

# FIBER OPTIC PRODUCTS

CONNECTING THE POINTS FOR A COMPLETE SOLUTION

|                              |       |
|------------------------------|-------|
| Enclosures                   | 68-69 |
| Adapter Panels               | 70    |
| Fiber Splice Tray            | 70    |
| Fiber Optic Cable Assemblies | 71-72 |
| Connectors                   | 73    |
| Fiber Modules                | 74    |
| Accessories                  | 75-76 |



## Fiber Enclosures

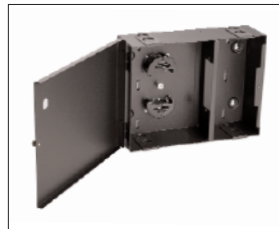
HellermannTyton offers rugged fiber enclosures in both wall mount and rack mount versions. Available in a variety of sizes, they can accommodate splicing or direct termination of fiber optic cables.

### 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 mounted 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 192 fibers. While offering easy-to-use front slide-out trays for easy 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 & 4U)
- Wire management rings
- Support post for splice trays
- Lanced tabs to support incoming jacketed fiber



FERM18S



FERM36S



FERM54S



FERM72S

### 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 FERMST      | 1.75"  | 17"   | 12.14" | 1U              | 15 lbs.         | 1         |
| 855-49201   | <b>FERM36S</b> | FERM36S | 36/48 Unloaded - Accepts 6 adapter panels and 2 FERMST      | 3.5"   | 17"   | 12.14" | 2U              | 17 lbs.         | 1         |
| 855-49202   | <b>FERM54S</b> | FERM54S | 54/72 Unloaded - Accepts 9 adapter panels and 3 FERMST      | 5.25"  | 17"   | 12.14" | 3U              | 19 lbs.         | 1         |
| 855-49203   | <b>FERM72S</b> | FERM72S | 72/96/144 Unloaded - Accepts 12 adapter panels and 4 FERMST | 7"     | 17"   | 12.14" | 4U              | 22 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  | 36   |
| <b>FERM36S (2U)</b> | 48 | 72  | 96  | 72   |
| <b>FERM54S (3U)</b> | 72 | 108 | 144 | 108  |
| <b>FERM72S (4U)</b> | 96 | 144 | 192 | 144  |

## Adapter Panels

In order to customize wall mount or rack mount fiber optic enclosures, HellermannTyton offers several panels with various adapters including LC, SC, ST and MTRJ. All modular adapter panels are assembled with industry standard adapters. The multimode/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. |
|-------------|------------------|-----------|----------------------------------------|--------|--------|-----------|
| 855-04212   | <b>FAP6DMMLC</b> | FAP6DMMLC | Panel with 6 Duplex LC MM/SM Adapters  | 5.09"  | 1.125" | 1         |
| 855-24200   | <b>FAP8DMMLC</b> | FAP8DMMLC | Panel with 8 Duplex LC MM/SM Adapters  | 5.09"  | 1.125" | 1         |
| 855-04211   | <b>FAP3DMMSC</b> | FAP3DMMSC | Panel with 3 Duplex SC MM/SM Adapters  | 5.09"  | 1.125" | 1         |
| 855-04213   | <b>FAP6DMMSC</b> | FAP6DMMSC | Panel with 6 Duplex SC MM/SM Adapters  | 5.09"  | 1.125" | 1         |
| 855-04216   | <b>FAP6SMMSC</b> | FAP6SMMSC | Panel with 6 Simplex SC MM/SM Adapters | 5.09"  | 1.125" | 1         |
| 855-04217   | <b>FAP8SMMSC</b> | FAP8SMMSC | Panel with 8 Simplex SC MM/SM Adapters | 5.09"  | 1.125" | 1         |
| 855-04214   | <b>FAP6MMST</b>  | FAP6MMST  | Panel with 6 ST MM/SM Adapters         | 5.09"  | 1.125" | 1         |
| 855-04218   | <b>FAP8SMMST</b> | FAP8SMMST | Panel with 8 Simplex ST MM/SM 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.



FAP6DMMLC



FAP8DMMLC



FAP3DMMSC



FAP6DMMSC



FAP6SMMSC



FAP8SMMSC



FAP6MMST



FAP8SMMST



FAP6MTRJ



FAPB

## Fiber Splice Tray

To provide organization and protection of 12 or 24 fusion splices in the rack mount enclosures, HellermannTyton offers 2 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 (H) | Width (W) | Depth (D) | 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-ST



ST-ST



ST-SC



SC-SC



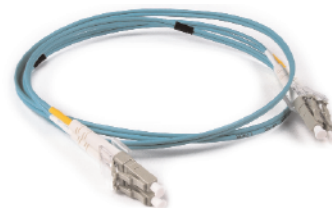
MTRJ-SC

## 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

## 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.

Product Selection

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

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



FCSC



FCSCSM



FCST



FCSTSM



FCLC

Fiber Modules

ST, SC, LC and MTRJ multimode/single mode fiber optic adapter modules insert into HellermannTyton's standard flush wallplates. Also available is a SC Duplex adapter insert for HellermannTyton's modular faceplates, found on page 38.

| Product Selection |                |             |                        |           |             |
|-------------------|----------------|-------------|------------------------|-----------|-------------|
| Article No.       | Part No.       | Type        | Description            | Pkg. Qty. | Carton Qty. |
| 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          |
| 854-44280         | 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          |
| 854-44238         | 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          |
| 854-44241         | 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.



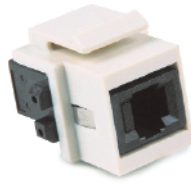
ST



SC



LC Duplex



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 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 <b>Part No.</b> for ordering and <b>Type</b> 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. With 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 <b>Part No.</b> for ordering and <b>Type</b> 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), Needle tips (20).



### Product Selection

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

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