

## ***SECURE Fiber Optic Products***

**LC SECURE**  
Fiber Optic Products  
(Pages 9 and 10)



**LC SECURE Connectors, Cable Assemblies and Adapters**

**MPO SECURE**  
Fiber Optic Products  
(Pages 11 and 12)



**MPO SECURE Cable Assemblies and Cassettes**

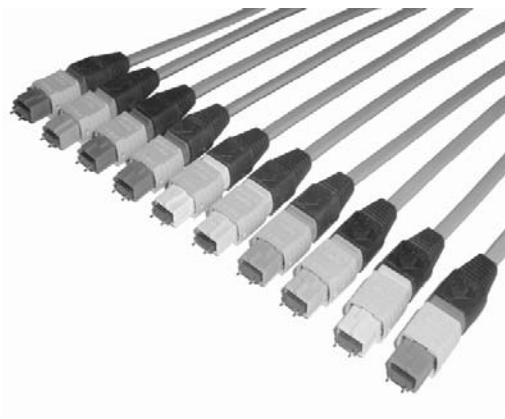
**MT-RJ SECURE**  
Fiber Optic Products  
(Page 13)



**MT-RJ SECURE Cable Assemblies and Outlet Jacks**

**Ten variants in ten colors  
offered in two new  
interfaces**

## Expanded SECURE Connector Product Line Includes MPO and LC Interfaces



Tyco Electronics has expanded its SECURE connector product offering to include both MPO and LC interfaces. Through the use of ten different color/key variations, customers operating multiple networks in common areas can physically segregate their network throughout the system, from the backbone to the equipment panel.

Primary colors and keys are available in red, blue, yellow and green, with additional, secondary options for up to ten different color/keying configurations. Only connectors and adapters of the same color will intermate, and no standard product can plug into a secure adapter.

The LC SECURE product is compatible with both jack-

eted and buffered fiber. It is available in both LIGHTCRIMP PLUS and standard epoxy/polish styles for singlemode and multimode fibers. Each connector features a color-coded key that will only mate with like-colored adapters to minimize connection to the wrong networks. Standard colors include red, blue, green and yellow. An additional six colors are available as needed.

The MPO SECURE products are available in the same colors and are compatible with color-coded MPO SECURE cassettes. Standard MPO SECURE trunk cables are available in fiber counts to 72 fibers. MPO SECURE cassettes are available as twelve or

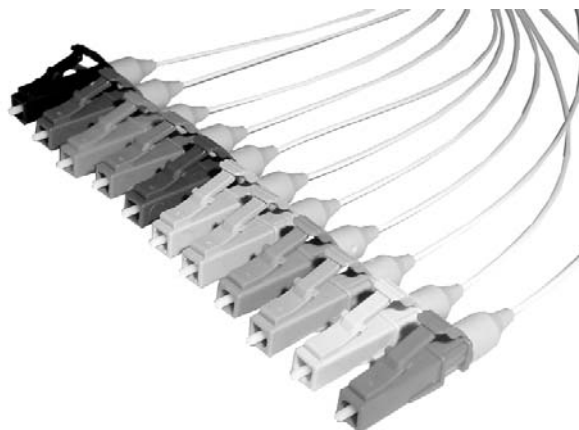
twenty-four fiber assemblies. Cables and cassettes are available with 50µm, XG and 62.5µm multimode fiber.

The success of the MT-RJ SECURE product line has fostered growing interest in the SECURE product concept. The addition of the LC and MPO interfaces to the AMP NETCONNECT SECURE product portfolio will allow a wider adoption of the concept and allow more customers to take advantage of the benefits the system offers.

A complete line of connectivity, cable assemblies, and cables are available for MT-RJ SECURE, LC SECURE and MPO SECURE. See pages 9-13 for details.

# **LIGHTCRIMP PLUS and Epoxy Style LC Product Facts**

- **LIGHTCRIMP PLUS—**  
No Epoxy/No Polish strip,  
cleave and crimp
- **LC small form factor design**  
is half the size of SC
- **10 exclusive connector**  
variants
- **Color coded plugs &  
adapters match MT-RJ &  
MPO SECURE offerings**
- **LIGHTCRIMP PLUS—**  
Termination to 250 or  
900  $\mu$ m tight-buffered fiber  
using standard tooling
- **Epoxy Style—Termination**  
to 250 or 900  $\mu$ m tight-  
buffered fiber 1.6 – 2.0 mm  
jacketed fiber
- **Epoxy Style—Suitable for**  
use with heat-cured or  
anaerobic (quick cure)  
epoxies (See instruction  
sheet for recommended  
anaerobic epoxies)
- **Product qualification to**  
TIA/EIA 568-B.3
- **Field installable duplex clip**  
(black) for polarity  
correction if needed
- **Plug nose features can**  
provide up to 70 mutually  
exclusive keying  
combinations
- **Distinct keyway geometry**  
on plug nose & color coding  
assures identifiable key-type
- **Extended lugs on plug side-**  
walls prevent SECURE  
connectors from mating with  
non-secure adapters
- **Molded internal geometry**  
produces tamper resistant  
system
- **Key placement allows**  
SECURE plugs to interface  
with standard 1.25 mm test  
equipment, inspection  
microscopes and  
application tooling



## **LIGHTCRIMP PLUS LC SECURE Kits**

| Color  | Simplex<br>50/125<br>MM SECURE | Simplex<br>50/125 XG<br>MM SECURE | Simplex<br>62.5/125<br>MM SECURE | Simplex<br>SM SECURE | Notes   |
|--------|--------------------------------|-----------------------------------|----------------------------------|----------------------|---------|
| Red    | 1828853-1                      | 1828854-1                         | 1828855-1                        | 1828856-1            | Primary |
| Yellow | 1828853-2                      | 1828854-2                         | 1828855-2                        | 1828856-2            | Primary |
| Green  | 1828853-3                      | 1828854-3                         | 1828855-3                        | 1828856-3            | Primary |
| Blue   | 1828853-4                      | 1828854-4                         | 1828855-4                        | 1828856-4            | Primary |
| Rose   | 1828853-5                      | 1828854-5                         | 1828855-5                        | 1828856-5            |         |
| Aqua   | 1828853-6                      | 1828854-6                         | 1828855-6                        | 1828856-6            |         |
| Brown  | 1828853-7                      | 1828854-7                         | 1828855-7                        | 1828856-7            |         |
| Violet | 1828853-8                      | 1828854-8                         | 1828855-8                        | 1828856-8            |         |
| Orange | 1828853-9                      | 1828854-9                         | 1828855-9                        | 1828856-9            |         |
| Slate  | 1-1828853-0                    | 1-1828854-0                       | 1-1828855-0                      | 1-1828856-0          |         |

Highlighted Part Numbers are routinely stocked for shortest lead times.

## **Epoxy Style LC Kits**

| Color  | Simplex<br>Jumper<br>Multimode | Simplex<br>Jumper<br>Singlemode | Simplex<br>Buffer<br>Multimode | Simplex<br>Buffer<br>Singlemode | Notes   |
|--------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------|
| Red    | 1828078-1                      | 1828079-1                       | 1828861-1                      | 1828862-1                       | Primary |
| Yellow | 1828078-2                      | 1828079-2                       | 1828861-2                      | 1828862-2                       | Primary |
| Green  | 1828078-3                      | 1828079-3                       | 1828861-3                      | 1828862-3                       | Primary |
| Blue   | 1828078-4                      | 1828079-4                       | 1828861-4                      | 1828862-4                       | Primary |
| Rose   | 1828078-5                      | 1828079-5                       | 1828861-5                      | 1828862-5                       |         |
| Aqua   | 1828078-6                      | 1828079-6                       | 1828861-6                      | 1828862-6                       |         |
| Brown  | 1828078-7                      | 1828079-7                       | 1828861-7                      | 1828862-7                       |         |
| Violet | 1828078-8                      | 1828079-8                       | 1828861-8                      | 1828862-8                       |         |
| Orange | 1828078-9                      | 1828079-9                       | 1828861-9                      | 1828862-9                       |         |
| Slate  | 1-1828078-0                    | 1-1828079-0                     | 1-1828861-0                    | 1-1828862-0                     |         |

Highlighted Part Numbers are routinely stocked for shortest lead times.

**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

**LC SECURE Product Offering** (Continued)

**LC Duplex Adapters**  
**Product Facts**

- Flange mount, flangeless, and SL Series configurations
- High quality ceramic sleeves
- Suitable for singlemode and multimode
- Key and color compatible to Epoxy Style and LIGHTCRIMP PLUS Product
- Universal Hybrid Adapters: includes universal adapter half, allows standard LC plugs to be used Behind The Wall or Inside The Box



**LC Duplex Adapters**

| Color  | SECURE Adapter Flanged | SECURE Adapter Flangeless | SECURE Adapter SL | Notes   |
|--------|------------------------|---------------------------|-------------------|---------|
| Red    | 1828073-1              | 1828074-1                 | 1828075-1         | Primary |
| Yellow | 1828073-2              | 1828074-2                 | 1828075-2         | Primary |
| Green  | 1828073-3              | 1828074-3                 | 1828075-3         | Primary |
| Blue   | 1828073-4              | 1828074-4                 | 1828075-4         | Primary |
| Rose   | 1828073-5              | 1828074-5                 | 1828075-5         |         |
| Aqua   | 1828073-6              | 1828074-6                 | 1828075-6         |         |
| Brown  | 1828073-7              | 1828074-7                 | 1828075-7         |         |
| Violet | 1828073-8              | 1828074-8                 | 1828075-8         |         |
| Orange | 1828073-9              | 1828074-9                 | 1828075-9         |         |
| Slate  | 1-1828073-0            | 1-1828074-0               | 1-1828075-0       |         |

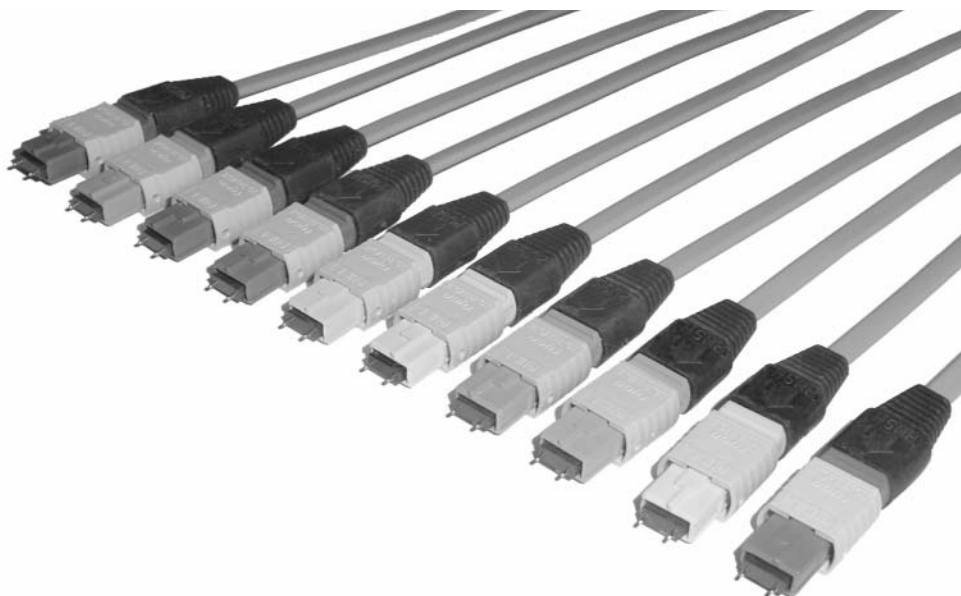
Highlighted Part Numbers are routinely stocked for shortest lead times.

**Note:** Part Numbers are RoHS compliant except::♦ Indicates non-RoHS compliant.

## MPO SECURE Trunk Cable Assemblies

### Product Facts

- Feature color-coded, keyed designs to limit improper connections in segregated or SECURE networks
  - MPO SECURE plug only mates with same color MPO SECURE port
- Trunk cable fiber polarity is pair-flipped (AB/BA)
  - Trunk cables with straight-through polarity (AB/BA) are available
- Pulling socks protect MPO terminations during installation
- Twelve (12) fibers per MPO SECURE plug
- Trunk cables come pre-tested and ready for immediate use
- MPO SECURE trunk cables are plenum cables
  - Plenum cables can be used in riser spaces
- Additional counts and lengths are available
- For use with MPO SECURE Cassettes listed on this page only



| Description | Fiber Type                              | SECURE Color/Keying | Part Number |
|-------------|-----------------------------------------|---------------------|-------------|
| 12-Fiber    | 50/125 $\mu$ m Multimode                | Red                 | 6754273-X   |
|             |                                         | Yellow              | 6754276-X   |
|             |                                         | Green               | 6754274-X   |
|             |                                         | Blue                | 6754275-X   |
|             | XG (850 nm LO 50/125 $\mu$ m) Multimode | Red                 | 6754420-X   |
|             |                                         | Yellow              | 6754421-X   |
|             |                                         | Green               | 6754422-X   |
|             |                                         | Blue                | 6754423-X   |
|             | 62.5/125 $\mu$ m Multimode              | Red                 | 6754269-X   |
|             |                                         | Yellow              | 6754272-X   |
|             |                                         | Green               | 6754270-X   |
|             |                                         | Blue                | 6754271-X   |
| 24-Fiber    | 50/125 $\mu$ m Multimode                | Red                 | 6754281-X   |
|             |                                         | Yellow              | 6754284-X   |
|             |                                         | Green               | 6754282-X   |
|             |                                         | Blue                | 6754283-X   |
|             | XG (850 nm LO 50/125 $\mu$ m) Multimode | Red                 | 6754424-X   |
|             |                                         | Yellow              | 6754425-X   |
|             |                                         | Green               | 6754426-X   |
|             |                                         | Blue                | 6754427-X   |
|             | 62.5/125 $\mu$ m Multimode              | Red                 | 6754277-X   |
|             |                                         | Yellow              | 6754280-X   |
|             |                                         | Green               | 6754278-X   |
|             |                                         | Blue                | 6754279-X   |

X denotes length in feet: -1 = 10, -2 = 20, -3 = 30, -4 = 40, -5 = 50, -6 = 60, -7 = 70, -8 = 80, -9 = 90, 1- -0 = 100, 1- -1 = 110, 1- -2 = 120, 1- -3 = 130, 1- -4 = 140, 1- -5 = 150, 1- -6 = 160, 1- -7 = 170, 1- -8 = 180, 1- -9 = 190, 2- -0 = 200, 2- -1 = 210, 2- -2 = 220, 2- -3 = 230, 2- -4 = 240, 2- -5 = 250, 2- -6 = 260, 2- -7 = 270, 2- -8 = 280, 2- -9 = 290, 3- -0 = 300

**Note:** Part Numbers are RoHS compliant except::◆ Indicates non-RoHS compliant.

# MPO SECURE Optical Fiber Cassettes

## Product Facts

- Cassette fiber polarity is pair-flipped (AB/BA)
  - Cassettes with straight-through polarity (AB/AB) are available
- Cassettes have one MPO connection (12-Fiber) or two MPO connections (24-Fiber) on the back of each cassette
- Cassettes house MPO one or two 12-fiber break-out assemblies
- Cassettes have same footprint as Snap-in Adapter Plates
  - Mount in all AMP NETCONNECT enclosures that accept Snap-in Adapter Plates
- Cassettes come pre-tested and ready for immediate use
- MPO SECURE cassettes accept one or two MPO SECURE connectors and transition to the same color MT-RJ SECURE connectors
- MPO SECURE plug only mates with same color MPO SECURE port
- For use only with MPO SECURE Trunk Cable Assemblies on this page



| Description                | Fiber Count | Duplex Port Count | Part Number |
|----------------------------|-------------|-------------------|-------------|
| 50/125 $\mu$ m Multimode   | 12          | 6                 | 1754286-X◆  |
|                            | 24          | 12                | 1754288-X◆  |
| 62.5/125 $\mu$ m Multimode | 12          | 6                 | 1754285-X◆  |
|                            | 24          | 12                | 1754287-X◆  |

X denotes: -1 = Standard, -2 = Red, -3 = Green, -4 = Blue, -5 = Yellow

**Note:** Part Numbers are RoHS compliant except:◆ Indicates non-RoHS compliant.

## MT-RJ SECURE Product Expansion — Now 10 Variants of the MT-RJ SECURE Products



In response to several customers, the MT-RJ SECURE product line has been expanded with an additional six color/key versions. In addition to the original four colors (blue, green, red and yellow), the six new colors (brown, rose, aqua, violet, slate and orange) now make for ten variations. In keeping with the MT-RJ SECURE products features, only plugs and jacks of the same color will mate, and none of the MT-RJ SECURE products will mate with the standard versions. A complete line of jacks, cable assemblies and colored cables are available. For more information see pages 64, 65, 101 and 102.

