" Write-On Laminating Tags** - Clear, self-laminating plastic flap that permanently protects the wiring and data marked on the tag. Orange or yellow, printed with black text. Write on them with a permanent pen (FTP1). Attach using standard cable ties.

**B. Generic Write-On Tags** - Self-laminating, clear plastic flap permanently seals in the written information. Orange with black pre-printed lines. Write on them with a permanent pen (FTP1). Attach using standard cable ties.

**C. Cable Write-On Tags** - Self-laminating clear plastic flap permanently seals in the written information. Print the cable number, destination, source, and fiber count. Orange with black text. Mark with a permanent pen (FTP1) for optimum results. Attach with standard cable tie.

**D. Adhesive Write-On Labels** - Self-laminating clear plastic flap permanently seals in the written information. Attach laminated information using the adhesive backing. Orange with black text. Mark with permanent pen (FTP1).

**E. Ground Wire Tags** - A warning not to disconnect or remove ground wire. Orange with black text.

| Product Selection                     |           |         |       |        |        |           |
|---------------------------------------|-----------|---------|-------|--------|--------|-----------|
| Article No.                           | Part No.  | Type    | Width | Length | Color  | Pkg. Qty. |
| A. "Caution" Write-On Laminating Tags |           |         |       |        |        |           |
| 597-00030                             | CT2003X2  | CT2003  | 3.5"  | 2.0"   | Orange | 25        |
| 597-00031                             | CT2012X2  | CT2012  | 3.5"  | 2.2"   | Orange | 25        |
| B. Generic Write-On Tags              |           |         |       |        |        |           |
| 597-00032                             | CT0753X2  | CT0753  | 3.0"  | .75"   | Orange | 25        |
| 597-00033                             | CT1503X2  | CT1503  | 4.0"  | 1.5"   | Orange | 25        |
| C. Cable Write-On Tags                |           |         |       |        |        |           |
| 597-00034                             | WC1503X2  | WC1503  | 4.0"  | 1.5"   | Orange | 25        |
| D. Adhesive Write-On Labels           |           |         |       |        |        |           |
| 597-00035                             | CTA0753X2 | CTA0753 | 3.0"  | .75"   | Orange | 25        |
| 597-00036                             | CTA1503X2 | CTA1503 | 4.0"  | 1.5"   | Orange | 25        |
| E. Ground Wire Tags                   |           |         |       |        |        |           |
| 597-00037                             | GWT003X2  | GW      | 3.0"  | 1.5"   | Orange | 25        |
| 597-00038                             | GWC003X2  | GW      | 3.0"  | 1.5"   | Orange | 25        |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Fiber Optic Cable Markers

Manufactured from .05" thick polyethylene. Secure with standard cable ties. Use with a permanent felt tip marker.

Temperature Range: -150° F to 150° F



Product Selection

| Article No. | Part No.       | Type | Width | Length | Color  | Pkg. Qty. |
|-------------|----------------|------|-------|--------|--------|-----------|
| 597-00039   | <b>FOM-75</b>  | FOM  | 1.5"  | .75"   | Orange | 25        |
| 597-00040   | <b>FOM-150</b> | FOM  | 2.25" | 1.5"   | Orange | 25        |
| 597-00041   | <b>FOM-175</b> | FOM  | 3.5"  | 1.75"  | Orange | 25        |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Fiber Mark Cable Markers

Non-adhesive identification system for fiber optic cable. Produced from heavy-duty, precoiled plastic, Fiber Mark cable markers can be uncoiled, then snapped into place. The text is protected by a thick layer of clear acrylic which provides UV protection and abrasion resistance. For more information on customized legends, contact HellermannTyton.



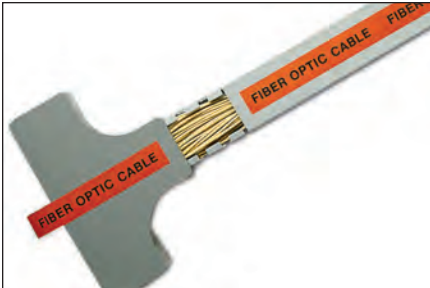
Product Selection

| Article No. | Part No.      | Type | Length | Cable Diameter (mm)             | Color  | Pkg. Qty. |
|-------------|---------------|------|--------|---------------------------------|--------|-----------|
| 597-00042   | <b>CMFO4</b>  | CMF  | 5.0"   | .490" - 1.0" (12.44mm - 25.4mm) | Orange | 25        |
| 597-00043   | <b>CMFO72</b> | CMF  | 2.8"   | .490" - 1.0" (12.44mm - 25.4mm) | Orange | 25        |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Fiber Optic Cable Tape

Designed to be used on the Lightguide Fiber Optic Protection System to identify the routing of fiber optic cable. It is a 1" wide range vinylwith black lettering which states, "FIBER OPTIC CABLE." The legend is repeated every six inches.



| Product Selection                                                                                                                         |          |       |        |                                  |        |           |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------|----------------------------------|--------|-----------|
| Article No.                                                                                                                               | Part No. | Type  | Length | Operating Temperature            | Color  | Pkg. Qty. |
| 597-00044                                                                                                                                 | TFOT1    | TFOT1 | 648"   | -20°F to +200°F (-29°C to +93°C) | Orange | 1         |
| Dimensions are approximate and subject to technical changes. Use <b>Part No.</b> for ordering and <b>Type</b> for specification purposes. |          |       |        |                                  |        |           |

# CABLE MANAGEMENT ACCESSORIES

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

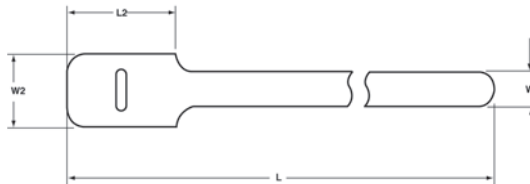
|                          |         |
|--------------------------|---------|
| Grip Tie Straps          | 208-212 |
| Cable Ties               | 213-220 |
| Mechanical Cable Tools   | 221     |
| Cable Tie Mounting Bases | 222-223 |
| Nail Clips               | 224     |
| Convuluted Tubing        | 225-226 |



## Grip Tie Straps

The Grip Tie is a low profile, one-piece fastening device. Constructed of polyethylene hook and nylon loop and laminated back-to-back, the Grip Tie features quick release for repetitive access to cable and wire. It can be opened and closed numerous times without failure. The Grip Tie is reusable, adjustable, releasable, and easy to install.

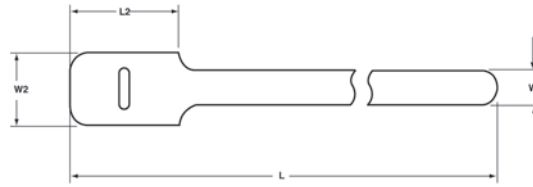
Available in rolls and straps in 6", 8", 11" and 15" sizes. Grip Ties are available in a variety of colors and are versatile enough for applications ranging from network installations to bundling power cords. Grip Ties are also customizable with your company name (minimum quantities apply).



### Product Selection

| Product Selection |             |          |                          |            |               |           |            |             |        |           |
|-------------------|-------------|----------|--------------------------|------------|---------------|-----------|------------|-------------|--------|-----------|
| Article No.       | Part No.    | Type     | Minimum Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Width (W2) | Length (L2) | Color  | Pkg. Qty. |
| 6" Grip Ties      |             |          |                          |            |               |           |            |             |        |           |
| 854-44316         | GT.375X60C2 | GT.375X6 | 40 lbs                   | 6"         | 1"            | .375"     | .75"       | 1.5"        | Black  | 100       |
| 854-44339         | GT.50X60P2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        |        | 10        |
| 854-44336         | GT.50X60C2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44342         | GT.50X62P2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        | Red    | 10        |
| 854-44341         | GT.50X62C2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44344         | GT.50X63P2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        | Orange | 10        |
| 854-44343         | GT.50X63C2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44346         | GT.50X64P2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        | Yellow | 10        |
| 854-44345         | GT.50X64C2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44348         | GT.50X65P2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        | Green  | 10        |
| 854-44347         | GT.50X65C2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44350         | GT.50X66P2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        | Blue   | 10        |
| 854-44349         | GT.50X66C2  | GT.50X6  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        |        | 100       |
| 8" Grip Ties      |             |          |                          |            |               |           |            |             |        |           |
| 854-44355         | GT.50X80P2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        | Black  | 10        |
| 854-44353         | GT.50X80C2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44358         | GT.50X82P2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        | Red    | 10        |
| 854-44357         | GT.50X82C2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44360         | GT.50X83P2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        | Orange | 10        |
| 854-44359         | GT.50X83C2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44362         | GT.50X84P2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        | Yellow | 10        |
| 854-44361         | GT.50X84C2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44364         | GT.50X85P2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        | Green  | 10        |
| 854-44363         | GT.50X85C2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44366         | GT.50X86P2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        | Blue   | 10        |
| 854-44365         | GT.50X86C2  | GT.50X8  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        |        | 100       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Grip Tie Straps *continued*

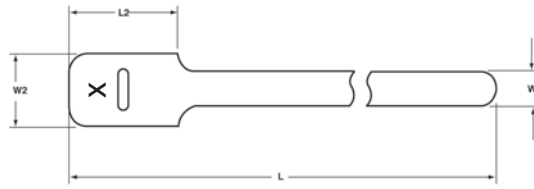
## Product Selection

| Product Selection |             |          |                          |            |               |           |            |             |        |           |
|-------------------|-------------|----------|--------------------------|------------|---------------|-----------|------------|-------------|--------|-----------|
| Article No.       | Part No.    | Type     | Minimum Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Width (W2) | Length (L2) | Color  | Pkg. Qty. |
| 11" Grip Ties     |             |          |                          |            |               |           |            |             |        |           |
| 854-44320         | GT.50X110P2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        | Black  | 10        |
| 854-44317         | GT.50X110C2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44323         | GT.50X112P2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        | Red    | 10        |
| 854-44322         | GT.50X112C2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44325         | GT.50X113P2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        | Orange | 10        |
| 854-44324         | GT.50X113C2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44327         | GT.50X114P2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        | Yellow | 10        |
| 854-44326         | GT.50X114C2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44329         | GT.50X115P2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        | Green  | 10        |
| 854-44328         | GT.50X115C2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        |        | 100       |
| 854-44331         | GT.50X116P2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        | Blue   | 10        |
| 854-44330         | GT.50X116C2 | GT.50X11 | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        |        | 100       |
| 15" Grip Ties     |             |          |                          |            |               |           |            |             |        |           |
| 854-44371         | GT.75X150P2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        | Black  | 10        |
| 854-44369         | GT.75X150C2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        |        | 100       |
| 854-44374         | GT.75X152P2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        | Red    | 10        |
| 854-44373         | GT.75X152C2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        |        | 100       |
| 854-44376         | GT.75X153P2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        | Orange | 10        |
| 854-44375         | GT.75X153C2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        |        | 100       |
| 854-44377         | GT.75X154C2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        | Yellow | 100       |
| 854-44378         | GT.75X154P2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        |        | 10        |
| 854-44380         | GT.75X155P2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        | Green  | 10        |
| 854-44379         | GT.75X155C2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        |        | 100       |
| 854-44382         | GT.75X156P2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        | Blue   | 10        |
| 854-44381         | GT.75X156C2 | GT.75X15 | 50 lbs                   | 15"        | 3.88"         | .75"      | 1.5"       | 2.5"        |        | 100       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Grip Tie Assortment Pack

For a variety of Grip Ties, an assortment pack containing the four different sizes and six different colors is available.



Drawing reflects the 8" size Grip Tie. The head contains an "x" cut out for screw applications.

### Product Selection

| Article No. | Part No. | Type   | Description                                                                                                                                                                                                                                     |
|-------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 854-44448   | GTASST   | GTASST | One (1) Orange 6" Grip Tie (GT.50X63)<br>One (1) Yellow 6" Grip Tie (GT.50X64)<br>One (1) Blue 8" Grip Tie (GT.50X86)<br>One (1) Black 8" Grip Tie (GT.50X80)<br>One (1) Green 11" Grip Tie (GT.50X115)<br>One (1) Red 15" Grip Tie (GT.75X152) |

Use **Part No.** for ordering and **Type** for specification purposes.

## Grip Tie Rolls

For custom-cut lengths, HellermannTyton offers the hook and loop strap on a five yard and 25-yard roll. Ideal for job site applications, desired lengths can be cut on the spot.



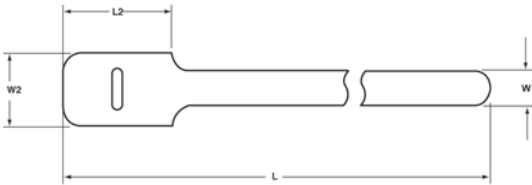
### Product Selection

| Article No. | Part No.    | Type      | Width | Length | Metric Length | Color  | Pkg. Qty. |
|-------------|-------------|-----------|-------|--------|---------------|--------|-----------|
| 854-44384   | GT.75X1800  | GT.75X180 | .75"  | 180"   | (5 Yds.)      | Black  | 1         |
| 854-44388   | GT.75X1802  | GT.75X180 | .75"  | 180"   | (5 Yds.)      | Red    | 1         |
| 854-44389   | GT.75X1803  | GT.75X180 | .75"  | 180"   | (5 Yds. )     | Orange | 1         |
| 854-44390   | GT.75X1804  | GT.75X180 | .75"  | 180"   | (5 Yds.)      | Yellow | 1         |
| 854-44391   | GT.75X1805  | GT.75X180 | .75"  | 180"   | (5 Yds.)      | Green  | 1         |
| 854-44392   | GT.75X1806  | GT.75X180 | .75"  | 180"   | (5 Yds.)      | Blue   | 1         |
| 854-44387   | GT.75X18010 | GT.75X180 | .75"  | 180"   | (5 Yds.)      | White  | 1         |
| 854-44395   | GT.75X6000  | GT.75X600 | .75"  | 600"   | (16.67 Yds.)  | Black  | 1         |
| 854-44396   | GT.75X9000  | GT.75X900 | .75"  | 900"   | (25 Yds.)     | Black  | 1         |
| 854-44397   | GT.75X9004  | GT.75X900 | .75"  | 900"   | (25 Yds.)     | Yellow | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Write-on Grip Ties

In situations where instant identification is needed, HellermannTyton provides Grip Ties with a white write-on area. This smudge-free surface is ideal for fast and easy identification with a ballpoint pen or felt-tip marker. The write-on area is approximately 3/8"(H) x 1-1/4"(W). It is positioned in the center of the black 6", 8" and 11" straps, as well as spaced every 12" on the Grip Tie rolls.



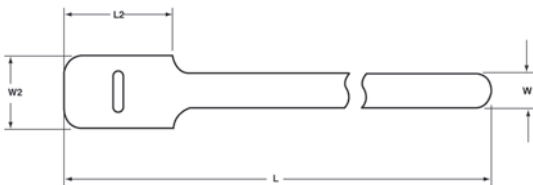
### Product Selection

| Article No. | Part No.     | Type      | Minimum Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Width (W2) | Length (L2) | Color | Pkg. Qty. |
|-------------|--------------|-----------|--------------------------|------------|---------------|-----------|------------|-------------|-------|-----------|
| 854-44340   | GT.50X60P2W  | GT.50X6W  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        | Black | 10        |
| 854-44338   | GT.50X60C2W  | GT.50X6W  | 40 lbs                   | 6"         | 1"            | .5"       | 1"         | 1.5"        | Black | 100       |
| 854-44356   | GT.50X80P2W  | GT.50X8W  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        | Black | 10        |
| 854-44354   | GT.50X80C2W  | GT.50X8W  | 40 lbs                   | 8"         | 1.75"         | .5"       | 1"         | 1.5"        | Black | 100       |
| 854-44321   | GT.50X110P2W | GT.50X11W | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        | Black | 10        |
| 854-44319   | GT.50X110C2W | GT.50X11W | 40 lbs                   | 11"        | 2.63"         | .5"       | 1"         | 1.5"        | Black | 100       |
| 854-44386   | GT.75X180W   | GT.75X180 | -                        | 180"       | -             | .75"      | -          | -           | Black | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Grip Ties for Plenum Applications

HellermannTyton offers UL94V-2 flame rated Grip Ties for use in air handling spaces. These Grip Ties are UL Listed in accordance with the National Electrical Code regulations. They are available in three lengths as well as a 180" roll.



### Product Selection

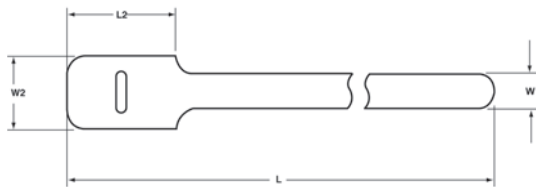
| Article No. | Part No.      | Type     | Minimum Tensile Strength | Max. Ø Bundle | Length (L) | Width (W) | Width (W2) | Length (L2) | Color  | Pkg. Qty. |
|-------------|---------------|----------|--------------------------|---------------|------------|-----------|------------|-------------|--------|-----------|
| 854-44352   | GT.50X6MP2V2  | GT.50X6  | 40 lbs                   | 1"            | 6"         | .5"       | 1"         | 1.5"        | Maroon | 10        |
| 854-44368   | GT.50X8MP2V2  | GT.50X8  | 40 lbs                   | 1.91"         | 8"         | .5"       | 1"         | 1.5"        | Maroon | 10        |
| 854-44334   | GT.50X12MP2V2 | GT.50X12 | 40 lbs                   | 3.18"         | 12"        | .5"       | 1"         | 1.5"        | Maroon | 10        |
| 854-44394   | GT.75X180MV2  | GT.75X18 | -                        | -             | 180"       | .75"      | -          | -           | Maroon | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.



## Low-Profile Grip Ties

HellermannTyton offers a lower profile self-gripping hook and loop strap. Similar to the standard Grip Ties, they are easily wrapped around a bundle and fastened onto themselves for a secure hold. The head size is twice as wide as the strap, providing added strength. The modest thickness of the back-to-back hook and loop is ideal for small areas without the worry of snagging. The head contains an "X" cut out for screw mount applications. The low-profile design is available in black in various lengths, as well as a five yard roll.



### Product Selection

| Article No. | Part No.     | Type       | Length (L) | Width (W) | Width (W2) | Length (L2) | Color | Pkg. Qty. |
|-------------|--------------|------------|------------|-----------|------------|-------------|-------|-----------|
| 854-44399   | GTLP50X60P2  | GTLP50X6   | 6"         | .5"       | 1.5"       | 1.5"        | Black | 10        |
| 854-44400   | GTLP50X80P2  | GTLP50X8   | 8"         | .5"       | 1.5"       | 1.5"        | Black | 10        |
| 854-44398   | GTLP50X110P2 | GTLP50X11  | 11"        | .5"       | 1.5"       | 1.5"        | Black | 10        |
| 854-44401   | GTLP75X1800  | GTLP75X180 | 180"       | .75"      | -          | -           | Black | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Grip Tie Mounts

To secure bundles to flat surfaces, HellermannTyton offers a mounting base to be used with the Grip Ties. Available with or without adhesive, two sizes of Grip Tie mounts cover every size of Grip Tie. The mounts are manufactured from nylon 6/6 material and are UV-stabilized for outdoor applications.



### Product Selection

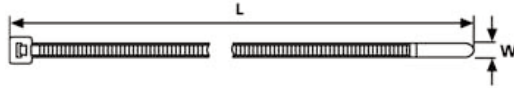
| Article No. | Part No.   | Type    | Length | Width | Mounting Method | Application                | Color | Pkg. Qty. |
|-------------|------------|---------|--------|-------|-----------------|----------------------------|-------|-----------|
| 130-95000   | GTM500C2   | GTM50   | 2.5"   | 1"    | 1/4" Screw      | GT.50X6, GT.50X8, GT.50X11 | Black | 100       |
| 130-95001   | GTM50A0C2  | GTM50A  | 2.5"   | 1"    | Adhesive        | GT.50X6, GT.50X8, GT.50X11 | Black | 100       |
| 130-91000   | GTM1000C2  | GTM100  | 3.25"  | 1.5"  | 1/4" Screw      | GT.75X15, GT Rolls         | Black | 100       |
| 130-91001   | GTM100A0C2 | GTM100A | 3.25"  | 1.5"  | Adhesive        | GT.75X15, GT Rolls         | Black | 100       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Standard Cable Ties

HellermannTyton manufactures a full line of high-quality cable ties in a variety of styles, sizes, materials, and colors. HellermannTyton cable ties are engineered and manufactured for maximum performance and quality.

### T18 - T30 Series - Natural and Black



File# E64139



File# E64139

#### Product Selection

Product Selection

| Article No. | Part No. | Type  | US Gov. Designation | Minimum Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Color   | Pkg. Qty. |
|-------------|----------|-------|---------------------|--------------------------|------------|---------------|-----------|---------|-----------|
| T18S        |          |       |                     |                          |            |               |           |         |           |
| 111-02805   | T18S9C2  | T18S  | —                   | 18 lbs                   | 3.27"      | .63"          | .09"      | Natural | 100       |
| 111-02809   | T18S9M4  | T18S  | —                   | 18 lbs                   | 3.27"      | .63"          | .09"      |         | 1000      |
| 111-02810   | T18S0C2  | T18S  | —                   | 18 lbs                   | 3.27"      | .63"          | .09"      | Black   | 100       |
| 111-02811   | T18S0M4  | T18S  | —                   | 18 lbs                   | 3.27"      | .63"          | .09"      |         | 1000      |
| T18R        |          |       |                     |                          |            |               |           |         |           |
| 112-01819   | T18R9C2  | T18R  | MS3367-4-9          | 18 lbs                   | 4"         | .87"          | .10"      | Natural | 100       |
| 111-01872   | T18R9M4  | T18R  | MS3367-4-9          | 18 lbs                   | 4"         | .87"          | .10"      |         | 1000      |
| 111-00405   | T18R0C2  | T18R  | *                   | 18 lbs                   | 4"         | .87"          | .10"      | Black   | 100       |
| 111-01841   | T18R0M4  | T18R  | *                   | 18 lbs                   | 4"         | .87"          | .10"      |         | 1000      |
| T18I        |          |       |                     |                          |            |               |           |         |           |
| 111-02311   | T18I9C2  | T18I  | —                   | 18 lbs                   | 5.51"      | 1.38"         | .10"      | Natural | 100       |
| 111-02322   | T18I9M4  | T18I  | —                   | 18 lbs                   | 5.51"      | 1.38"         | .10"      |         | 1000      |
| 111-02308   | T18I0C2  | T18I  | —                   | 18 lbs                   | 5.51"      | 1.38"         | .10"      | Black   | 100       |
| 111-02315   | T18I0M4  | T18I  | —                   | 18 lbs                   | 5.51"      | 1.38"         | .10"      |         | 1000      |
| T18L        |          |       |                     |                          |            |               |           |         |           |
| 111-02189   | T18L9C2  | T18L  | —                   | 18 lbs                   | 8.0"       | 2.17"         | .10"      | Natural | 100       |
| 111-02026   | T18L9M4  | T18L  | —                   | 18 lbs                   | 8.0"       | 2.17"         | .10"      |         | 1000      |
| 111-00401   | T18L0C2  | T18L  | —                   | 18 lbs                   | 8.0"       | 2.17"         | .10"      | Black   | 100       |
| 111-02015   | T18L0M4  | T18L  | —                   | 18 lbs                   | 8.0"       | 2.17"         | .10"      |         | 1000      |
| T30R        |          |       |                     |                          |            |               |           |         |           |
| 112-03019   | T30R9C2  | T30R  | MS3367-5-9          | 30 lbs                   | 5.9"       | 1.38"         | .14"      | Natural | 100       |
| 111-03047   | T30R9M4  | T30R  | MS3367-5-9          | 30 lbs                   | 5.9"       | 1.38"         | .14"      |         | 1000      |
| 111-00438   | T30R0C2  | T30R  | *                   | 30 lbs                   | 5.9"       | 1.38"         | .14"      | Black   | 100       |
| 111-03034   | T30R0M4  | T30R  | *                   | 30 lbs                   | 5.9"       | 1.38"         | .14"      |         | 1000      |
| T30L        |          |       |                     |                          |            |               |           |         |           |
| 111-03325   | T30L9C2  | T30L  | —                   | 30 lbs                   | 7.48"      | 1.97"         | .14"      | Natural | 100       |
| 111-03327   | T30L9M4  | T30L  | —                   | 30 lbs                   | 7.48"      | 1.97"         | .14"      |         | 1000      |
| 111-03313   | T30L0C2  | T30L  | —                   | 30 lbs                   | 7.48"      | 1.97"         | .14"      | Black   | 100       |
| 111-03315   | T30L0M4  | T30L  | —                   | 30 lbs                   | 7.48"      | 1.97"         | .14"      |         | 1000      |
| T30LL       |          |       |                     |                          |            |               |           |         |           |
| 111-03515   | T30LL9C2 | T30LL | —                   | 30 lbs                   | 11.42"     | 3.15"         | .14"      | Natural | 100       |
| 111-03517   | T30LL9M4 | T30LL | —                   | 30 lbs                   | 11.42"     | 3.15"         | .14"      |         | 1000      |
| 111-03501   | T30LL0C2 | T30LL | —                   | 30 lbs                   | 11.42"     | 3.15"         | .14"      | Black   | 100       |
| 111-03511   | T30LL0M4 | T30LL | —                   | 30 lbs                   | 11.42"     | 3.15"         | .14"      |         | 1000      |
| T30XL       |          |       |                     |                          |            |               |           |         |           |
| 111-02900   | T30XL9C2 | T30XL | —                   | 30 lbs                   | 14.37"     | 4.13"         | .14"      | Natural | 100       |
| 111-02907   | T30XL9M4 | T30XL | —                   | 30 lbs                   | 14.37"     | 4.13"         | .14"      |         | 1000      |
| 111-02901   | T30XL0C2 | T30XL | —                   | 30 lbs                   | 14.37"     | 4.13"         | .14"      | Black   | 100       |
| 111-02903   | T30XL0M4 | T30XL | —                   | 30 lbs                   | 14.37"     | 4.13"         | .14"      |         | 1000      |

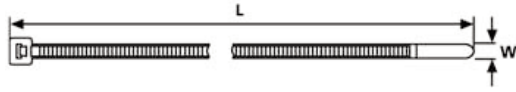
Installation tools - MK7, MK7HT, MK9, MK9HT. MK9 and MK9HT cannot be used with T18S cable ties.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

\*Military black available. Contact HellermannTyton for more information.

For product information visit [www.hellermann.tyton.com](http://www.hellermann.tyton.com) or call 800.537.1512

## T40 - T50 Series - Natural and Black



File# E64139

File# E64139

## Product Selection

| Article No. | Part No. | Type    | US Gov. Designation | Min. Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Color   | Pkg. Qty. |
|-------------|----------|---------|---------------------|-----------------------|------------|---------------|-----------|---------|-----------|
| T40R        |          |         |                     |                       |            |               |           |         |           |
| 112-04019   | T40R9C2  | T40R(U) | —                   | 40 lbs                | 8.27"      | 2.16"         | .16"      | Natural | 100       |
| 111-04131   | T40R9M4  | T40R(U) | —                   | 40 lbs                | 8.27"      | 2.16"         | .16"      |         | 1000      |
| 112-04060   | T40R0C2  | T40R(U) | —                   | 40 lbs                | 8.27"      | 2.16"         | .16"      | Black   | 100       |
| 111-04122   | T40R0M4  | T40R(U) | —                   | 40 lbs                | 8.27"      | 2.16"         | .16"      |         | 1000      |
| T40I        |          |         |                     |                       |            |               |           |         |           |
| 111-04609   | T40I9C2  | T40I    | —                   | 40 lbs                | 11.42"     | 3.15"         | .16"      | Natural | 100       |
| 111-04612   | T40I9M4  | T40I    | —                   | 40 lbs                | 11.42"     | 3.15"         | .16"      |         | 1000      |
| 111-04600   | T40I0C2  | T40I    | —                   | 40 lbs                | 11.42"     | 3.15"         | .16"      | Black   | 100       |
| 111-04604   | T40I0M4  | T40I    | —                   | 40 lbs                | 11.42"     | 3.15"         | .16"      |         | 1000      |
| T40L        |          |         |                     |                       |            |               |           |         |           |
| 111-04300   | T40L9C2  | T40L    | —                   | 40 lbs                | 14.4"      | 4.13"         | .16"      | Natural | 100       |
| 111-04311   | T40L9M4  | T40L    | —                   | 40 lbs                | 14.4"      | 4.13"         | .16"      |         | 1000      |
| 111-04301   | T40L0C2  | T40L    | —                   | 40 lbs                | 14.4"      | 4.13"         | .16"      | Black   | 100       |
| 111-04305   | T40L0M4  | T40L    | —                   | 40 lbs                | 14.4"      | 4.13"         | .16"      |         | 1000      |
| T50S        |          |         |                     |                       |            |               |           |         |           |
| 111-05811   | T50S9C2  | T50S    | —                   | 50 lbs                | 5.9"       | 1.38"         | .18"      | Natural | 100       |
| 111-05813   | T50S9M4  | T50S    | —                   | 50 lbs                | 5.9"       | 1.38"         | .18"      |         | 1000      |
| 111-05806   | T50S0C2  | T50S    | —                   | 50 lbs                | 5.9"       | 1.38"         | .18"      | Black   | 100       |
| 111-05808   | T50S0M4  | T50S    | —                   | 50 lbs                | 5.9"       | 1.38"         | .18"      |         | 1000      |
| T50R        |          |         |                     |                       |            |               |           |         |           |
| 112-05019   | T50R9C2  | T50R    | MS3367-1-9          | 50 lbs                | 7.9"       | 1.97"         | .18"      | Natural | 100       |
| 111-04862   | T50R9M4  | T50R    | MS3367-1-9          | 50 lbs                | 7.9"       | 1.97"         | .18"      |         | 1000      |
| 111-04878   | T50R0C2  | T50R    | *                   | 50 lbs                | 7.9"       | 1.97"         | .18"      | Black   | 100       |
| 111-04846   | T50R0M4  | T50R    | *                   | 50 lbs                | 7.9"       | 1.97"         | .18"      |         | 1000      |
| T50I        |          |         |                     |                       |            |               |           |         |           |
| 112-05219   | T50I9C2  | T50I    | MS3367-7-9          | 50 lbs                | 11.8"      | 3.35"         | .18"      | Natural | 100       |
| 111-05230   | T50I9M4  | T50I    | MS3367-7-9          | 50 lbs                | 11.8"      | 3.35"         | .18"      |         | 1000      |
| 111-00444   | T50I0C2  | T50I    | *                   | 50 lbs                | 11.8"      | 3.35"         | .18"      | Black   | 100       |
| 111-05216   | T50I0M4  | T50I    | *                   | 50 lbs                | 11.8"      | 3.35"         | .18"      |         | 1000      |
| T50L        |          |         |                     |                       |            |               |           |         |           |
| 112-05419   | T50L9C2  | T50L    | MS3367-2-9          | 50 lbs                | 15.35"     | 4.33"         | .18"      | Natural | 100       |
| 111-05449   | T50L9M4  | T50L    | MS3367-2-9          | 50 lbs                | 15.35"     | 4.33"         | .18"      |         | 1000      |
| 111-00445   | T50L0C2  | T50L    | *                   | 50 lbs                | 15.35"     | 4.33"         | .18"      | Black   | 100       |
| 111-00504   | T50L0M4  | T50L    | *                   | 50 lbs                | 15.35"     | 4.33"         | .18"      |         | 1000      |

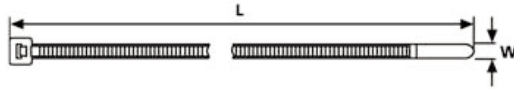
Installation tools - MK7, MK7HT, MK9, MK9HT.

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

\* Military black available. Contact HellermannTyton for more information.

## Releasable Ties

In applications that require frequent cable moves, HellermannTyton's releasable cable ties provide easy removal as well as reusability.



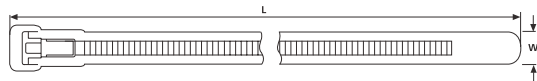
### Product Selection

| Product Selection |           |        |                       |            |               |           |         |           |
|-------------------|-----------|--------|-----------------------|------------|---------------|-----------|---------|-----------|
| Article No.       | Part No.  | Type   | Min. Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Color   | Pkg. Qty. |
| RT40R             |           |        |                       |            |               |           |         |           |
| 115-06219         | RT40R9C2  | RT40R  | 40 lbs                | 8.46"      | 2.0"          | .16"      | Natural | 100       |
| 115-06204         | RT40R9M4  | RT40R  | 40 lbs                | 8.46"      | 2.0"          | .16"      |         | 1000      |
| 115-06200         | RT40R0C2  | RT40R  | 40 lbs                | 8.46"      | 2.0"          | .16"      | Black   | 100       |
| 115-06202         | RT40R0M4  | RT40R  | 40 lbs                | 8.46"      | 2.0"          | .16"      |         | 1000      |
| RT50S             |           |        |                       |            |               |           |         |           |
| 115-06319         | RT50S9C2  | RT50S  | 50 lbs                | 6.5"       | 1.38"         | .18"      | Natural | 100       |
| 115-06304         | RT50S9M4  | RT50S  | 50 lbs                | 6.5"       | 1.38"         | .18"      |         | 1000      |
| 115-06300         | RT50S0C2  | RT50S  | 50 lbs                | 6.5"       | 1.38"         | .18"      | Black   | 100       |
| 115-00035         | RT50S0M4  | RT50S  | 50 lbs                | 6.5"       | 1.38"         | .18"      |         | 1000      |
| RT50LL            |           |        |                       |            |               |           |         |           |
| 115-06102         | RT50LL9C2 | RT50LL | 50 lbs                | 15"        | 3.98"         | .18"      | Natural | 100       |
| 115-06104         | RT50LL9M4 | RT50LL | 50 lbs                | 15"        | 3.98"         | .18"      |         | 1000      |
| 115-00039         | RT50LL0C2 | RT50LL | 50 lbs                | 15"        | 3.98"         | .18"      | Black   | 100       |
| 115-06101         | RT50LL0M4 | RT50LL | 50 lbs                | 15"        | 3.98"         | .18"      |         | 1000      |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## REL Releasable Ties

Ideal for use in applications where there is the need to repeatedly open and close the tie.



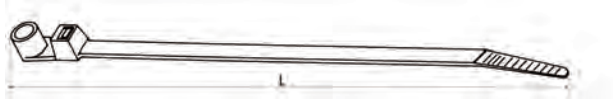
### Product Selection

| Product Selection |           |        |                       |            |               |           |         |           |
|-------------------|-----------|--------|-----------------------|------------|---------------|-----------|---------|-----------|
| Article No.       | Part No.  | Type   | Min. Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Color   | Pkg. Qty. |
| REL50R            |           |        |                       |            |               |           |         |           |
| 115-00503         | REL50R9C2 | REL50R | 50 lbs                | 5.5"       | 1.38"         | .29"      | Natural | 100       |
| 115-00505         | REL50R9L4 | REL50R | 50 lbs                | 5.5"       | 1.38"         | .29"      |         | 200       |
| 115-00500         | REL50R0C2 | REL50R | 50 lbs                | 5.5"       | 1.38"         | .29"      | Black   | 100       |
| 115-00502         | REL50R0L4 | REL50R | 50 lbs                | 5.5"       | 1.38"         | .29"      |         | 200       |
| REL50L            |           |        |                       |            |               |           |         |           |
| 115-00605         | REL50L9C2 | REL50L | 50 lbs                | 9.84"      | 2.76"         | .29"      | Natural | 100       |
| 115-00607         | REL50L9L4 | REL50L | 50 lbs                | 9.84"      | 2.76"         | .29"      |         | 200       |
| 115-00600         | REL50L0C2 | REL50L | 50 lbs                | 9.84"      | 2.76"         | .29"      | Black   | 100       |
| 115-00602         | REL50L0L4 | REL50L | 50 lbs                | 9.84"      | 2.76"         | .29"      |         | 200       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Screw Mount Ties

The mounting cable ties are a one-piece, all plastic tie for quick, simple cable mounting. Designed to fit several screw sizes and hole diameters, the mounting tie can be attached to equipment, walls, ceilings, or other surfaces.



File# E64139

### Product Selection

| Product Selection |           |        |                       |                       |            |               |       |         |           |
|-------------------|-----------|--------|-----------------------|-----------------------|------------|---------------|-------|---------|-----------|
| Article No.       | Part No.  | Type   | Mounting              | Min. Tensile Strength | Length (L) | Max. Ø Bundle | Width | Color   | Pkg. Qty. |
| T18MR             |           |        |                       |                       |            |               |       |         |           |
| 113-00026         | T18MR9C2  | T18MR  | # 4 screw             | 18 lbs                | 4.33"      | .79"          | .10"  | Natural | 100       |
| 113-00028         | T18MR9M4  | T18MR  |                       | 18 lbs                | 4.33"      | .79"          | .10"  | Natural | 1000      |
| 113-00022         | T18MR0C2  | T18MR  |                       | 18 lbs                | 4.33"      | .79"          | .10"  | Black   | 100       |
| 113-00024         | T18MR0M4  | T18MR  |                       | 18 lbs                | 4.33"      | .79"          | .10"  | Black   | 1000      |
| T30MR             |           |        |                       |                       |            |               |       |         |           |
| 113-03019         | T30MR9C2  | T30MR  | # 8 screw             | 30 lbs                | 6.30"      | 1.26"         | .14"  | Natural | 100       |
| 113-00036         | T30MR9M4  | T30MR  |                       | 30 lbs                | 6.30"      | 1.26"         | .14"  | Natural | 1000      |
| 113-03010         | T30MR0C2  | T30MR  |                       | 30 lbs                | 6.30"      | 1.26"         | .14"  | Black   | 100       |
| 113-03011         | T30MR0M4  | T30MR  |                       | 30 lbs                | 6.30"      | 1.26"         | .14"  | Black   | 1000      |
| T50MR             |           |        |                       |                       |            |               |       |         |           |
| 113-05004         | T50MR9C2  | T50MR  | # 10 screw            | 50 lbs                | 8.46"      | 1.77"         | .18"  | Natural | 100       |
| 113-05007         | T50MR9M4  | T50MR  |                       | 50 lbs                | 8.46"      | 1.77"         | .18"  | Natural | 1000      |
| 113-05000         | T50MR0C2  | T50MR  |                       | 50 lbs                | 8.46"      | 1.77"         | .18"  | Black   | 100       |
| 113-05002         | T50MR0M4  | T50MR  |                       | 50 lbs                | 8.46"      | 1.77"         | .18"  | Black   | 1000      |
| T50MRT            |           |        |                       |                       |            |               |       |         |           |
| 113-05101         | T50MRT9C2 | T50MRT | # 6-32 tap thru screw | 50 lbs                | 8.47"      | 1.77"         | .19"  | Natural | 100       |
| 113-05102         | T50MRT9M4 | T50MRT |                       | 50 lbs                | 8.47"      | 1.77"         | .19"  | Natural | 1000      |
| 113-05100         | T50MRT0C2 | T50MRT |                       | 50 lbs                | 8.47"      | 1.77"         | .19"  | Black   | 100       |
| 113-00037         | T50MRT0M4 | T50MRT |                       | 50 lbs                | 8.47"      | 1.77"         | .19"  | Black   | 1000      |
| T50MI             |           |        |                       |                       |            |               |       |         |           |
| 113-00032         | T50MI9C2  | T50MI  | # 10 screw            | 50 lbs                | 12.40"     | 3.35"         | .19"  | Natural | 100       |
| 113-00033         | T50MI9M4  | T50MI  |                       | 50 lbs                | 12.40"     | 3.35"         | .19"  | Natural | 1000      |
| 113-00038         | T50MI0C2  | T50MI  |                       | 50 lbs                | 12.40"     | 3.35"         | .19"  | Black   | 100       |
| 113-00031         | T50MI0M4  | T50MI  |                       | 50 lbs                | 12.40"     | 3.35"         | .19"  | Black   | 1000      |
| T50ML             |           |        |                       |                       |            |               |       |         |           |
| 113-05419         | T50ML9C2  | T50ML  | # 10 screw            | 50 lbs                | 15.35"     | 4.00"         | .18"  | Natural | 100       |
| 113-05403         | T50ML9M4  | T50ML  |                       | 50 lbs                | 15.35"     | 4.00"         | .18"  | Natural | 1000      |
| 113-00007         | T50ML0C2  | T50ML  |                       | 50 lbs                | 15.35"     | 4.00"         | .18"  | Black   | 100       |
| 113-00035         | T50ML0M4  | T50ML  |                       | 50 lbs                | 15.35"     | 4.00"         | .18"  | Black   | 1000      |
| T120MR            |           |        |                       |                       |            |               |       |         |           |
| 113-12029         | T120MR9K2 | T120MR | # 1/4" screw          | 120 lbs               | 15.55"     | 4.02"         | .30"  | Natural | 50        |
| 113-00018         | T120MR9H4 | T120MR |                       | 120 lbs               | 15.55"     | 4.02"         | .30"  | Natural | 500       |
| 113-12020         | T120MR0K2 | T120MR |                       | 120 lbs               | 15.55"     | 4.02"         | .30"  | Black   | 50        |
| 113-00011         | T120MR0H4 | T120MR |                       | 120 lbs               | 15.55"     | 4.02"         | .30"  | Black   | 500       |

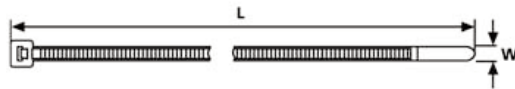
Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Ties for Plenum Applications

HellermannTyton halar and UL Listed cable ties meet NEC regulations and can be used in applications where low smoke and low flame are a concern in air handling spaces.

### Halar Cable Ties

The raw material used to manufacture HellermannTyton halar cable ties is UL 94V0 rated. The halar ties come in a distinct color of red for easy identification. See page 181 for plenum Grip Ties.



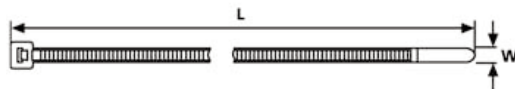
#### Product Selection

| Article No. | Part No.    | Type  | Min. Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Color | Pkg. Qty. |
|-------------|-------------|-------|-----------------------|------------|---------------|-----------|-------|-----------|
| 111-01900   | T18R2HALC2  | T18R  | 14 lbs                | 4"         | .87"          | .10"      | Red   | 100       |
| 111-01902   | T18R2HALM4  | T18R  | 14 lbs                | 4"         | .87"          | .10"      | Red   | 1000      |
| 111-04895   | T50R2HALC2  | T50R  | 40 lbs                | 8.0"       | 1.75"         | .176"     | Red   | 100       |
| 111-04897   | T50R2HALM4  | T50R  | 40 lbs                | 8.0"       | 1.75"         | .176"     | Red   | 1000      |
| 111-12056   | T120R2HALK2 | T120R | 80 lbs                | 15.5"      | 4.0"          | .31"      | Red   | 50        |
| 111-12055   | T120R2HALH4 | T120R | 80 lbs                | 15.5"      | 4.0"          | .31"      | Red   | 500       |

Note: Halar ties also are available in natural color. Contact HellermannTyton for availability. Halar is a registered trademark of Solvay S.A.

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

### UL Rated Cable Ties



#### Product Selection

| Article No. | Part No.  | Type | Min. Tensile Strength | Length (L) | Max. Ø Bundle | Width (W) | Color   | Pkg. Qty. |
|-------------|-----------|------|-----------------------|------------|---------------|-----------|---------|-----------|
| 111-00508   | T18R9C2UL | T18R | 18 lbs                | 4"         | .86"          | .10"      | Natural | 100       |
| 111-00509   | T18R9M4UL | T18R | 18 lbs                | 4"         | .86"          | .10"      | Natural | 1000      |
| 111-00510   | T18R2C2UL | T18R | 18 lbs                | 4"         | .86"          | .10"      | Red     | 100       |
| 111-00511   | T18R2M4UL | T18R | 18 lbs                | 4"         | .86"          | .10"      | Red     | 1000      |
| 111-00512   | T50R9C2UL | T50R | 50 lbs                | 7.9"       | 1.97"         | .18"      | Natural | 100       |
| 111-00513   | T50R9M4UL | T50R | 50 lbs                | 7.9"       | 1.97"         | .18"      | Natural | 1000      |
| 111-00514   | T50R2C2UL | T50R | 50 lbs                | 7.9"       | 1.97"         | .18"      | Red     | 100       |
| 111-00515   | T50R2M4UL | T50R | 50 lbs                | 7.9"       | 1.97"         | .18"      | Red     | 1000      |
| 111-00516   | T50I9C2UL | T50I | 50 lbs                | 11.8"      | 3.35"         | .18"      | Natural | 100       |
| 111-00517   | T50I9M4UL | T50I | 50 lbs                | 11.8"      | 3.35"         | .18"      | Natural | 1000      |
| 111-00518   | T50I2C2UL | T50I | 50 lbs                | 11.8"      | 3.35"         | .18"      | Red     | 100       |
| 111-00519   | T50I2M4UL | T50I | 50 lbs                | 11.8"      | 3.35"         | .18"      | Red     | 1000      |
| 111-00520   | T50L9C2UL | T50L | 50 lbs                | 15.35"     | 4.33"         | .18"      | Natural | 100       |
| 111-00521   | T50L9M4UL | T50L | 50 lbs                | 15.35"     | 4.33"         | .18"      | Natural | 1000      |
| 111-00522   | T50L2C2UL | T50L | 50 lbs                | 15.35"     | 4.33"         | .18"      | Red     | 100       |
| 111-00523   | T50L2M4UL | T50L | 50 lbs                | 15.35"     | 4.33"         | .18"      | Red     | 1000      |

Installation tools - MK7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## PicPac

The PicPac offers an easy method of identifying binder system groups in PIC cable through the use of HellermannTyton striped and solid cable ties. Each PicPac contains 1,300 ties, including 50 each of the 24 most popular color combinations of striped ties, as well as solid red and solid black ties. All 26 different ties are packaged in easy open bags of 50.

PicPac cases are made from a heavy duty laminated vinyl which is suited to cold weather environments, resistant to cable gel, and can be cleaned inside and out. The reinforced pockets are interlined with foam cushion to ensure that ties remain tightly packed, even when only a few ties are left. Two convenient snaps allow the PicPac to be easily hung or folded.



## PocketPac

Designed to fit in a shirt pocket, the PocketPac contains 50 of the most commonly used striped cable ties. The PocketPac case is made of clear vinyl with a snap-lock top for easy access and identification.



### Product Selection

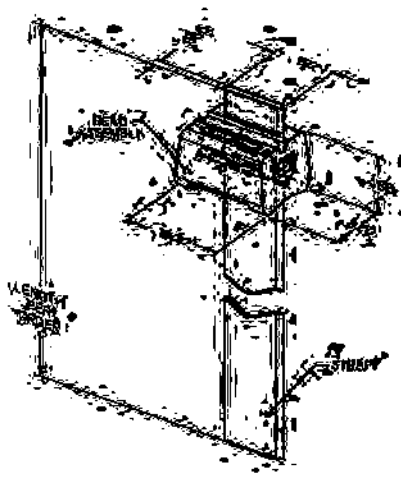
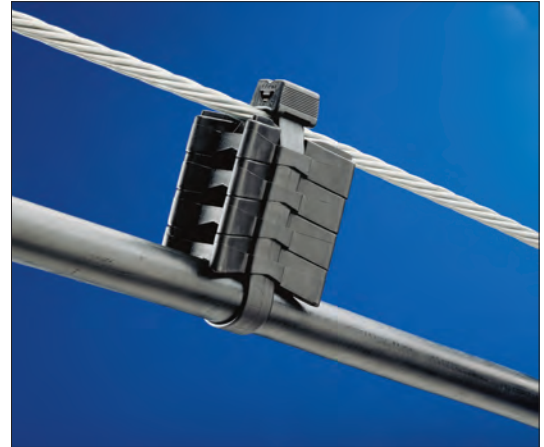
| Article No. | Part No.             | Type          | Description                                                                                                                                                 | Pkg. Qty. |
|-------------|----------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 111-01786   | <b>T18RPICPAC</b>    | T18RPICPAC    | Vinyl case containing 1,300 ties including 50 each one of the 24 most popular color combinations of striped ties as well as solid black and solid red ties. | 1         |
| 111-00940   | <b>T18RPOCKETPAC</b> | T18RPOCKETPAC | Case containing 50 of the most commonly used one striped ties (10 each of blue, orange, green, brown, and slate, all with white stripes).                   | 1         |

Use **Part No.** for ordering and **Type** for specification purposes.

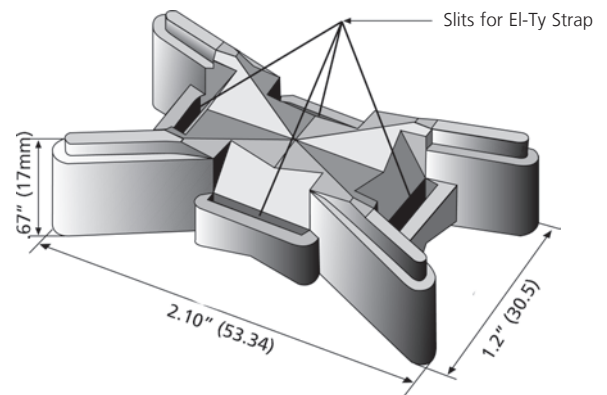
## EL-TY (Extended Length Tie)

HellermannTyton's El-Ty is a high strength strapping system used for supporting, securing, fastening, and spacing cables, as well as a variety of other applications requiring extra-long, extremely durable strapping.

The El-Ty consists of a smooth strap and a separate, compact plastic head which encloses a stainless steel gripper. The stackable spacer accepts cable ties up to 1/2" wide for a versatile, easy to install spacing system.



El-Ty Strap and Locking Head



El-Ty Spacer

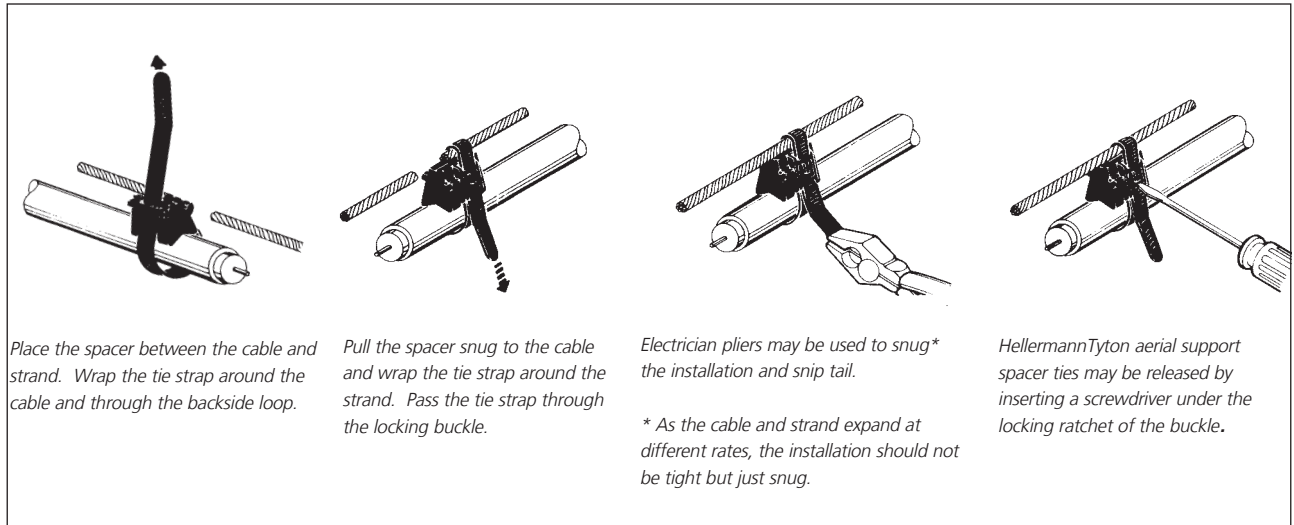
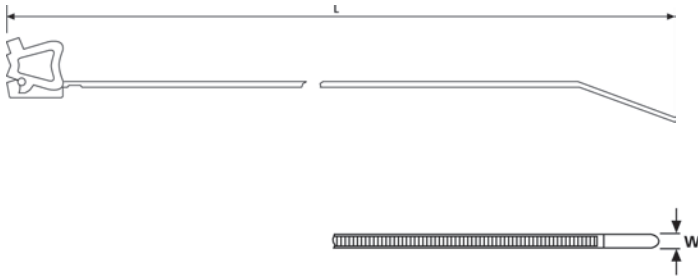
### Product Selection

| Article No. | Part No.          | Type | Description                                                       | Color | Pkg. Qty. |
|-------------|-------------------|------|-------------------------------------------------------------------|-------|-----------|
| 111-30000   | <b>TELS-1</b>     | TELS | Extended Length Tie 1 - 50ft reel of strap and 30 heads           | Black | 1         |
| 111-31000   | <b>TELS-H</b>     | TELS | Extended Length Tie Double entry and locking heads                | Black | 25        |
| 111-32108   | <b>TELS-13</b>    | TELS | Extended Length Tie 10 - 13.5" straps and 10 double locking heads | Black | 10        |
| 111-32110   | <b>TELS-27</b>    | TELS | Extended Length Tie 10 - 27" straps and 10 double locking heads   | Black | 1         |
| 111-32111   | <b>TELS-5K</b>    | TELS | Extended Length Tie 5 - 50 ft reels and 150 heads                 | Black | 1         |
| 111-32107   | <b>TELS-10K</b>   | TELS | Extended Length Tie 10 - 50 ft reels and 300 heads                | Black | 1         |
| 111-32000   | <b>TELS-SPK2</b>  | TELS | El-Ty Spacer                                                      | Black | 50        |
| 111-32106   | <b>TELS-SPOOL</b> | TELS | Extended Length Tie 50 ft reel of strap                           | Black | 1         |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Aerial Support Spacer Ties

Aerial support spacer ties are two piece ties designed for standard spacing applications. The strap is molded from special high impact polyamide 6.6. The support spacer and head are made from a high density outdoor black polypropylene. Both materials offer resistance to sunlight, saltwater, and harsh chemical environments.



### Product Selection

| Article No. | Part No.         | Type      | Min. Tensile Strength | Length (L)    | Max. Ø Bundle | Width (W)   |             | Color | Pkg. Qty. |
|-------------|------------------|-----------|-----------------------|---------------|---------------|-------------|-------------|-------|-----------|
|             |                  |           | lbs. (N)              | in. (mm)      | in. (mm)      | in. (mm)    | in. (mm)    |       |           |
| 111-98500   | <b>TAS100MWS</b> | TAS100    | 100 lbs (445)         | 10.7" (272.3) | 2.75" (70.0)  | .50" (12.7) | .50" (12.7) | Black | 500       |
| 111-98501   | <b>TAS100RWS</b> | TAS100    | 100 lbs (445)         | 8.25" (209.6) | 1.75" (44.5)  | .50" (12.7) | .50" (12.7) | Black | 500       |
| 148-00022   | <b>TAS100LWS</b> | TAS100LWS | 100 lbs (445)         | 16" (420)     | 4.5" (115)    | .50" (12.7) | .50" (12.7) | Black | 500       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Mechanical Cable Tie Tools

HellermannTyton offers advanced, quality engineered cable tie tools suitable for most any cable tie application. Available in mechanical, power assisted, and automatic versions, HellermannTyton's tools are industry preferred for their ergonomic designs, reliability, and ease of use.

HellermannTyton's tools make it easier for the installer to apply cable ties, while maintaining correct tension and flush cut-off. Safety is enhanced, as the tools can eliminate the sharp edges of a cut-off cable tie.



MK7



MK9



MK7HT



MK9HT

### Product Selection

| Article No. | Part No.     | Type  | Description                                                                                                       | Cable Tie Series                               | Pkg. Qty. |
|-------------|--------------|-------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------|
| 110-07500   | <b>MK7</b>   | MK7   | Durable and lightweight, the Mark 7 tool is user friendly and adjustable, with top-of-the-line design features.   | T18 thru T50 Series<br>CTT20 thru CTT60 Series | 1         |
| 110-07000   | <b>MK7HT</b> | MK7HT | Cable Tie Tensioning and Cut-Off Tool with Adjustable settings for T18-T50 series CTT20-CTT60 Series.             | T18 thru T50 Series<br>CTT20 thru CTT60 Series | 1         |
| 110-09500   | <b>MK9</b>   | MK9   | The Mark 9 tool has the same design features as the MK7 series tools. The MK9 accommodates heavy-duty cable ties. | T18* through T250 Series                       | 1         |
| 110-09000   | <b>MK9HT</b> | MK9HT | The Mark 9 High Tension tool has the same design features as the MK9, but offers an increased tension range.      | T18* through T250 Series                       | 1         |

Use **Part No.** for ordering and **Type** for specification purposes. \* Does not include T18S series ties .08" wide.

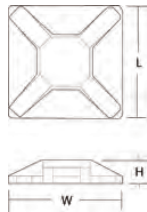
## Cable Tie Mounting Bases

HellermannTyton offers a wide variety of mounting bases suitable for many applications. Mounting bases are used in conjunction with cable ties to stabilize and secure wiring bundles, both indoors and outdoors. These mounting bases can be secured to a surface using adhesive or by being screw mounted.

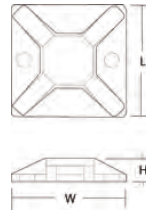
HellermannTyton's four-way mounting bases are available in four sizes to accommodate T18 through T150 series cable ties. Insertion of ties can be made from all four sides. Each mount may be secured with two screws (four screws for the MB2.5 mount), with adhesive backing, or both, for ease of application and stability.



Adhesive mounts are supplied in pairs connected together on an adhesive liner.



4-way, MB2.5 mount



4-way, MB3, MB4 and MB5 mounts

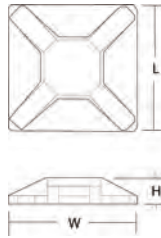
## Cable Tie Mounting Bases - Screw Mount



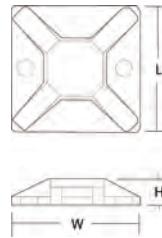
| Product Selection |                  |       |                  |          |            |           |            |       |           |
|-------------------|------------------|-------|------------------|----------|------------|-----------|------------|-------|-----------|
| Article No.       | Part No.         | Type  | Cable Tie Series | Mounting | Length (L) | Width (W) | Height (H) | Color | Pkg. Qty. |
| 4-Way Screw Mount |                  |       |                  |          |            |           |            |       |           |
| 151-28901         | <b>MB2.510C2</b> | MB2.5 | T18              | #3 Screw | .625"      | .625"     | .130"      | White | 100       |
| 151-28902         | <b>MB2.510M4</b> | MB2.5 |                  |          | .625"      | .625"     | .130"      | White | 1000      |
| 151-00285         | <b>MB2.50C2</b>  | MB2.5 |                  |          | .625"      | .625"     | .130"      | Black | 100       |
| 151-00286         | <b>MB2.50M4</b>  | MB2.5 |                  |          | .625"      | .625"     | .130"      | Black | 1000      |
| 151-28302         | <b>MB310C2</b>   | MB3   | T18, T30         | #4 Screw | .75"       | .75"      | .15"       | White | 100       |
| 151-28305         | <b>MB310M4</b>   | MB3   |                  |          | .75"       | .75"      | .15"       | White | 1000      |
| 151-00136         | <b>MB30C2</b>    | MB3   |                  |          | .75"       | .75"      | .15"       | Black | 100       |
| 151-28301         | <b>MB30M4</b>    | MB3   |                  |          | .75"       | .75"      | .15"       | Black | 1000      |
| 151-28802         | <b>MB410C2</b>   | MB4   | T18 - T50        | #8 Screw | 1.12"      | 1.12"     | .19"       | White | 100       |
| 151-00319         | <b>MB410H4</b>   | MB4   |                  |          | 1.12"      | 1.12"     | .19"       | White | 500       |
| 151-00320         | <b>MB40C2</b>    | MB4   |                  |          | 1.12"      | 1.12"     | .19"       | Black | 100       |
| 151-28801         | <b>MB40H4</b>    | MB4   |                  |          | 1.12"      | 1.12"     | .19"       | Black | 500       |
| 151-00324         | <b>MB510C2</b>   | MB5   | T18 - T150       | #8 Screw | 1.485"     | 1.485"    | .245"      | White | 100       |
| 151-28504         | <b>MB510F4</b>   | MB5   |                  |          | 1.485"     | 1.485"    | .245"      | White | 250       |
| 151-28500         | <b>MB50C2</b>    | MB5   |                  |          | 1.485"     | 1.485"    | .245"      | Black | 100       |
| 151-28501         | <b>MB50F4</b>    | MB5   |                  |          | 1.485"     | 1.485"    | .245"      | Black | 250       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Cable Tie Mounting Bases - Rubber-Based Adhesive



4-way, MB2.5 mount



4-way, MB3, MB4 and MB5 mounts



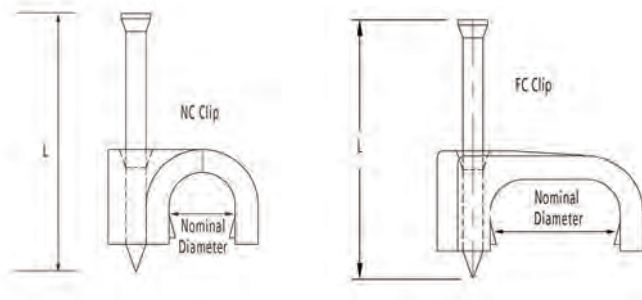
## Product Selection

| Article No.                                | Part No.          | Type   | Cable Tie Series | Mounting | Length (L) | Width (W) | Height (H) | Color | Pkg. Qty. |
|--------------------------------------------|-------------------|--------|------------------|----------|------------|-----------|------------|-------|-----------|
| 4 - Way Mount with Rubber - Based Adhesive |                   |        |                  |          |            |           |            |       |           |
| 151-29002                                  | <b>MB2.5A10C2</b> | MB2.5A | T18              | Adhesive | .625"      | .625"     | .160"      | White | 100       |
| 151-00298                                  | <b>MB2.5A10M4</b> | MB2.5A |                  |          | .625"      | .625"     | .160"      | White | 1000      |
| 151-29000                                  | <b>MB2.5A0C2</b>  | MB2.5A |                  |          | .625"      | .625"     | .160"      | Black | 100       |
| 151-29001                                  | <b>MB2.5A0M4</b>  | MB2.5A |                  |          | .625"      | .625"     | .160"      | Black | 1000      |
| 151-28718                                  | <b>MB3A10C2</b>   | MB3A   | T18, T30         | Adhesive | .75"       | .75"      | .18"       | White | 100       |
| 151-28721                                  | <b>MB3A10M4</b>   | MB3A   |                  |          | .75"       | .75"      | .18"       | White | 1000      |
| 151-28710                                  | <b>MB3A0C2</b>    | MB3A   |                  |          | .75"       | .75"      | .18"       | Black | 100       |
| 151-28713                                  | <b>MB3A0M4</b>    | MB3A   |                  |          | .75"       | .75"      | .18"       | Black | 1000      |
| 151-28421                                  | <b>MB4A10C2</b>   | MB4A   | T18 - T50        | Adhesive | 1.12"      | 1.12"     | .22"       | White | 100       |
| 151-00321                                  | <b>MB4A10H4</b>   | MB4A   |                  |          | 1.12"      | 1.12"     | .22"       | White | 500       |
| 151-28403                                  | <b>MB4A0C2</b>    | MB4A   |                  |          | 1.12"      | 1.12"     | .22"       | Black | 100       |
| 151-28406                                  | <b>MB4A0H4</b>    | MB4A   |                  |          | 1.12"      | 1.12"     | .22"       | Black | 500       |
| 151-28529                                  | <b>MB5A10C2</b>   | MB5A   | T18 - T150       | Adhesive | 1.485"     | 1.485"    | .275"      | White | 100       |
| 151-00427                                  | <b>MB5A10F4</b>   | MB5A   |                  |          | 1.485"     | 1.485"    | .275"      | White | 250       |
| 151-28602                                  | <b>MB5A0C2</b>    | MB5A   |                  |          | 1.485"     | 1.485"    | .275"      | Black | 100       |
| 151-28605                                  | <b>MB5A0F4</b>    | MB5A   |                  |          | 1.485"     | 1.485"    | .275"      | Black | 250       |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Nail Clips

HellermannTyton nail clips are easy to use and highly reliable. The tough, precision-engineered clips hold wire and cable securely in place. The nail is hardened for driving into wood, masonry joints, cinder block and mortar. The nails also are perpendicular to the work surface and are driven in straight, greatly reducing cracking. The nail clips do not have sharp edges, which reduce the chance of cutting cable jackets or sheaths and causing signal loss.



### Product Selection

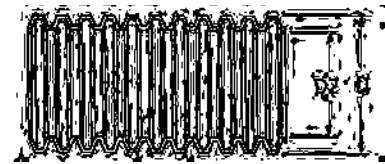
| Article No. | Part No.       | Type  | Nominal Ø | Length (L) | Application                                           | Color | Pkg. Qty. |
|-------------|----------------|-------|-----------|------------|-------------------------------------------------------|-------|-----------|
| 148-00005   | <b>NC3.50</b>  | NC3.5 | .138"     | .630"      | 14# Ground Wire, Telecom 1 pair                       | Black | 100 pcs   |
| 148-00006   | <b>NC3.510</b> | NC3.5 | .138"     | .630"      |                                                       | White | 100 pcs   |
| 148-00007   | <b>NC50</b>    | NC5   | .197"     | .630"      | Telecom 4 pair                                        | Black | 100 pcs   |
| 148-00008   | <b>NC510</b>   | NC5   | .197"     | .630"      |                                                       | White | 100 pcs   |
| 148-00009   | <b>NC60</b>    | NC6   | .236"     | .630"      | Telecom 6 pair, RG59                                  | Black | 100 pcs   |
| 148-00010   | <b>NC610</b>   | NC6   | .236"     | .630"      |                                                       | White | 100 pcs   |
| 148-00011   | <b>NC70</b>    | NC7   | .276"     | .787"      | RG6 and RG59 Double Shielded                          | Black | 100 pcs   |
| 148-00012   | <b>NC710</b>   | NC7   | .276"     | .787"      |                                                       | White | 100 pcs   |
| 148-00013   | <b>NC80</b>    | NC8   | .315"     | .787"      | Telecom 10 pair RG7, and RG6 Double and Quad Shielded | Black | 100 pcs   |
| 148-00014   | <b>NC810</b>   | NC8   | .315"     | .787"      |                                                       | White | 100 pcs   |
| 148-00015   | <b>NC90</b>    | NC9   | .354"     | .787"      | Telecom 12 pair                                       | Black | 100 pcs   |
| 148-00016   | <b>NC910</b>   | NC9   | .354"     | .787"      |                                                       | White | 100 pcs   |
| 148-00003   | <b>NC110</b>   | NC11  | .433"     | .984"      | Telecom 25 pair                                       | Black | 100 pcs   |
| 148-00004   | <b>NC1110</b>  | NC11  | .433"     | .984"      |                                                       | White | 100 pcs   |
| 148-00017   | <b>FC140</b>   | FC14  | .551"     | .984"      | RG59 and RG6 Flat Twin and Ground                     | Black | 100 pcs   |
| 148-00018   | <b>FC1410</b>  | FC14  | .551"     | .984"      |                                                       | White | 100 pcs   |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Convoluted Tubing

Convoluted tubing provides an efficient method of routing and protecting wire harness assemblies, while reducing the chance of installation damage. It also can serve to protect valuable wiring circuits.

HellermannTyton's convoluted tubing offers excellent protection against vibration wear, water, snow, ice, and the effects of heat, cold, and sunlight on cables and wires.



| Product Selection                         |            |         |         |        |        |                |           |
|-------------------------------------------|------------|---------|---------|--------|--------|----------------|-----------|
| Article No.                               | Part No.   | Type    | Nominal | D      | D2     | Wall Thickness | Pkg. Qty. |
| Polyethylene (PE), Black                  |            |         |         |        |        |                |           |
| 169-60509                                 | CTP140STD  | CTP140  | .250"   | .40"   | .27"   | .004"          | 3200 ft.  |
| 169-60515                                 | CTP380STD  | CTP380  | .380"   | .526"  | .380"  | .005"          | 1900 ft.  |
| 169-60507                                 | CTP120STD  | CTP120  | .50"    | .70"   | .516"  | .005"          | 1100 ft.  |
| 169-60517                                 | CTP580STD  | CTP580  | .625"   | .837"  | .639"  | .005"          | 800 ft.   |
| 169-60513                                 | CTP340STD  | CTP340  | .750"   | .989"  | .759"  | .005"          | 550 ft.   |
| 169-60501                                 | CTP10STD   | CTP10   | 1"      | 1.32"  | 1.06"  | .005"          | 300 ft.   |
| 169-60505                                 | CTP1140STD | CTP1140 | 1.250"  | 1.50"  | 1.257" | .006"          | 250 ft.   |
| 169-60503                                 | CTP1120STD | CTP1120 | 1.5"    | 1.947" | 1.65"  | .006"          | 150 ft.   |
| 169-60511                                 | CTP20STD   | CTP20   | 2"      | 2.42"  | 2.05"  | .011"          | 100 ft.   |
| Polyamide 6 (PA6), Black with Gray Stripe |            |         |         |        |        |                |           |
| 169-60009                                 | CTN140STD  | CTN140  | .250"   | .40"   | .27"   | .004"          | 3200 ft.  |
| 169-60015                                 | CTN380STD  | CTN380  | .380"   | .526"  | .380"  | .005"          | 1900 ft.  |
| 169-60007                                 | CTN120STD  | CTN120  | .50"    | .70"   | .516"  | .005"          | 1200 ft.  |
| 169-60017                                 | CTN580STD  | CTN580  | .625"   | .837"  | .639"  | .005"          | 800 ft.   |
| 169-60013                                 | CTN340STD  | CTN340  | .750"   | .989"  | .759"  | .005"          | 550 ft.   |
| 169-60001                                 | CTN10STD   | CTN10   | 1"      | 1.32"  | 1.06"  | .005"          | 300 ft.   |
| 169-60005                                 | CTN1140STD | CTN1140 | 1.250"  | 1.50"  | 1.257" | .006"          | 250 ft.   |
| 169-60003                                 | CTN1120STD | CTN1120 | 1.5"    | 1.947" | 1.65"  | .006"          | 150 ft.   |
| 169-60011                                 | CTN20STD   | CTN20   | 2"      | 2.42"  | 2.05"  | .011"          | 100 ft.   |

Standard tubing is slit. Unslit is available upon request. Please contact HellermannTyton for pre-cut length requirements. Colors are available dependent upon order volume. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

## Convuluted Tubing Dispenser Box

The convoluted tubing dispenser boxes offer an efficient packaging option. The sturdy and compact dispenser boxes allow for easy storage and moving around in the work area. The reel inside the box allows for tangle free dispensing, making it much easier to work with the product. Convoluted tubing in dispenser boxes is available in polyamide 6 material –1/4", 3/8", 1/2", 3/4" and 1" sizes.



### Product Selection

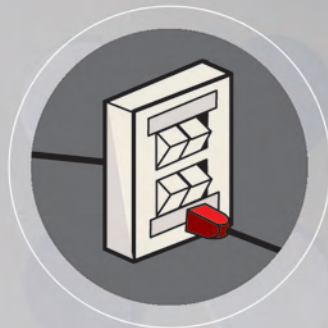
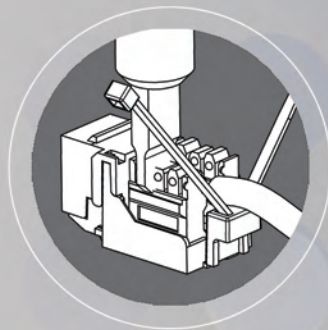
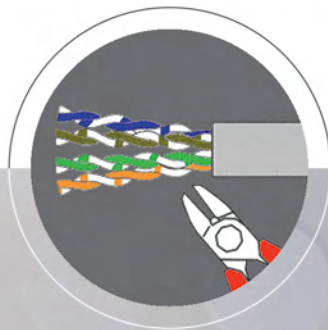
| Article No. | Part No.         | Type   | Description                                       | Pkg. Qty. |
|-------------|------------------|--------|---------------------------------------------------|-----------|
| 169-60022   | <b>169-60022</b> | CTN140 | 1/4" Convoluted Tubing, Slit - Polyamide 6, Black | 100 ft.   |
| 169-60018   | <b>169-60018</b> | CTN380 | 3/8" Convoluted Tubing, Slit - Polyamide 6, Black | 100 ft.   |
| 169-60019   | <b>169-60019</b> | CTN120 | 1/2" Convoluted Tubing, Slit -Polyamide 6, Black  | 100 ft.   |
| 169-60020   | <b>169-60020</b> | CTN340 | 3/4" Convoluted Tubing, Slit - Polyamide 6, Black | 100 ft.   |
| 169-60021   | <b>169-60021</b> | CTN10  | 1" Convoluted Tubing, Slit - Polyamide 6, Black   | 50 ft.    |

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

# APPENDIX AND PART NUMBER INDEX

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

|                                      |          |
|--------------------------------------|----------|
| Standards Overview . . . . .         | .228-229 |
| Installation Practices . . . . .     | .230-239 |
| Glossary . . . . .                   | .240-244 |
| Acronyms and Abbreviations . . . . . | .245     |



## Standards

Industry standards are published guidelines derived from many industry participants such as manufacturers, engineers, consultants, and distributors. The main objective of these standards is to provide requirements and guidelines for the design and installation of a cabling system infrastructure within a commercial building. These standards allow manufacturers to produce equipment and components that will be interoperable in a standard building/cabling environment. Standards also provide performance category benchmarks such as Cat 6A, Cat 6, and Cat 5e as well as guidelines for planning, designing, and proper installation of the overall cabling system.

HellermannTyton is an active voting member in the ANSI/EIA/TIA Standards Organizations and manufactures product solutions that meet and exceed all applicable standards. As such, it is our ongoing commitment to comply with both existing and future standards.

## Prominent Published Standards

### ANSI/TIA/EIA-568-C

- 568-C.0: Generic Telecommunications Cabling for Customer Premises
- 568-C.1: Commercial Building Telecommunications Cabling Standards
- 568-C.2: Balanced Twisted-Pair Telecommunication Cabling and Components Standards
- 568-C.3: Optical Fiber Cabling Components Standard

- TIA-569-B: Telecommunications Pathways and Spaces
- TIA-570-B: Addendum 1, Residential Telecommunications Infrastructure Standard
- TIA-606-A: Addendum 1, Administration of Equipment Rooms and Data Center Computer Rooms
- TIA-758-A: Customer Owned Outside Plant Telecommunications Infrastructure Standard
- TIA-862: Building Automation Systems Cabling Standard for Commercial Buildings
- TIA-942: Telecommunications Infrastructure Standards for Data Centers
- TIA-1005: Telecommunications Infrastructure Standard for Industrial Premises

*Standards continued*

|                   |                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------|
| ANSI-J-STD-607-A: | Commercial Building Grounding (Earthing) and Bonding Requirements<br>for Telecommunications |
| IEEE 802.3:       | Ethernet Standards                                                                          |
| ISO/IEC 11801:    | International Generic Cabling for Customer Premises                                         |

## Appendix

The ANSI/TIA/EIA-606-A standard will have several new requirements and recommendations for administration. The standard has 4 classes of administration:

### Administration

Modern buildings require an effective telecommunications infrastructure to support the wide variety of services that rely on the electronic transport of information. This infrastructure can be thought of as the collection of those components (telecommunications spaces, cable pathways, grounding, wiring and termination hardware) that provide the basic support for the distribution of all information within a building or campus. Administration of the telecommunications infrastructure include documentation (labels, records, drawings, reports, and work orders) of cables, termination hardware, patching and cross connect facilities, conduits, and other pathways, telecommunications rooms, and other telecommunications spaces. TIA/EIA-606-A Administration Standard for the telecommunications infrastructure of commercial buildings was released in August, 1993 and updated in 2008. This document sets the guidelines for administration of the telecommunications wiring system.

#### CLASS 1

Fewer than 100 users and 1 TR

#### CLASS 2

100s of users and multiple TRs in a single building

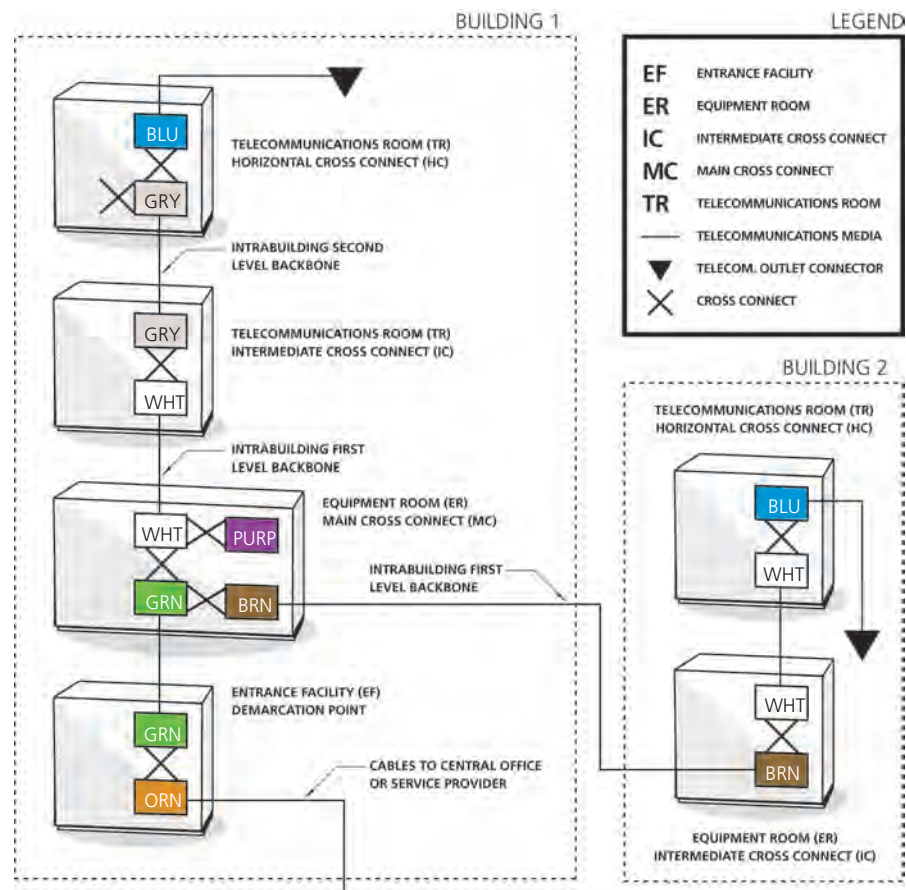
#### CLASS 3

Campus environment – 1000's of users, multiple buildings, multiple TRs in each building

#### CLASS 4

Connecting multiple Class 3 installations at different geographic locations

The standard is designed to accommodate all types of installations. For each Class, there are different labeling requirements and recommendations.



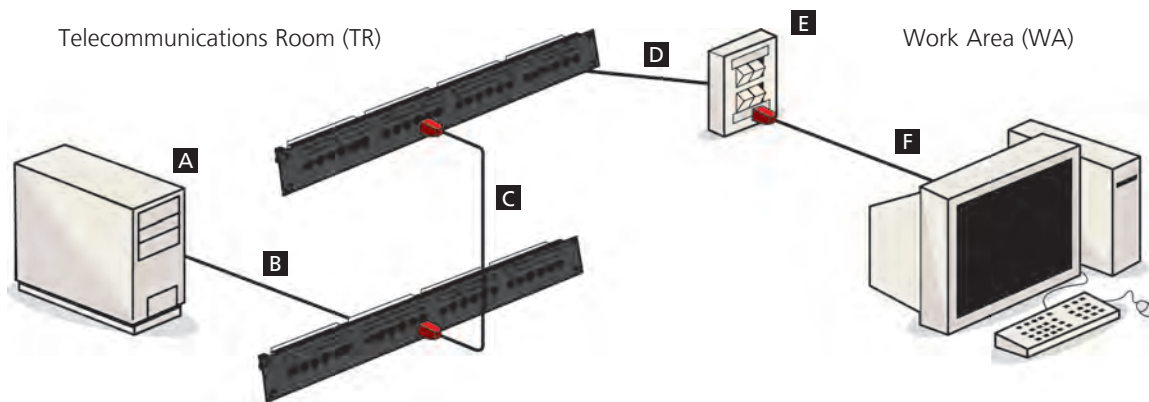
#### 606 Standard Color Chart

| TERMINATION TYPE       | COLOR         | COMMENTS                                             |
|------------------------|---------------|------------------------------------------------------|
| Demarcation point      | Orange        | Central office connection                            |
| Network connections    | Green         | Network connections or auxiliary circuit termination |
| Common equipment       | Purple/Violet | Connections to PBX, mainframe, LAN, multiplexer      |
| First level backbone   | White         | MC-IC cable terminations                             |
| Second level backbone  | Gray          | IC-TR cable terminations                             |
| Horizontal             | Blue          | Horizontal cable terminations in TRs                 |
| Interbuilding backbone | Brown         | Campus cable terminations                            |
| Other                  | Yellow        | Auxiliary, maintenance, alarms, security, etc.       |
| Key telephone systems  | Red           | Connections to key telephone systems                 |

## Horizontal Cabling

Extends from the telecommunications outlet/connector (TO) to the horizontal cross connect (HC).

## Horizontal Cabling System Structure



**A** Customer premises equipment

**B** HC equipment cord

**C** Patch cords/cross connect jumpers used in the HC including equipment cables/cords, should not exceed 5m (16 ft.)

**D** Horizontal cable 90m (295 ft.) max. total

**E** Telecommunications outlet/connector (TO)

**F** WA equipment cord not to exceed 5m (16 ft.)

### Recognized media:

4-pair 100  $\Omega$  Unshielded Twisted Pair (UTP)

4-pair 100  $\Omega$  Shielded Twisted Pair (F/UTP)

62.5/125  $\mu$ m Multimode Optical Fiber (OM1)

50/125  $\mu$ m Multimode Optical Fiber (OM2)

50/125  $\mu$ m Laser Optimized Multimode Optical Fiber (OM3 & OM4)

Single mode fiber can be used anywhere in the network.

\*300m (984 ft) in collapsed back bone.

### Maximum Distance (MC to HC):

90m (295 ft)

90m (295 ft)

90m (295 ft)

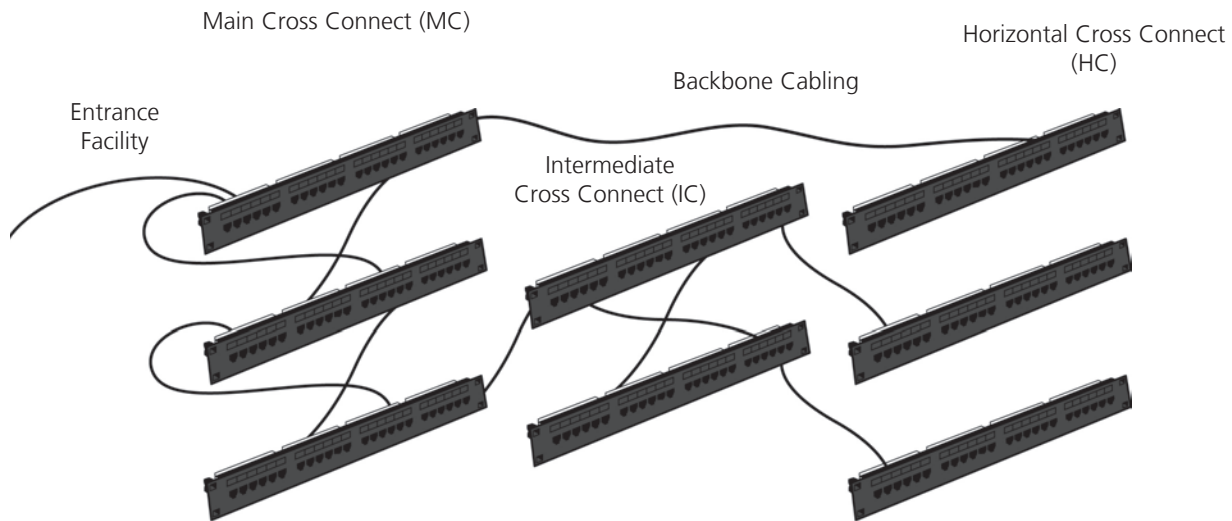
90m\* (295 ft)

90m\* (295 ft)

## Backbone Cabling

Provides interconnection between telecommunications rooms, equipment rooms, and entrance facilities.

### Backbone Cabling System Structure



#### Recognized media:

4-pair 100  $\Omega$  Unshielded Twisted Pair (UTP)  
 4-pair 100  $\Omega$  Shielded Twisted Pair (F/UTP)  
 62.5/125  $\mu\text{m}$  Multimode Optical Fiber (OM1)  
 50/125  $\mu\text{m}$  Multimode Optical Fiber (OM2)  
 50/125  $\mu\text{m}$  Laser Optimized Multimode Optical Fiber (OM3)  
 50/125  $\mu\text{m}$  850nm Laser Optimized Optical Fiber (OM4)  
 Single mode fiber can be used anywhere in the network

#### Maximum Distance (MC to HC):

90m (295 ft)  
 90m (295 ft)  
 2,000m (6,560 ft)  
 2,000m (6,560 ft)  
 2,000m (6,560 ft)  
 4,700m (15,420 ft)

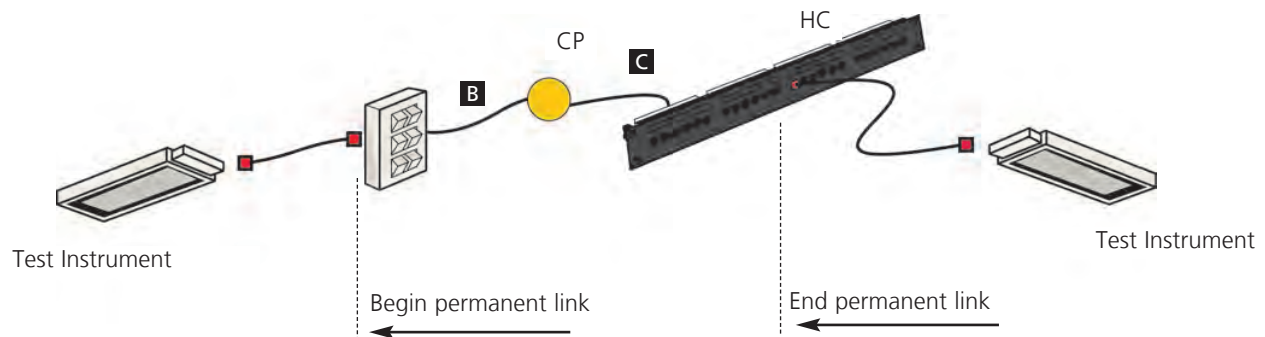
#### Note:

- Patch cords and jumpers at the main cross connect (MC) and the intermediate cross connect (IC) should not exceed 20 m (66 ft.)

## Transmission Performance Specifications for Field Testing of UTP Cabling Systems

### Permanent Link Configuration

- Up to 90 meters (295 ft.) of horizontal cable (B,C)
- A telecommunications/outlet connector
- A horizontal cross connect (HC)
- An optional transition/consolidation point (CP)



Maximum Length of B + C = 90 m (295 ft.)

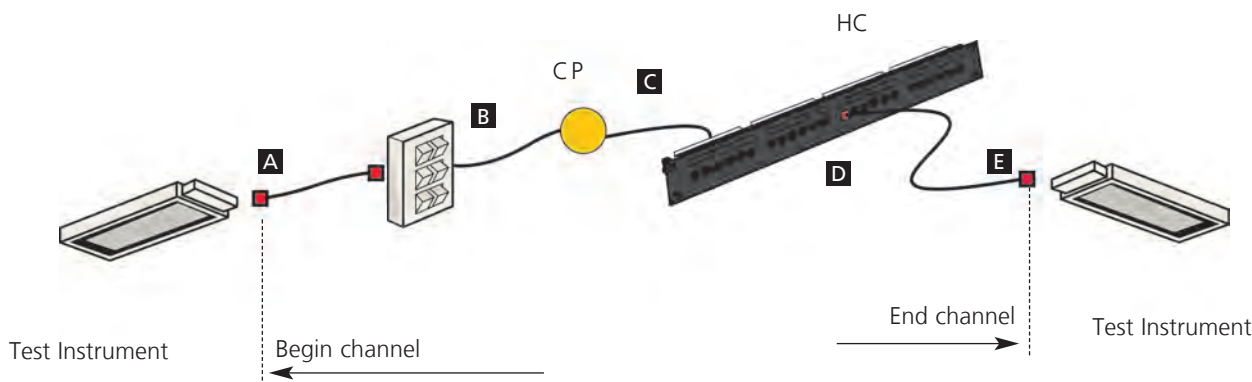
| CABLING TYPE | FREQUENCY (MHz) | INSERTION LOSS (dB) | NEXT (dB) | Permanent Link Requirements |                     |                  |
|--------------|-----------------|---------------------|-----------|-----------------------------|---------------------|------------------|
|              |                 |                     |           | PSNEXT (dB)                 | ELFEXT (dB) (ACR-F) | RETURN LOSS (dB) |
| Category 5e  | 100             | 21.0                | 32.3      | 29.3                        | 18.6                | 12.0             |
| Category 6   | 100             | 18.6                | 41.8      | 39.3                        | 24.2                | 14.0             |
| Category 6   | 250             | 31.1                | 35.3      | 32.7                        | 16.2                | 10.0             |
| Category 6A  | 500             | 43.8                | 26.7      | 23.8                        | 10.2                | 8.0              |

*Performance as specified in ANSI/TIA-568-C.2*

## Channel Configuration

- Up to 90 meters (295 ft.) of horizontal cable (B,C)
- A telecommunications/outlet connector
- Up to 2 horizontal cross connect connections in the telecommunications room (HC)
- A patch cord or jumper (D)
- A work area cord (A)
- A telecommunications room equipment cord (E)
- An optional transition/consolidation point connector (CP)

Note: When a maximum horizontal length of 90 meters (295 ft) is used, then the total length of the equipment cord, patch cord or jumper, and work area cord shall not exceed 10 meters (33 ft.).



## Maximum Lengths

$$B + C = 90 \text{ m (295 ft.)}$$

$$A + B + C + D + E = 100 \text{ m (328 ft.)}$$

| CABLING TYPE | FREQUENCY (MHz) | INSERTION LOSS (dB) | NEXT (dB) | PSNEXT (dB) | Channel Requirements |                  |
|--------------|-----------------|---------------------|-----------|-------------|----------------------|------------------|
|              |                 |                     |           |             | ELFEXT (dB) (ACR-F)  | RETURN LOSS (dB) |
| Category 5e  | 100             | 24.0                | 30.1      | 27.1        | 17.4                 | 10.0             |
| Category 6   | 100             | 21.3                | 39.9      | 37.1        | 23.3                 | 12.0             |
| Category 6   | 250             | 36.0                | 33.1      | 30.2        | 15.3                 | 8.0              |
| Category 6A  | 500             | 49.3                | 26.1      | 23.2        | 9.3                  | 6.0              |

*Performance as specified in ANSI/TIA-568-C.2*

## Recommended Installation Practices

### UTP Connector Terminations

Strip back only as much cable jacket as is required for termination and maintain pair twists as close as possible to the point of mechanical termination.

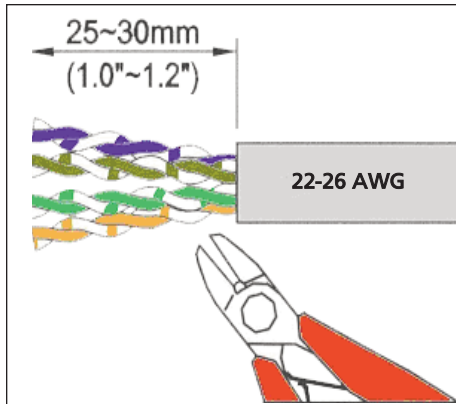
- CAT3 maximum allowed untwisting: 3" (75 mm)
- CAT5e maximum allowed untwisting: 1/2" (13 mm)
- CAT6 maximum allowed untwisting: 1/2" (13 mm)
- CAT6A maximum allowed untwisting: 1/2" (13mm)

## Cable Management

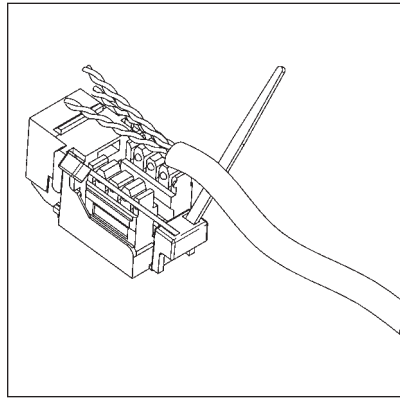
- Maintain a minimum bend radius of four times the cable diameter for copper and ten times the cable diameter for fiber
- Apply cable ties or Grip Ties loosely and at random intervals
- Avoid stretching cable
- Use appropriate methods for dressing and securing cables:
  - > Wire Management Brackets > Cable Ties
  - > Cable Management Panels > Grip Ties
- Do not exceed more than 25 lbs. of pulling tension on 4-pair cables
- Never bend cables more than 90 degrees

## Keystone Jack Installation Instructions

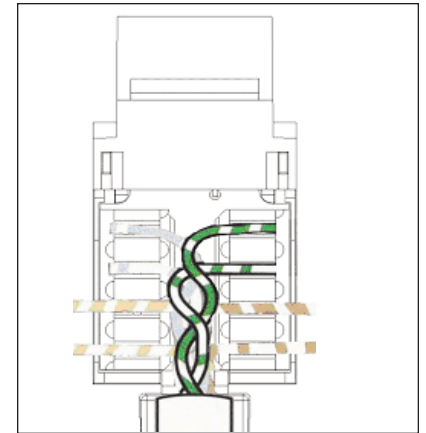
Prepare cable, cut back sheath to the appropriate length.



Lay cable onto outlet and secure with cable tie.

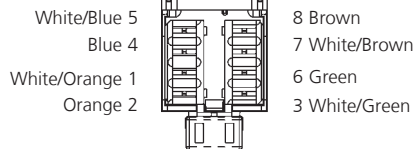


Punch down pairs nearest to jack first.

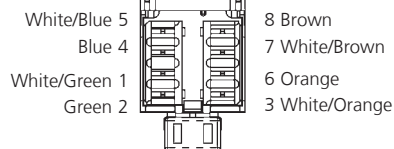


Use appropriate wiring scheme.

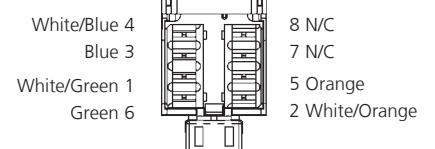
### 568B



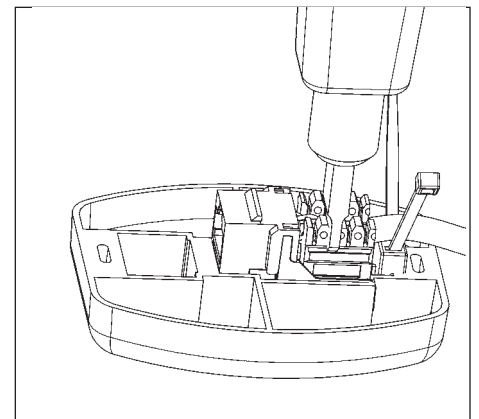
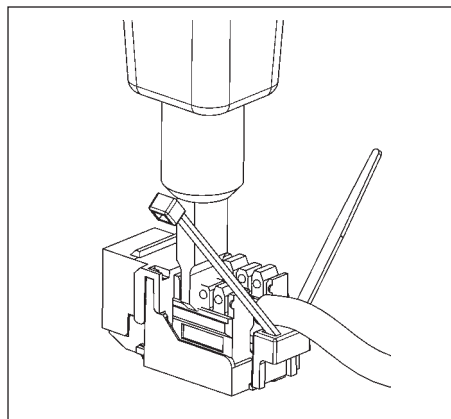
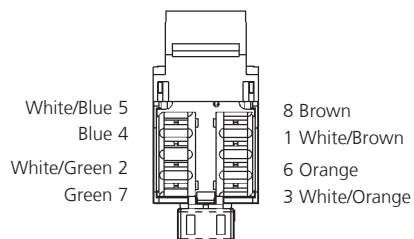
### 568A



### CAT 3 USOC (6P6C)



### CAT 3 USOC (8P8C)

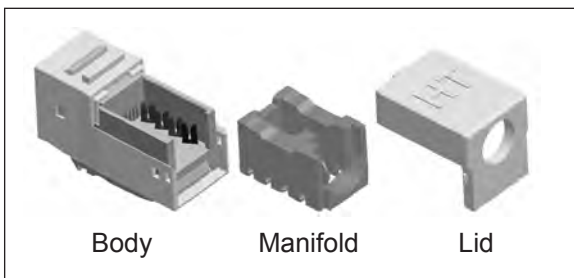


## Shielded Jack Installation Instructions

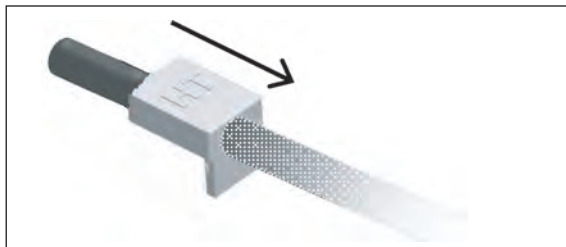
## Tools required:

- Cyclops or no nicks type cable sheath stripping tool
- Hand Termination Tool (HT6ASCT)
- Scissors

**1.** Remove all of jack contents from packaging. Including: jack body, manifold and lid.



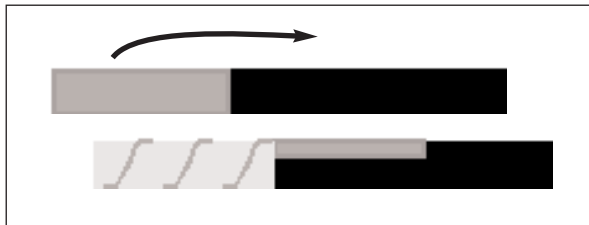
**2.** Slide lid onto end of cable to be terminated.



**3.** Strip cable back approximately 1-1/2" taking care not to nick or tear foil shielding.



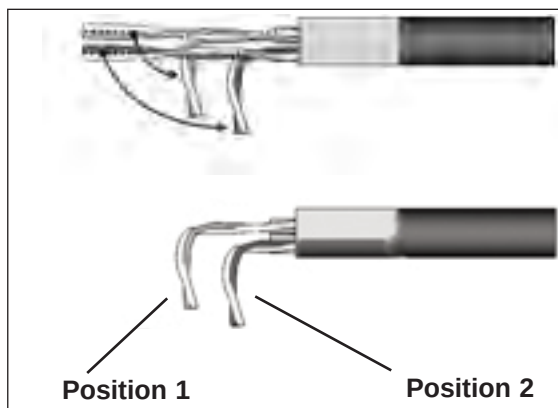
**4.** Carefully bend shielding back against the cable.



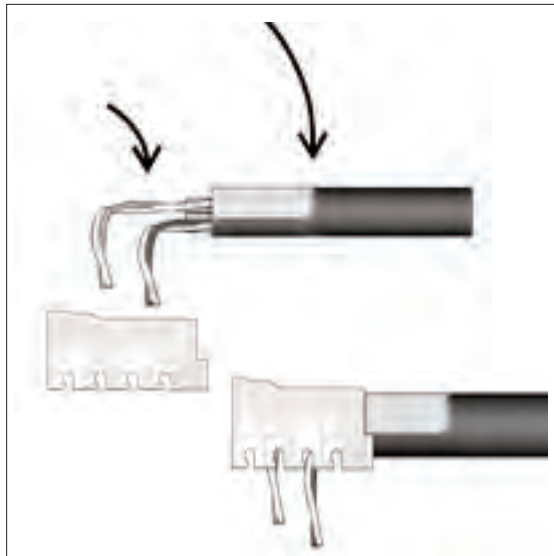
**5.** Locate and trim grounding wire and any mesh or plastic covering the wires.



**6.** Manipulate cables so they are properly lined up for desired wiring scheme determined by the manifold. Gently bend pairs into a first position and second position orientation.

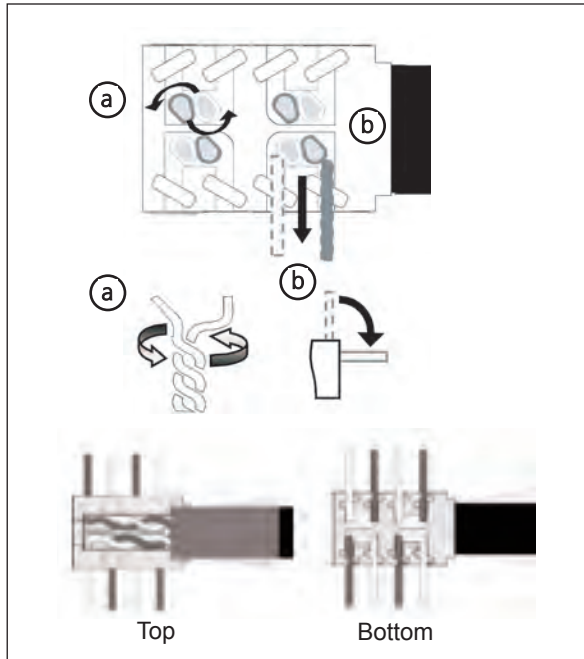


**7.** Pull cables through manifold in desired wiring scheme guides, taking care that all cables are within manifold channel on the top.

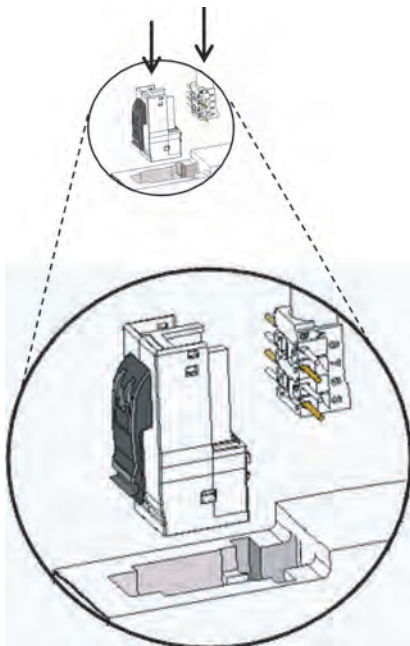


Shielded Jack Installation Instructions *continued*

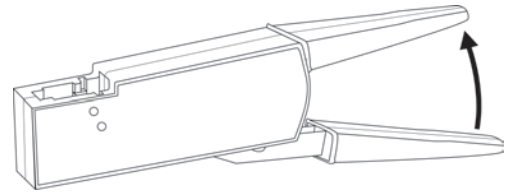
**8.** Once cables are in desired placement, untwist pairs (a) and pull into place through bottom of manifold (b). If desired, trim the cables leaving at least  $\frac{1}{4}$ " of wire from manifold side, prior to insertion into tool.



**9.** Place jack body in tool with RJ45 opening down and black tab facing away from handles. Insert manifold, bottom (split-pair side) towards jack body.



**10.** Squeeze handles of tool to cut, terminate and seat manifold onto jack body. Release handles and pull jack from tool.

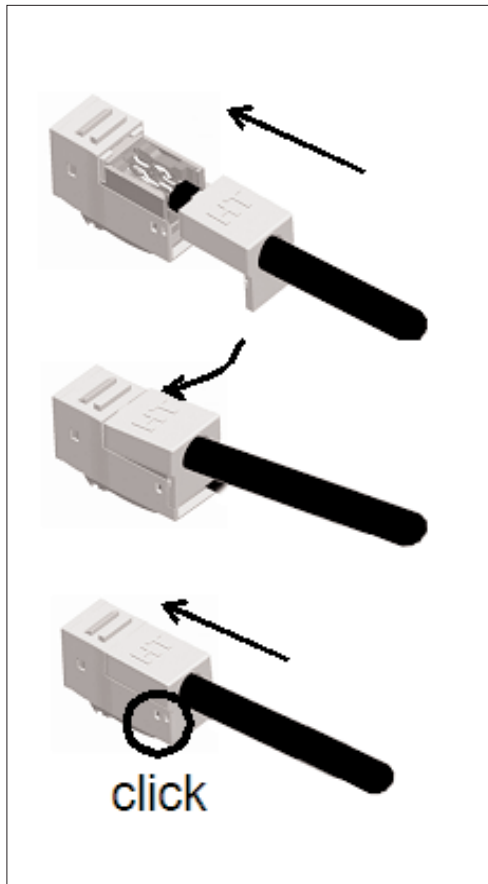


**11.** Fold shielding back over jack manifold. Trim or fold foil to stay within manifold outline. Reflective side of foil needs to be on top.

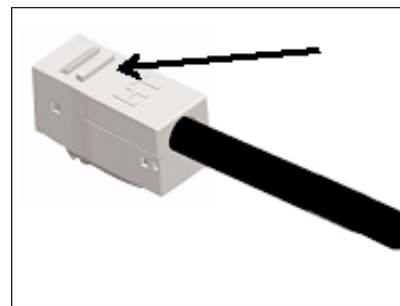


Shielded Jack Installation Instructions *continued*

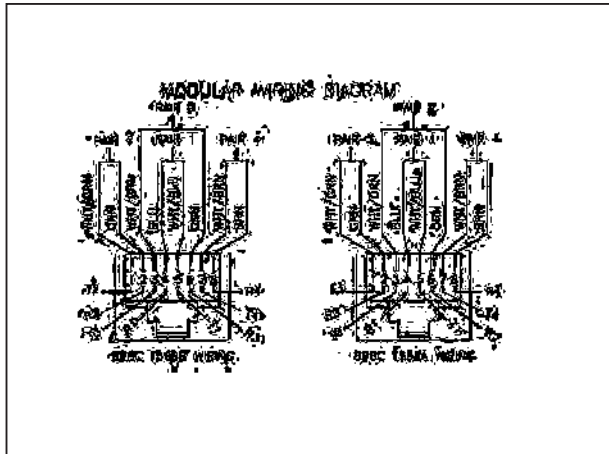
**12.** Slide lid over shielding and jack body while pushing down and inward. Take care not to tear or bend the foil. Foil removed from graphic to show detail. Correct installation will result with a “click” noting that it is shut. Confirm that jack is closed tightly by confirming cover is clicked in to latch towards cable.



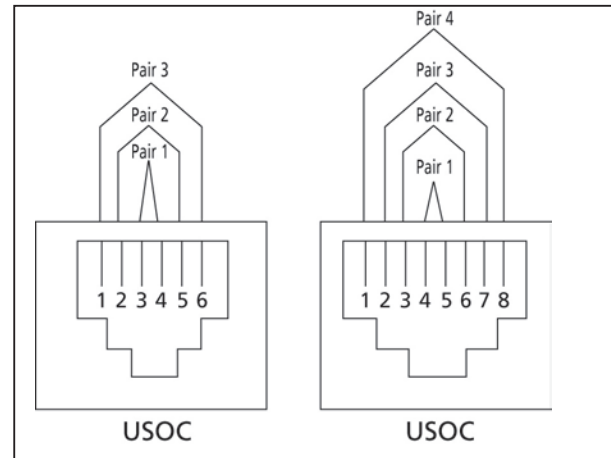
If re-termination is required, a small flathead screwdriver can be placed in the groove on the top of the lid (space between lid and body) to remove the lid. Once the lid is removed, the screwdriver can be used to push up against the manifold to release it from the IDC connections. The separate wires can then be released and the termination process can be redone.



## Category 6A, 6 and 5e



## Category 3



Standard 4 Pair Wire Color Codes

| PAIRS  | COLOR/CODE   | PAIR ID | 66 OR 110 POSITION | T568B | T568A | 6 CONDUCTOR USOC | 8 CONDUCTOR USOC |
|--------|--------------|---------|--------------------|-------|-------|------------------|------------------|
| Pair 1 | White/Blue   | T1      | 1                  | 5     | 5     | 4                | 5                |
|        | Blue/White   | R1      | 2                  | 4     | 4     | 3                | 4                |
| Pair 2 | White/Orange | T2      | 3                  | 1     | 3     | 2                | 6                |
|        | Orange/White | R2      | 4                  | 2     | 6     | 5                | 3                |
| Pair 3 | White/Green  | T3      | 5                  | 3     | 1     | 1                | 2                |
|        | Green/White  | R3      | 6                  | 6     | 2     | 6                | 7                |
| Pair 4 | White/Brown  | T4      | 7                  | 7     | 7     | —                | 1                |
|        | Brown/White  | R4      | 8                  | 8     | 8     | —                | 8                |

## Glossary of Terms

## A

**Administration** The method for labeling, identification, documentation and usage needed to implement moves, additions and changes of the telecommunications infrastructure.

**Alien CrossTalk (AXT)** Signal coupling from disturbing pairs into a disturbed pair of neighboring channel.

**Alien Far-End Crosstalk Loss (AFEXT)** Signal coupling from disturbing pairs into a disturbed pair of a neighboring channel measured at the far-end.

**Alien Near-End Crosstalk Loss (ANEXT)** Signal coupling from disturbing pairs into a disturbed pair of a neighboring channel measured at the near-end.

**Asynchronous Transfer Mode (ATM)** Technology selected by the International Telecommunications Union for broadband ISDN. This communications protocol is also specified by the ATM Forum for 155 Mb/s transmission over twisted-pair cable and various bit rate optical fiber cabling applications.

**Attenuation** A reduction in power or amplitude of the transmitted signal. In cables, it is generally expressed in decibels per unit length.

**Attenuation to Crosstalk Ratio (ACR)** The difference between attenuation and crosstalk measured in decibels.

**Attenuation to Alien Crosstalk Ratio Far-End (AACRF)** Difference, in dB, between the alien far-end crosstalk from a disturbing pair of a 4-pair channel, permanent link, or component and the insertion loss of the disturbed pair in another 4-pair channel permanent link or component. Previously referred to as Equal Level Far-End Crosstalk (ELFEXT) before 6A standard was released.

## B

**Backbone Cabling** Cable and connecting hardware that comprise the main and intermediate cross connects, as well as cable runs that extend between telecommunications rooms, equipment rooms and entrance facilities.

**Balance** An indication of signal voltage equality and phase polarity on a conductor pair. Perfect balance occurs when the signals across a twisted pair are equal in magnitude and opposite in phase with respect to ground.

**Balanced Signal Transmission** Two voltages, equal and opposite in phase with respect to each other, across the conductors of a twisted pair (commonly referred to as "tip and ring").

**Balun** An impedance matching transformer used to convert unbalanced coaxial signals to balanced signals.

**Bandwidth** A range of frequencies, usually the difference between the upper and lower limits of the range, typically expressed in megahertz (MHz). It is used to describe the information-carrying capacity of a medium. In copper and optical fibers, the bandwidth decreases with increasing length. Optical fiber bandwidth is specified in megahertz kilometers (MHz-km).

**Basic Link Test Configuration** Horizontal cable of up to 90 m (295 ft) plus up to 2 m (6.5 ft) of test equipment cord from the main unit of the tester to the local connection, and up to 2 m (6.5 ft) of test equipment cord from the remote connection to the remote unit of the tester. Maximum length is 94 m (308 ft).

**Bundled Cable** An assembly of two or more cables continuously bound together to form a single unit prior to installation (sometimes referred to as "loomed", "speed-wrap" or "whip cable" constructions).

**Bus Topology** A linear configuration where all network devices are placed on a single length of cable. It requires one backbone cable to which all network devices are connected.

## C

**Cable Sheath** A covering over the optical fiber or conductor assembly that may include one or more metallic members, strength members or jackets.

**Cabling** A combination of cables, wire, cords and connecting hardware used in the telecommunications infrastructure.

**Campus Backbone** Cabling between buildings that share telecommunications facilities.

**Campus Distributor (CD)** The international term for main cross connect the distributor from which the campus backbone cable emanates.

## Category

1. ANSI/TIA-568-C series of documents, the North American standards for cabling describes mechanical properties and transmission characteristics of unshielded twisted pair (UTP) cables and shielded twisted pair (ScTP) cables and assigns a unique number classification (Category 3, Category 5, Category 5e, and Category 6).
2. ISO/IEC IS 11801 2nd edition, the international standard for cabling and local standardization documents define cabling component categories based on transmission performance parameters such as attenuation and NEXT loss, over a specified frequency range.

**Channel** The end-to-end transmission path connecting any two points at which application specific equipment is connected. Equipment and work area cables are included in the channel.

**Common Mode Transmission** A transmission scheme where voltages appear equal in magnitude and phase across a conductor pair with respect to ground. May also be referred to as “longitudinal mode”.

**Consolidation Point (CP)** A location for interconnection between horizontal cables that extend from building pathways and horizontal cables that extend into work area pathways.

**Cross Connect** A facility enabling the termination of cables as well as their interconnection or cross connection with other cabling or equipment. Also known as a distributor.

**Cross Connection** A connection scheme between cabling runs, subsystems and equipment using patch cords or jumpers that attach to connecting hardware on each end.

**Crosstalk** Noise or interference caused-by electro-magnetic coupling from one signal path to another. Crosstalk performance is expressed in decibels.

## D

**Decibel (dB)** A standard unit for expressing transmission gain or loss as derived from a ratio of signal voltages or power.

**Delay Skew** The difference in propagation delay between the fastest and slowest pair in cable or cabling system.

**Demarcation Point (DP)** A point at which two services may interface and identify the division of responsibility.

**Differential Mode Transmission** A transmission scheme where voltages appear equal in magnitude and opposite in phase across a twisted pair with respect to ground. May also be referred to as balanced mode.

## E

**Electromagnetic Interference (EMI)** The interference in signal transmission or reception caused by the radiation of electrical and magnetic fields.

**Electronic Industries Alliance (EIA)** An organization that sets standards for interfaces to ensure compatibility between data communications equipment and data terminal equipment.

**Entrance Facility (EF)** An entrance to a building for both public and private network service cables (including antennae) including the entrance point at the building wall and continuing to the entrance room or space. Entrance facilities are often used to house electrical protection equipment and connecting hardware for the transition between outdoor and indoor cable.

**Entrance Facility, Telecommunications** An entrance to a building for both public and private network service cables (including antennae) beginning with the entrance point at the building wall and continuing to the entrance room or space.

**Entrance Point, Telecommunications** The point of emergence of telecommunications conductors through an exterior wall, a concrete floor slab, or from a rigid metal conduit or intermediate metal conduit.

**Equal Level Far-End Crosstalk (ELFEXT)** Crosstalk measured at the opposite end from which the disturbing signal is transmitted normalized by the attenuation contribution of the cable or cabling.

**Equal Level Transverse Conversion Transfer Loss (ELTCTL)** A calculation, expressed in dB, of the difference between measured TCTL and the differential mode insertion loss of the disturbed pair.

**Equipment Cable** A cable or cable assembly used to connect telecommunications equipment to horizontal or backbone cabling.

**Equipment Room (ER)** A centralized space for telecommunications equipment that serves the occupants of the building or multiple buildings in a campus environment. An equipment room is considered distinct from a telecommunications room because it is considered to be a building or campus serving (as opposed to floor serving) facility and because of the nature or complexity of the equipment that it contains.

## F

**Far-End Crosstalk (FEXT)** Crosstalk measured at the opposite end from which the disturbing signal is transmitted.

**Firestop** A material, device, or assembly of parts installed in a cable pathway at a fire-rated wall or floor to prevent passage of flame, smoke or gases through the rated barrier (e.g. between cubicles or separated rooms or spaces).

## G

**Ground** A conducting connection, whether intentional or accidental, between an electrical circuit (telecommunications) or equipment and earth, or to some conducting body that serves in place of the earth.

## H

**Hertz (Hz)** A measure of frequency as defined in units of cycles per second.

**Home-Run Cabling** A distribution method in which individual cables are run directly from the horizontal cross connect to each telecommunications outlet. This configuration is also known as “star topology”.

**Horizontal Cabling** The cabling between and including the telecommunications outlet and the horizontal cross-connect.

**Horizontal Cross-Connect (HC)** A cross connect of horizontal cabling to other cabling, e.g., horizontal, back bone, or equipment.

**Hub** Equipment that serves as the centralized connection point for a network or portion thereof. Hubs are used for multiplexing, multi-port bridging functions, switching and test access. They can be either passive or active and are not considered to be part of the cabling infrastructure.

**Hybrid Cable** An assembly of two or more cables, of the same or different types or categories, covered by one overall sheath.

## I

**Infrastructure** A collection of those telecommunications components, excluding equipment, that together provide the basic support for the distribution of all information within a building or campus.

### Insertion Loss

1. The loss resulting from the insertion of a device in a transmission line, expressed as the reciprocal of the ratio of the signal power delivered to that part of the line following the device to the signal power delivered to that same part before insertion.
2. In an optical fiber system, the loss of optical power caused by inserting a component, such as a connector, coupler or splice, into a previously continuous optical path.

**Insulation Displacement Connection (IDC)** A wire connection device that penetrates the insulation of a copper wire when it is being inserted (punched down) into a metal contact, allowing the electrical connection to be made.

**Intelligent Hub** A hub that performs bridging and routing functions in a collapsed backbone environment.

**Interbuilding Backbone** Telecommunications cable(s) that are part of the campus subsystem that connect one building to another.

**Interconnection** A connection scheme that provides direct access to the cabling infrastructure and the ability to make cabling system changes using equipment cords.

**Intermediate Cross-Connect (IC)** The connection point between a backbone cable that extends from the main cross connect (first-level backbone) and the backbone cable from the horizontal cross-connect (second-level backbone).

**Intermediate Distribution Frame (IDF)** In a central office or customer premises, a frame that (a) cross connects the user cable media to individual user line circuits and (b) may serve as a distribution point for multipair cables from the main distribution frame (MDF) to individual cables connected to equipment in areas remote from these frames.

**Intrabuilding Backbone** Telecommunications cable(s) that are part of the building subsystem that connect one equipment room to another.

## J

**Jumper Wire** An assembly of twisted pairs without connectors on either end used to join telecommunications links at a cross connect.

## K

**Keying** The mechanical feature of a connector system that guarantees correct orientation of a connection or prevents the connection to a jack, or to an optical fiber adapter of the same type intended for another purpose.

## L

**Link** An end-to-end transmission path provided by the cabling infrastructure. Cabling links include all cables and connecting hardware that comprise the horizontal or backbone subsystems. Equipment and work area cables are not included as part of a link.

**Local Area Network (LAN)** A geographically limited data communications system for a specific user group consisting of a group of interconnected computers, sharing applications, data and peripheral devices such as printers and drives intended for the local transport of data, video, and voice.

**Local Exchange Carrier (LEC)** The local regulated provider of public switched telecommunications services.

**Longitudinal Conversion Loss (LCL)** A measure (in dB) of the differential voltage induced on a conductor pair as a result of subjecting that pair to longitudinal voltage. LCL is considered to be a measure of circuit balance.

## M

**Main Cross Connect (MC)** A cross connect for first level backbone cables, entrance cables, and equipment cables.

**Modular Jack** A telecommunications outlet/connector for wire or cords as defined in the FCC Part 68 Subpart F. Modular jacks can have 4, 6 or 8 contact positions, but not all the positions need be equipped with contacts.

**Modular Plug** A telecommunications connector for wire or cords as defined in the FCC Part 68 Subpart F. Modular plugs can have 4, 6 or 8 contact positions, but not all the positions need be equipped with contacts.

**Multimedia**

1. An application that communicates to more than one of the human sensory receptors.
2. Applications that communicate information by more than one means or cabling media.

**Multimode Optical Fiber** An optical fiber that will allow many bound modes to propagate. The fiber may be either a graded index or step index fiber. Multimode optical fibers have a much larger core than single mode fibers.

**Multi-User Telecommunications Outlet Assembly (MUTOA)**

A grouping in one location of several telecommunications / outlet connectors.

**N**

**Nanosecond (ns)** One billionth of a second.

**Near-End Crosstalk (NEXT Loss)** The undesired coupling of a signal from one pair of wires to another. Signal distortion as a result of signal coupling from one pair to another at various frequencies.

**Network Demarcation Point** The point of interconnection between the local exchange carrier's telecommunication facilities and the telecommunications systems wiring and equipment as the end user's facility. This point shall be located on the subscriber side of the telephone company's protector or the equivalent thereof in cases where a protector is not required.

**O**

**Open Office Cabling** The cabling that distributes from the telecommunications closet to the open office area utilizing a consolidation point or multi-user telecommunications outlet assembly.

**Outlet, Telecommunications** A fixed connecting device where the horizontal cable terminates. The telecommunications outlet provides the interface to the work area cabling. Sometimes referred to as a telecommunications outlet/connector.

**P**

**Patch Cord** A length of cable with connectors on one or both ends used to join telecommunications links at a cross connect.

**Patch Panel** Connecting hardware that typically provides means to connect horizontal or backbone cables to an arrangement of fixed connectors that may be accessed using patch cords or equipment cords to form cross connections or interconnections.

**Pathway** A facility (i.e. conduit) for the placement and protection of telecommunications cables. Same as raceway or ducting.

**Plenum** A compartment or chamber to which one or more air ducts are connected and that forms part of the air distribution system.

**Power Sum Alien Far-End Crosstalk Loss (PSAFEXT)** Power sum of the unwanted signal coupling from multiple disturbing pairs of one or more 4-pair channels, permanent links, or components to a disturbed pair of another 4-pair channel, permanent link, or component, measured at the far-end.

**Power Sum Alien Near-End Crosstalk Loss (PSANEXT)** Power sum of the unwanted signal coupling from multiple disturbing pairs of one or more 4-pair channels, permanent links, or components to a disturbed pair of another 4-pair channel, permanent link, or component, measured at the near-end.

**Power Sum Attenuation to Alien Crosstalk Ratio Far-End (PSAACRF)** Difference, in dB, between the power sum alien far-end crosstalk from multiple disturbing pairs of one or more 4-pair channels, permanent links, or components and the insertion loss of the disturbed pair in another 4-pair channel permanent link or component. Previously referred to as power sum equal level far-end crosstalk (PSELFEXT) before 6A standard was released.

**Power Sum Equal Level Far-End Crosstalk (PSELFEXT)** A computation of the unwanted signal coupling from multiple transmitters at the near-end into a pair measured at the far-end, and normalized to the received signal level.

**Power Sum Near-End Crosstalk (PSNEXT)** A computation of the unwanted signal coupling from multiple transmitters at the near-end into a pair measured at the near-end.

**Private Branch Exchange (PBX)** A private switching system usually serving an organization, such as a business, located on the customer's premises. It switches calls both inside a building or premises and outside to the telephone network, and can sometimes provide access to a computer from a data terminal.

**Propagation Delay** The amount of time that passes between when a signal is transmitted and when it is received at the opposite end of a cable or cabling.

**Punch Down** A method for securing wire to a quick clip in which the insulated wire is placed in the terminal groove and pushed down with a special tool. As the wire is seated, the terminal displaces the wire insulation to make an electrical connection. The punch down operation may also trim the wire as it terminates. Also called cut down.

## Q

**Quick Clip** An electrical contact used to provide an insulation displacement connection to telecommunications cables.

## R

**Raceway** See Pathway

**Return Loss** Noise or interference caused by impedance discontinuities along the transmission line at various frequencies. Return loss is expressed in decibels.

**Ring Conductor** A telephony term used to describe one of the two conductors in a cable pair used to provide telephone service. This term was originally coined from its position as the second (ring) conductor of a tip-ring-sleeve switchboard plug.

## S

**Screen** An element of a cable formed by a shield.

**Shield** A metallic layer placed around a conductor or group of conductors.

**Star Topology**

1. A method of cabling each telecommunications outlet/connector directly to a cross connect in a horizontal cabling subsystem.
2. A method of cabling each cross connect (HC and IC) to the main cross connect (MC) in a backbone cabling subsystem.

**Surge** A rapid rise in current or voltage usually followed by a fall back to a normal level. Also referred to as transient.

## T

**Telecommunications** Any transmission, emission or reception of signs, signals, writings, images, sounds or information of any nature by cable, radio, visual, optical or other electromagnetic systems.

**Telecommunications Room (TR)** An enclosed space for housing telecommunications equipment, cable terminations and cross-connect cabling used to serve work areas located on the same floor. The telecommunications room is the typical location of the horizontal cross-connect and is considered distinct from an equipment room because it is considered to be a floor serving (as opposed to building or campus serving) facility.

**Telecommunications Industry Association (TIA)** An organization that sets standards for cabling, pathways, spaces, grounding, bonding, administration, field testing and other aspects of the telecommunications industry.

**Tip Conductor** A telephony term used to describe the conductor of a pair that is grounded at the central office when the line is idle. This term was originally coined from its position as the first (tip) conductor of a tip-ring-sleeve switchboard plug.

**Topology** The physical or logical layout of links and nodes in a network. These include star, ring and bus configurations.

**Transfer Impedance** A measure of shield effectiveness.

**Transition Point (TP)** A location in the horizontal cabling subsystem where flat undercarpet cabling connects to round cabling.

**Transverse Conversion Transfer Loss (TCTL)** A ratio of the measured common mode voltage on a pair relative to the differential mode voltage applied at the opposite end of the same pair, or on either end of another pair, expressed in dB.

**Trunk** A communication line between two switching systems. The term "switching systems" typically includes equipment in a central office (the telephone company) and PBXS. A tie trunk connects PBXS. Central office trunks connect a PBX to the switching system at the central office.

## U

**Unshielded Twisted Pair (UTP)** A cable with multiple pairs of twisted insulated copper conductors bound in a single sheath.

## W

**Work Area** The area where horizontal cabling is connected to the work area equipment by means of a telecommunication outlet. A station/desk which is served by a telecommunications outlet. Sometimes referred to as a "work station".

**Work Area Cable** A cable assembly used to connect equipment to the telecommunications outlet in the work area. Work area cables are considered to be outside the scope of cabling standards.

## Acronyms & Abbreviations

|        |                                                    |         |                                                            |
|--------|----------------------------------------------------|---------|------------------------------------------------------------|
| AACRF  | Attenuation to Alien Crosstalk Ratio Far-End       | LAN     | Local Area Network                                         |
| ACR    | Attenuation to Crosstalk Ratio                     | LC      | Lucent Connector                                           |
| ACRF   | Attenuation to Crosstalk Ratio Far-End             | LEC     | Local Exchange Carrier                                     |
| ACRN   | Attenuation to Crosstalk Ratio Near-End            | m       | Meter                                                      |
| AFEXT  | Alien Far End Crosstalk                            | MAC     | Moves, Adds and Changes                                    |
| ANEXT  | Alien Near End Crosstalk                           | μm      | Micron, one millionth of meter (0.000001); also micrometer |
| ANSI   | American National Standards Institute              | Mb/s    | Megabits per second                                        |
| ATM    | Asynchronous Transfer Mode                         | MC      | Main Cross Connect                                         |
| AWG    | American Wire Gauge                                | MHz     | Megahertz                                                  |
| AXT    | Alien Crosstalk                                    | MM      | Multimode                                                  |
| BER    | Bit Error Rate                                     | mm      | Millimeter                                                 |
| b/s    | Bits per second                                    | MT-RJ   | Mechanical Transfer Registered Jack                        |
| CM     | Common Mode                                        | MuTOA   | Multi-user Telecommunications Outlet Assembly              |
| CP     | Consolidation Point                                | NEC     | National Electrical Code                                   |
| CPE    | Customer Premises Equipment                        | NEMA    | National Electrical Manufacturers Association              |
| CSA    | Canadian Standards Association                     | NEXT    | Near End Crosstalk                                         |
| dB     | Decibel                                            | NFPA    | National Fire Protection Association                       |
| DD     | Distribution Device                                | Ω       | Ohm                                                        |
| EF     | Entrance Facility                                  | nm      | Nanometer                                                  |
| EIA    | Electronic Industries Alliance                     | PBX     | Private Branch Exchange                                    |
| ELFEXT | Equal Level Far End Crosstalk                      | PSAACRF | Power Sum Attenuation to Alien Crosstalk Ratio Far-End     |
| ELTCTL | Equal Level of Transverse Conversion Transfer Loss | PSACRF  | Power Sum Attenuation to Crosstalk Ratio, Far-End          |
| EMC    | Electromagnetic Compatibility                      | PSAFEXT | Power Sum Alien Far-End Crosstalk                          |
| EMI    | Electromagnetic Interference                       | PSANEXT | Power Sum Alien Near-End Crosstalk                         |
| EMR    | Electromagnetic Radiation                          | PSFEXT  | Power Sum Far-End Crosstalk                                |
| ER     | Equipment Room                                     | PSNEXT  | Power Sum Near-End Crosstalk                               |
| FCC    | Federal Communications Commission                  | PVC     | Polyvinyl Chloride                                         |
| ft     | Feet                                               | SC      | Subscription Channel                                       |
| FEXT   | Far end Crosstalk                                  | SFF     | Small Form Factor                                          |
| FUTP   | Foil (surrounding) Unscreened Twisted Pairs        | SM      | Single Mode                                                |
| Gb/s   | Gigabits per second                                | ST      | Straight Tip                                               |
| GHz    | Gigahertz                                          | STP     | Shielded Twisted Pair                                      |
| HC     | Horizontal Cross Connect                           | TCL     | Transverse Conversion Loss                                 |
| HVAC   | Heating, Ventilation and Air Conditioning          | TCTL    | Transverse Conversion Transfer Loss                        |
| Hz     | Hertz                                              | TIA     | Telecommunications Industry Association                    |
| IC     | Intermediate Cross Connect                         | TO      | Telecommunications Outlet                                  |
| IDC    | Insulation Displacement Connection                 | TP      | Transition Point                                           |
| IEC    | International Electrotechnical Commission          | UL      | Underwriters Laboratories Inc.                             |
| IEEE   | Institute of Electrical and Electronic Engineers   | USOC    | Universal Service Order Code                               |
| ISDN   | Integrated Services Digital Network                | UTP     | Unshielded Twisted Pair                                    |
| ISO    | International Standards Organization               | WA      | Work Area                                                  |
| Kb/s   | Kilobit per second                                 |         |                                                            |
| Km     | Kilometer                                          |         |                                                            |

## RESOURCES



LITPDNCS-CD

HellermannTyton's Network Cabling Solutions catalog is also available on an interactive CD and online at [www.hellermanntyton.us/literature.aspx](http://www.hellermanntyton.us/literature.aspx). This environmentally friendly version lets you browse through the catalog quickly and easily at the convenience of your computer. The "always up-to-date" interactive catalog features products developed from our global design team whose focus is to create solutions which continuously solve customers' problems and improve their businesses. In addition, the electronic catalog offers the latest product information and will link you to HellermannTyton websites and additional product specifications. To obtain a free copy of the Network Cabling Solutions interactive CD please request: LITPDNCS-CD.



htnetwork.com

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### ONLINE RESOURCES

<http://www.hellermanntyton.com>

HellermannTyton corporate website.

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<http://www.htnow.com>

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7930 N Faulkner Rd. P.O. Box 245017  
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Phone: 414.355.1130, 1.800.537.1512  
Fax: 414.355.7341, 1.800.848.9866  
Email: corp@htamericas.com

**TS16949, ISO 9001 and ISO 14001 certified**

**HellermannTyton Canada**

Unit #4, 205 Industrial Parkway North  
Aurora, Ontario L4G 4C4 Canada  
Phone: 1.800.661.2461  
Fax: 1.800.390.3904  
Email: sales@hellermanntyton.ca

**LITPDNCS**

**Rev. 3**

© HellermannTyton  
July 2012  
Printed in USA

**HellermannTyton Mexico**

Anillo Periferico Sur 7980 Edificio 2 - D  
Parque Industrial Tecnologico II  
Santa Maria Tequepexpan  
Tlaquepaque, Jalisco, Mexico 45601  
Phone: 011-52-33-3-133-9880  
Fax: 011-52-33-3-133-9861  
Email: info@hellermanntyton.com.mx

**ISO 9001 certified**

[www.hellermann.tyton.com](http://www.hellermann.tyton.com)

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