Table of Contents

Cable Assemblies & Backplane Interconnects

Cable Assemblies

Backplane Interconnects

LIGHTRAY OFX Optical Fiber Circuit

(See Fiber Management, Packages Solutions, Sub Systems, and Laser Process Section 3, pages 155, 156)

Catalog 1307895
Revised 11-07

www.tycoelectronics.com

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USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 31-73-624-6639

Active Optical Cable Assemblies

NEW

InfiniBand 4x DDR Active Optical Cable Assemblies

Product Facts

- 4 transmit and 4 receive channels at up to 5 Gb/s per channel)
- Industry standard (SFF-8470) electrical connector (aka InfiniBand 4x, CX-4)
- Internally terminated optics — no optical connector to clean
- Differential data I/O per InfiniBand version 1.2.1
- Asynchronous, internally AC coupled inputs and outputs
- Passively cooled design — low thermal resistance heat path from chip to connector shell
- <1 Watt power consumption
- Small diameter cable (2 mm)
- Light weight
- Tight bend radius

Tyco Electronics' active optical cables use state-of-the-art technology to provide cost effective high data throughput interconnects. The cables incorporate E/O and O/E conversion built into the connector shell to yield a dramatic improvement in PCB real estate utilization.

Using 850nm VCSELS, it can be operated from 2.5 Gb/s to 5 Gb/s per channel. At 5 Gb/s this provides aggregate full duplex throughput of 20 Gb/s. They are available in lengths up to 100 meters using 50 micron MM fiber[1]. The OEO circuitry is designed for use with 8B/10B encoded data streams, such as InfiniBand, Fibre Channel, and XAUI.

3.3 Volt power is supplied through a pin (G8) dedicated for this purpose as described in InfiniBand Specification Version 1.2.1. Pin G7 is the voltage sense pin and is tied internally to ground through a 5K ohm resistor

[1] Short lengths use standard multi-mode fiber, longer lengths use laser optimized (OM3) fiber

Applications

- High Performance Computing Clusters
- Supercomputers
- High end servers
- Mass storage
- Metro network switch/cross connect
- High end carrier class routers
- DDR InfiniBand
- Other 2.5–5.0 Gb/s Applications (e.g. 10 Gb Fibre Channel or 10 Gig Ethernet XAUI on ports providing InfiniBand pinout 3.3 V power

Electrical/Optical

- 20 Gb/s bidirectional — 40 Gb/s offered in future
- Compatible with InfiniBand SDR and DDR
- Power consumption per end 1 watt

Mechanical/Environmental

- Up to 200 meters
- 25 mm bend radius
- Operating temperature 0°C to 60°C
- Storage Temperature -25°C to 70°C
- 4 channels each direction
- FCC Class B

Materials

- OFNR/CSA-FT-6 (plenum) cable
- OFN-LS (LSZH rated) cable

Standards

- InfiniBand SDR and DDR

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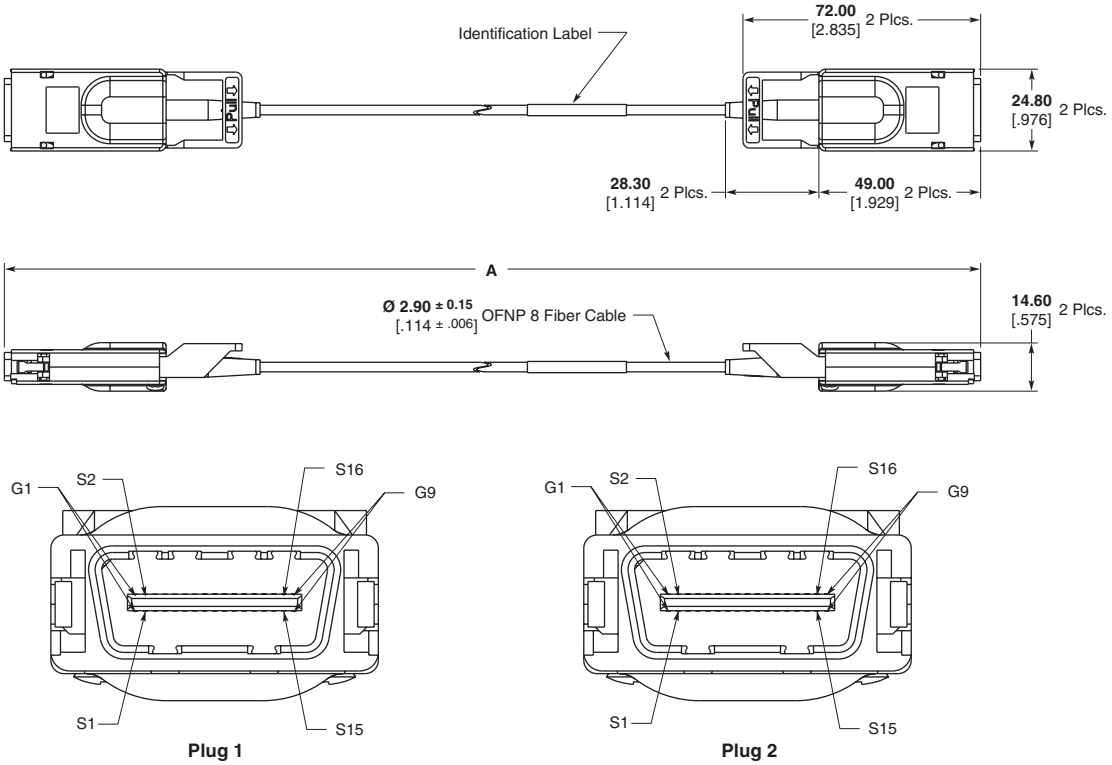
Active Optical Cable Assemblies (Continued)



Part Number	Length (meters)	Style
1985427-1	3	Standard
1985427-2	5	
1985427-3	10	
1985427-4	20	
1985427-5	30	
1985427-6	40	
1985427-7	50	
1985427-8	100	
1984462-1	3	Low Smoke Zero Halogen (LSZH)
1984462-2	5	
1984462-3	10	
1984462-4	20	
1984462-5	30	
1984462-6	40	
1984462-7	50	
1984462-8	100	

Note: Longer lengths available upon request.

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LC Cable Assemblies

Product Facts

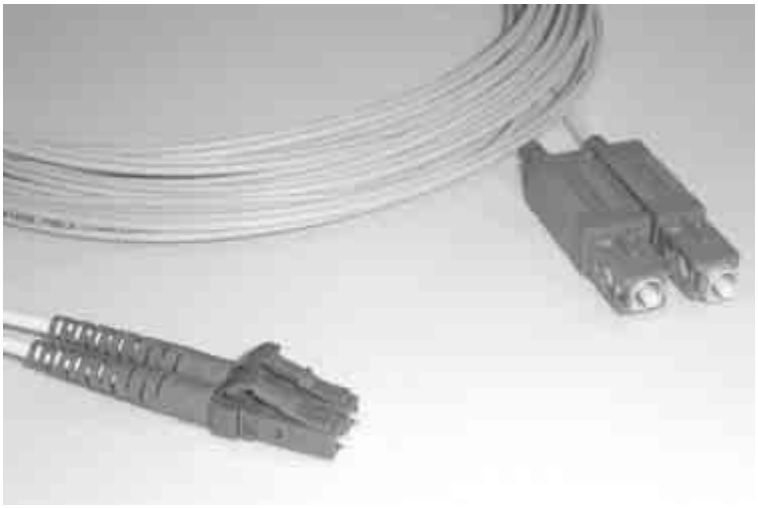
- For high performance applications/high density
- 125 µm Ceramic Ferrule Technology
- Small size — 1/2 size of standard SC and FC products
- Singlemode and multimode
- Tuned singlemode assemblies
- High performance small size cable
  - 900 µm buffered fiber assemblies
  - 2.0 mm cable assemblies
- Hybrid assemblies available with all standard connectors
- Hybrid SC's and FC's terminated to 2.0 mm cable and 900 µm buffered fiber
- Factory terminated/factory tested

LC Cable Assembly

Performance Characteristics

Insertion Loss —
Singlemode — .25 dB max.; < .1 dB typ.
Multimode — .1 dB typ.;
.1 dB typ. σ

Return Loss —
Singlemode — 55 dB; PC endface
Multimode — 20 dB



Hybrid LC-SC Cable Assembly

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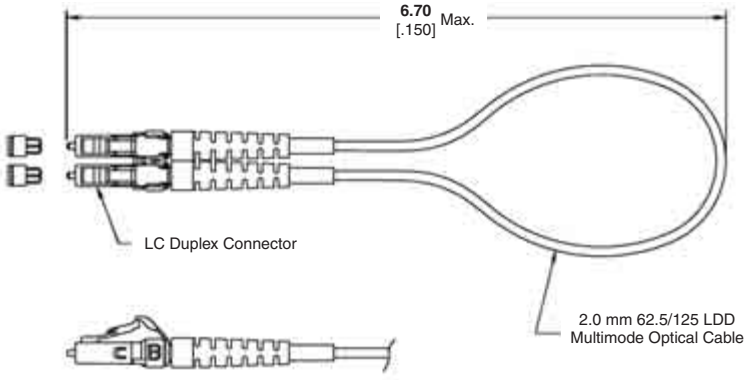
LC Cable Assemblies (Continued)

Description		Cable Type	Part Numbers/Lengths (m)					
			1	2	3	4	5	10
Simplex								
Singlemode	LC to LC	900 micron	6374518-1	6374518-2	6374518-3	6374518-4	6374518-5	1-6374518-0
		2.0 mm Jacketed Riser	6374110-1	6374110-2	6374110-3	6374110-4	6374110-5	1-6374110-0
	LC to SC	900 micron	6374610-1	6374610-2	6374610-3	6374610-4	6374610-5	1-6374610-0
		2.0 mm Jacketed Riser	6374611-1	6374611-2	6374611-3	6374611-4	6374611-5	1-6374611-0
50/125 µm Multimode	LC to LC	2.0 mm Jacketed Riser	6374656-1	6374656-2	6374656-3	6374656-4	6374656-5	1-6374656-0
	LC to SC	2.0 mm Jacketed Riser	6374612-1	6374612-2	6374612-3	6374612-4	6374612-5	1-6374612-0
62.5/125 µm Multimode	LC to LC	900 micron	6374108-1	6374108-2	6374108-3	6374108-4	6374108-5	1-6374108-0
		2.0 mm Jacketed Riser	6374109-1	6374109-2	6374109-3	6374109-4	6374109-5	1-6374109-0
	LC to SC	2.0 mm Jacketed Riser	6374614-1	6374614-2	6374614-3	6374614-4	6374614-5	1-6374614-0
Duplex								
Singlemode	LC to LC	2.0 mm Jacketed Riser	6374657-1	6374657-2	6374657-3	6374657-4	6374657-5	6374657-6
	LC Duplex to SC Duplex	2.0 mm Jacketed Riser	6457072-1	6457072-2	6457072-3	6457072-4	6475072-5	1-6457072-0
	2 LC Simplex to 2 SC Simplex	2.0 mm Jacketed Riser	6374515-1	6374515-2	6374515-3	6374515-4	6374515-5	1-6374515-0
	LC to ST	2.0 mm Jacketed Riser	6457207-1	6457207-2	6457207-3	—	6457207-5	1-6457207-0
	LC to MT-RJ	1.8 mm Jacketed Riser	6374645-1	6374645-2	6374645-3	6374645-4	6374645-5	1-6374645-0
50/125 µm Multimode	LC to LC	2.0 mm Jacketed Riser	6374658-1	6374658-2	6374658-3	6374658-4	6374658-5	1-6374658-2
	LC to SC	2.0 mm Jacketed Riser	6374613-1	6374613-2	6374613-3	6374613-4	6374613-5	1-6374613-0
	LC to ST	2.0 mm Jacketed Riser	1906822-1	1906822-2	1906822-3	1906822-4	1906822-5	1-1906822-0
	LC to MT-RJ	1.8 mm Jacketed Riser	6374647-1	6374647-2	6374647-3	6374647-4	6374647-5	1-6374647-0
Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	LC to LC	2.0 mm Aqua Jacketed Riser	6828317-1	6828317-2	6828317-3	6828317-4	6828317-5	1-6828317-0
	LC to SC	2.0 mm Aqua Jacketed Riser	6828318-1	6828318-2	6828318-3	—	6828318-5	1-6828318-0
		2.0 mm Orange Jacketed Riser	6754384-1	6754384-2	6754384-3	6754384-4	6754384-5	1-6754384-0
62.5/125 µm Multimode	LC to LC	2.0 mm Jacketed Riser	6374659-1	6374659-2	6374659-3	6374659-4	6374659-5	1-6374659-0
	LC to SC	2.0 mm Jacketed Riser	6374615-1	6374615-2	6374615-3	6374615-4	6374615-5	1-6374615-0
	LC to ST	2.0 mm Jacketed Riser	6457104-1	6457104-2	6457104-3	—	6457104-5	1-6457104-0
	LC to MT-RJ	1.8 mm Jacketed Riser	6374646-1	6374646-2	6374646-3	6374646-4	6374646-5	1-6374646-0

LC Loopbacks



Description		Part Number
LC Loopback	Singlemode	6457047-1
	Multimode 62.5/125 µm	6457048-1
	Multimode 50/125 µm	6457049-1

Note: All part numbers are RoHS compliant.

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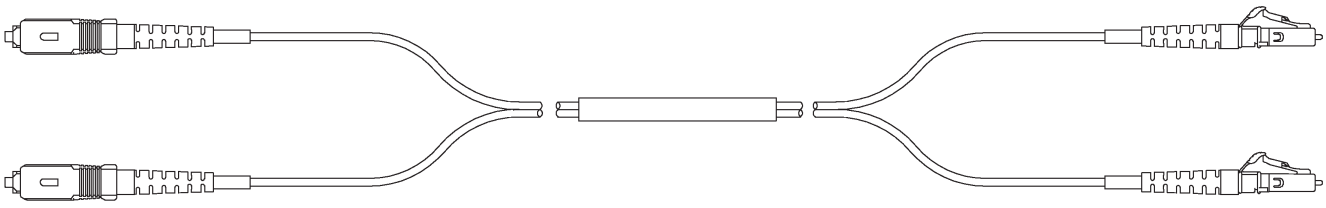
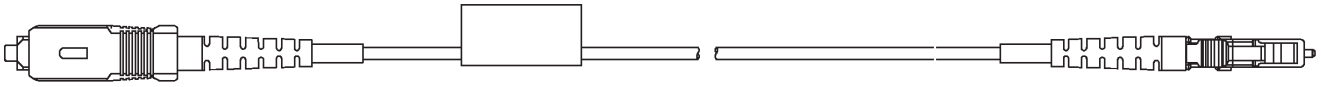
LC Cable Assemblies (Continued)

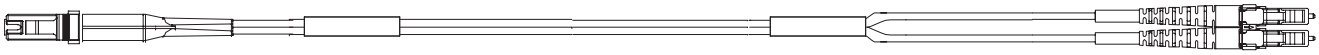
2.0 mm ZIPCORD, Singlemode
LC Simplex to SC Simplex



LC to Simplex SC
2.0 mm cable

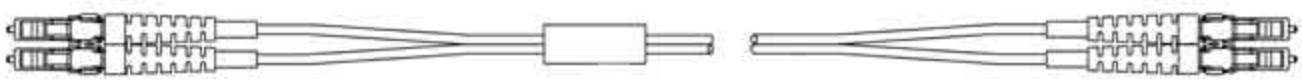


LC Duplex to MT-RJ



LC Simplex to SC
on 900 µm buffered fiber

LC Duplex to LC Duplex



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LC SECURE Cable Assemblies

Product Facts

- LC SECURE Plugs mate with like-colored LC SECURE adapters only (see page 10)
- Ten exclusive connector variants
- Color coded assemblies match MT-RJ and MPO SECURE offerings (see pages 107 and 108)
- Distinct keyway geometry on plug nose and color coding assures identifiable key-type
- Black boots for 50/125 standard, beige for 62.5/125 multimode, blue for singlemode, and aqua for 50/125 Laser Optimized (10 Gig)
- Standard cable is 2 mm zipcord
- Standard jacket color is yellow for singlemode, orange for multimode, and aqua for Laser Optimized (10 Gig) multimode (850 nm 50/125 µm)
- Other configurations are available

LC SECURE Color	Fiber Type	Part Numbers			
		MT-RJ	SC	LC	ST
Red	50/125 µm Multimode	1907114-X	1905992-X	1906012-X	1906002-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907134-X	1906070-X	1906090-X	1905079-X
	62.5/125 µm Multimode	1907124-X	1828872-X	1906051-X	1906080-X
	Singlemode	1906904-X	1905089-X	1905109-X	1905099-X
Yellow	50/125 µm Multimode	1907116-X	1905994-X	1906014-X	1906004-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907136-X	1906072-X	1906092-X	1906082-X
	62.5/125 µm Multimode	1907126-X	1828871-X	1906053-X	1906043-X
	Singlemode	1906906-X	1905091-X	1905111-X	1905101-X
Green	50/125 µm Multimode	1907117-X	1905995-X	1906015-X	1906005-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907137-X	1906073-X	1906093-X	1906083-X
	62.5/125 µm Multimode	1907127-X	1828870-X	1906054-X	1906044-X
	Singlemode	1906907-X	1905092-X	1905112-X	1905102-X
Blue	50/125 µm Multimode	1907115-X	1905993-X	1906013-X	1906003-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907135-X	1906071-X	1906091-X	1906081-X
	62.5/125 µm Multimode	1907125-X	1828875-X	1906052-X	1906042-X
	Singlemode	1906905-X	1905090-X	1905110-X	1905100-X
Orange	50/125 µm Multimode	1907118-X	1906996-X	1906016-X	1906006-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907138-X	1906074-X	1906094-X	1906084-X
	62.5/125 µm Multimode	1907128-X	1906035-X	1906055-X	1906045-X
	Singlemode	1906908-X	1905093-X	1905113-X	1905103-X
Brown	50/125 µm Multimode	1907121-X	1906999-X	1906019-X	1906009-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907141-X	1906077-X	1906097-X	1906087-X
	62.5/125 µm Multimode	1907131-X	1906038-X	1906058-X	1906048-X
	Singlemode	1906911-X	1905096-X	1905116-X	1905106-X
Slate	50/125 µm Multimode	1907123-X	1906001-X	1906021-X	1906011-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907143-X	1906079-X	1906099-X	1906089-X
	62.5/125 µm Multimode	1907133-X	1828283-X	1906060-X	1906050-X
	Singlemode	1906913-X	1906040-X	1905118-X	1905108-X
Violet	50/125 µm Multimode	1907120-X	1905998-X	1906018-X	1906008-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907140-X	1906076-X	1906096-X	1906086-X
	62.5/125 µm Multimode	1907130-X	1906037-X	1906057-X	1906047-X
	Singlemode	1906910-X	1905095-X	1905115-X	1905105-X
Rose	50/125 µm Multimode	1907119-X	1905997-X	1906017-X	1906007-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907139-X	1906075-X	1906095-X	1906085-X
	62.5/125 µm Multimode	1907129-X	1906036-X	1906056-X	1906046-X
	Singlemode	1906909-X	1905094-X	1905114-X	1905104-X
Aqua	50/125 µm Multimode	1907122-X	1906000-X	1906020-X	1906010-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	1907142-X	1906078-X	1906098-X	1906088-X
	62.5/125 µm Multimode	1907132-X	1906039-X	1906059-X	1906049-X
	Singlemode	1906912-X	1905097-X	1905117-X	1905107-X

Note: All part numbers are RoHS compliant.

Note: X denotes length in meters: -1 = 1, -2 = 2, -3 = 3, -5 = 5, 1- -0 = 10

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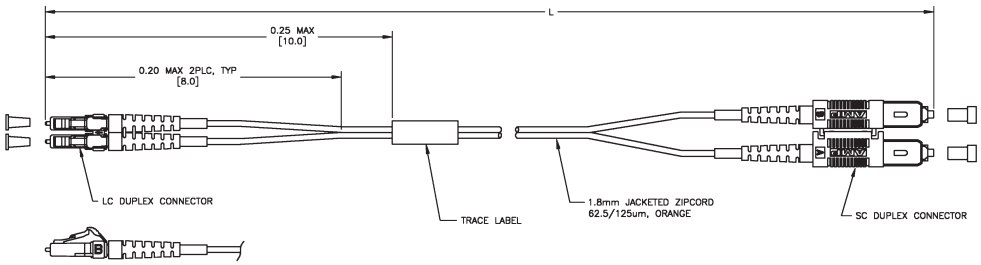
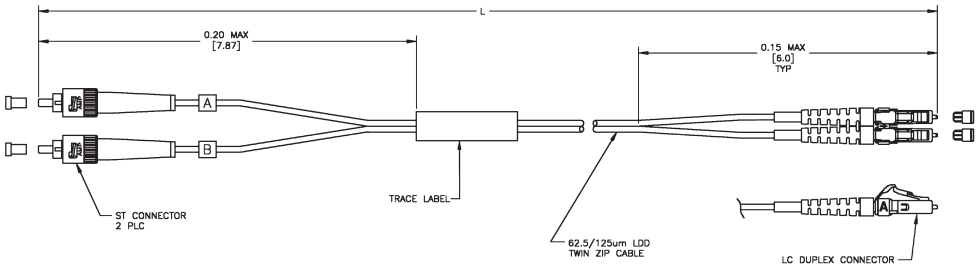
LC SECURE Cable Assemblies (Continued)

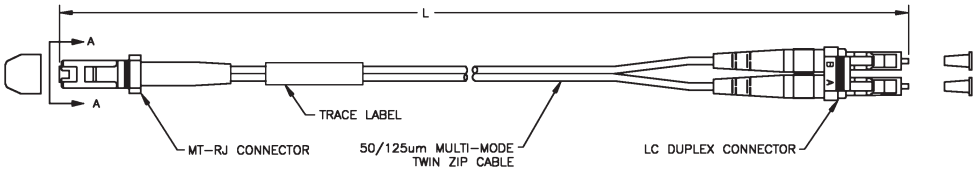
LC SECURE Duplex to SC Duplex



LC SECURE Duplex to Dual ST



LC SECURE Duplex to MT-RJ



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MT-RJ SECURE Cable Assemblies

Product Facts

- **MT-RJ SECURE plugs only mate with same-colored MT-RJ SECURE jacks**
- **MT-RJ SECURE Cable Assemblies have one MT-RJ SECURE plug on one end and a standard MT-RJ plug on the other end; other constructions are available (Contact your local Tyco Electronics sales representative for part numbers)**
- **Each assembly is a duplex (two-fiber) assembly**
- **Cable assemblies are riser-rated, other constructions are available (Contact your local Tyco Electronics sales representative for details)**
- **SC and LC connectors feature ceramic ferrules**
- **Jacket of cable assemblies comes in orange for multimode and yellow for singlemode, other color options are available**

MT-RJ SECURE Cable Assemblies and Patch Cord Part Numbers

MT-RJ SECURE Color	Fiber Type	Part Numbers			
		MT-RJ	SC	LC	ST
Red	50/125 µm Multimode	6278873-X	6278126-X	1907396-X	6278881-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6754406-X	6754410-X	1918667-X	1918701-X
	62.5/125 µm Multimode	6278890-X	6278894-X	6828104-X	6278898-X
	Singlemode	6918733-X	6918734-X	1918668-X	1918702-X
Yellow	50/125 µm Multimode	6278874-X	6278878-X	1918669-X	6278882-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6754407-X	6754411-X	1918670-X	1918703-X
	62.5/125 µm Multimode	6278891-X	6278895-X	6828923-X	6278899-X
	Singlemode	6918735-X	6918736-X	1918671-X	1918704-X
Green	50/125 µm Multimode	6278875-X	6278879-X	1907398-X	6278883-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6754408-X	6754412-X	1918672-X	1918705-X
	62.5/125 µm Multimode	6278892-X	6278896-X	1918673-X	6278900-X
	Singlemode	6918737-X	6918738-X	1918674-X	1918706-X
Blue	50/125 µm Multimode	6278876-X	6278880-X	1907394-X	6278884-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6754409-X	6754413-X	1918675-X	1918707-X
	62.5/125 µm Multimode	6278893-X	6278897-X	1907395-X	6278901-X
	Singlemode	6918739-X	6918740-X	1918676-X	1918708-X
Orange	50/125 µm Multimode	6828263-X	6828269-X	1918677-X	1918709-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6828251-X	6828257-X	1918678-X	1918710-X
	62.5/125 µm Multimode	6828275-X	6828281-X	1918679-X	1918711-X
	Singlemode	6828239-X	6828245-X	1918680-X	1918712-X
Brown	50/125 µm Multimode	6828264-X	6828270-X	1918681-X	1918713-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6828252-X	6828258-X	1918682-X	1918714-X
	62.5/125 µm Multimode	6828276-X	6828282-X	1918683-X	1918715-X
	Singlemode	6828240-X	6828246-X	1918684-X	1918716-X
Slate	50/125 µm Multimode	6828265-X	6828271-X	1918685-X	1918717-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6828253-X	6828259-X	1918686-X	1918718-X
	62.5/125 µm Multimode	6828277-X	6828283-X	1918687-X	1918719-X
	Singlemode	6828241-X	6828247-X	1918688-X	1918720-X
Violet	50/125 µm Multimode	6828266-X	6828272-X	1918689-X	1918721-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6828254-X	6828260-X	1918690-X	1918722-X
	62.5/125 µm Multimode	6828278-X	6828284-X	1918691-X	1918723-X
	Singlemode	6828242-X	6828248-X	1918692-X	1918724-X
Rose	50/125 µm Multimode	6828267-X	6828273-X	1918693-X	1918725-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6828255-X	6828261-X	1918694-X	1918726-X
	62.5/125 µm Multimode	6828279-X	6828285-X	1918695-X	1918727-X
	Singlemode	6828243-X	6828249-X	1918696-X	1918728-X
Aqua	50/125 µm Multimode	6828268-X	6828274-X	1918697-X	1918729-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6828256-X	6828262-X	1918698-X	1918730-X
	62.5/125 µm Multimode	6828280-X	6828286-X	1918699-X	1918731-X
	Singlemode	6828244-X	6828250-X	1918700-X	1918732-X

Note: X denotes length in meters: -1 = 1, -2 = 2, -3 = 3, -5 = 5, 1- -0 = 10

Note: All part numbers are RoHS compliant.

Catalog 1307895
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MPO SECURE Cable Assemblies

NEW

Product Facts

- For use with MT-RJ SECURE System MPO Cassettes on page 12 only
- Feature colored/keyed MPO connectors which only mate with like colored MPO couplers to limit access to secure networks
- 12-Fibers per MPO connector
- Pulling socks protect connectors during installation
- Available in 50 µm, Laser Optimized (10 Gig), and 62.5 µm Multimode as listed

MPO SECURE Trunk Cable Assemblies

MPO SECURE Color	Fiber Type	Part Numbers	
		12 Fiber	24 Fiber
Red	50/125 µm Multimode	6754273-X	6754281-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6754420-X	6754424-X
	62.5/125 µm Multimode	6754269-X	6754277-X
Yellow	50/125 µm Multimode	6754276-X	6754284-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6754421-X	6754425-X
	62.5/125 µm Multimode	6754272-X	6754280-X
Green	50/125 µm Multimode	6754274-X	6754282-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6754422-X	6754426-X
	62.5/125 µm Multimode	6754270-X	6754278-X
Blue	50/125 µm Multimode	6754275-X	6754283-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	6754423-X	6754427-X
	62.5/125 µm Multimode	6754271-X	6754279-X
Rose	50/125 µm Multimode	1918741-X	1918759-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	1918753-X	1918771-X
	62.5/125 µm Multimode	1918747-X	1918765-X
Aqua	50/125 µm Multimode	1918742-X	1918760-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	1918754-X	1918772-X
	62.5/125 µm Multimode	1918748-X	1918766-X
Brown	50/125 µm Multimode	1918743-X	1918761-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	1918755-X	1918773-X
	62.5/125 µm Multimode	1918749-X	1918767-X
Violet	50/125 µm Multimode	1918744-X	1918762-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	1918756-X	1918774-X
	62.5/125 µm Multimode	1918750-X	1918768-X
Orange	50/125 µm Multimode	1918745-X	1918763-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	1918758-X	1918775-X
	62.5/125 µm Multimode	1918751-X	1918769-X
Slate	50/125 µm Multimode	1918746-X	1918764-X
	Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	1918759-X	1918776-X
	62.5/125 µm Multimode	1918752-X	1918770-X

Note: 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: All part numbers are RoHS compliant.

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MU High Density Cable Assemblies

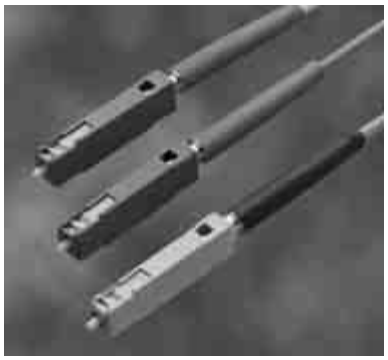
Product Facts

- Can be used with MU backplane connectors (Z-PACK 2 mm HM type L connector housings) for complete backplane or board to board solution
- 1.25 mm ferrule design
- Polarized to ensure precise insertion
- High density (up to 8 lines per module)
- "Push Pull" (SC style) latching mechanism
- Fully compliant with:
  - 1.25 mm ferrule design IEC60917 and IEC 61076-4-101
  - IEC 60874-1
  - CECC 86 305 801 (MU-APC)
  - JIS C-5970
  - I-ETS 300 671
  - IEC 61300

Performance Characteristics

Insertion Loss —
Singlemode: 0.3 dB Max
<0.1 dB Typical
Multimode: 0.1 dB Typical

Return Loss —
Singlemode: 55 dB - PC endface
Typical
>65 dB - APC endface
Multimode: 20 dB



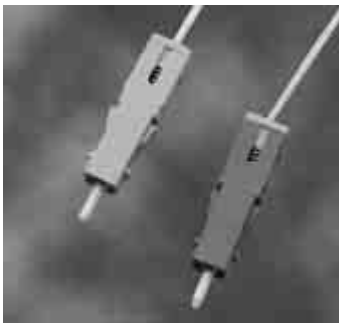
MU Cable Assemblies

Description	Part Numbers		
	1 Meter	2 Meters	3 Meters
LC to MU Board Plug Singlemode 900 µm	6457327-1	6457327-2	6457327-3
LC to MU 62.5/125 900 µm	6457328-1	—	—
MU to SC Singlemode 900 µm	6457329-1	6457329-2	6457329-3
MU to SC 62.5/125 900 µm	6457330-1	6457330-2	6457330-3
MU to MU Singlemode Buffered	6457482-1	6457482-2	6457482-3
MU to MU Singlemode 2 mm	6457523-1	6457523-2	6457523-3
MU to SC Singlemode 2.0 mm	6588145-1	6588145-2	—

Other lengths available upon request.

MU Boardplug Pigtails with Riser Cable

MU boardplug pigtails are designed for use with female Z-PACK 2 mm HM housings on the daughter-card. Available with 900 µm buffered fiber and in lengths of 1 meter as standard, custom lengths are available upon request.



Fiber Size (µm)	Endface	Cable Type	Length (meter)	Part Number
9/125	PC	900 µm pigtail	1	5106751-1

Note: All part numbers are RoHS compliant.

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SC & FC Singlemode Cable Assemblies

SC-SC Style Cable Assemblies

Product Facts

- **Compliant with:**
  - **JIS C-5973**
  - **ANSI X3T11 Fibre Channel**
  - **TIA 568**
- **Insertion Loss:**
  - **0.2 dB typical**
  - **0.5 dB maximum**

SC/APC Connectors

SC/UPC to SC/UPC Cable Assembly

Description	Min. Return Loss	Cable Diameter	Part Numbers Length (m) 1	3	5	10	15
Single-Fiber Jumpers							
Simplex SC/APC to SC/APC	65 dB	3.0 mm	5492188-1	5492188-3	5492188-5	1-5492188-0	1-5492188-5
	65 dB	2.0 mm	6828410-1	6828410-3	6828410-5	1-6828410-0	1-6828410-5
	65 dB	900 µm	5504678-1	5504678-3	5504678-4	5504678-5	—
Simplex SC/UPC to SC/UPC	55 dB	3.0 mm	5492015-1	5492015-3	5492015-4	5492015-5	5492015-6
	55 dB	2.0 mm	6828887-2	6828887-3	6828887-5	1-6828887-0	1-6828887-5
	55 dB	900 µm	5492276-1	5492276-3	5492276-5	1-5492276-0	—
Simplex SC/UPC to SC/APC	55/65 dB	3.0 mm	5492191-1	5492191-3	5492191-5	1-5492191-0	1-5492191-5
Single-Fiber Pigtails							
Simplex SC/APC	65 dB	3.0 mm	5492193-1	5492193-3	5492193-5	1-5492193-0	1-5492193-5
	65 dB	900 µm	1695588-1	1695588-3	1695588-5	1-1695588-0	1-1695588-5
Simplex SC/UPC	55 dB	3.0 mm	5492081-1	5492081-3	5492081-5	1-5492081-0	1-5492081-5
	55 dB	900 µm	5492065-1	5492065-3	5492065-5	1-5492065-0	1-5492065-5
Two-Fiber Jumpers — Zipcord							
Duplex SC/APC to Duplex SC/APC	55 dB	3.0 mm	1754490-1	1754490-3	1754490-5	1-1754490-0	1-1754490-5
Duplex SC/UPC to Duplex SC/UPC	55 dB	3.0 mm	5492019-1	5492019-3	5492019-4	5492019-5	5492019-6
(2) Simplex SC/UPC to (2) Simplex SC/UPC	55 dB	3.0 mm	1907362-1	1907362-3	1907362-5	1-1907362-0	1-1907362-5

All cable OFNR (Riser).

Note: All part numbers are RoHS compliant.

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SC & FC Singlemode Cable Assemblies (Continued)

FC-FC Style Cable Assemblies

Product Facts

- Compliant with:
  - JIS C-5970
  - IEC 1754-13-1
  - TIA 504.4 (FOCIS-4)
- Insertion Loss:
  - 0.2 dB typical
  - 0.5 dB maximum

FC/APC Connectors

FC/UPC to FC/UPC Cable Assembly

Description	Min. Return Loss	Cable Diameter	Part Numbers Length (m) 1	3	5	10	15
Single-Fiber Jumpers							
Simplex FC/APC to FC/APC	65 dB	3.0 mm	5492187-1	5492187-3	5492187-5	1-5492187-0	1-5492187-5
	65 dB	1.6 mm	6754068-1	6754068-3	6754068-5	—	—
	65 dB	900 µm	5503868-1	5503868-3	5503868-5	1-5503868-0	1-5503868-5
Simplex FC/UPC to FC/UPC	55 dB	3.0 mm	5492014-1	5492014-3	5492014-4	5492014-5	5492014-6
	55 dB	900 µm	5492230-1	5492230-3	5492230-5	1-5492230-0	1-5492230-5
Simplex FC/UPC to FC/APC	55/65 dB	3.0 mm	5492190-1	5492190-3	5492190-5	1-5492190-0	1-5492190-5
Single-Fiber Pigtails							
Simplex FC/APC	65 dB	3.0 mm	5492192-1	5492192-3	5492192-5	1-5492192-0	1-5492192-5
Simplex FC/UPC	55 dB	3.0 mm	5492194-1	5492194-3	5492194-5	1-5492194-0	1-5492194-5
	55 dB	2.0 mm	6278244-1	6278244-3	6278244-5	1-6278244-0	1-6278244-5
Two-Fiber Jumpers — Zipcord							
(2) Simplex FC/UPC to (2) Simplex FC/UPC	55 dB	3.0 mm	5492022-1	5492022-3	5492022-4	5492022-5	5492022-6

All cable OFNR (Riser).

Note: All part numbers are RoHS compliant.

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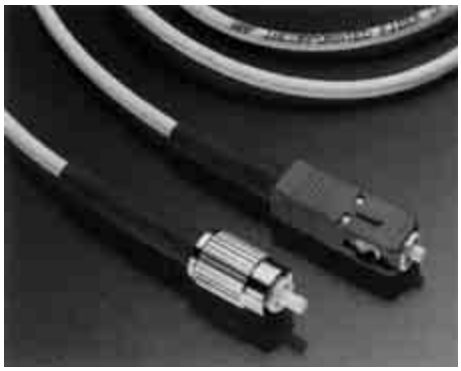
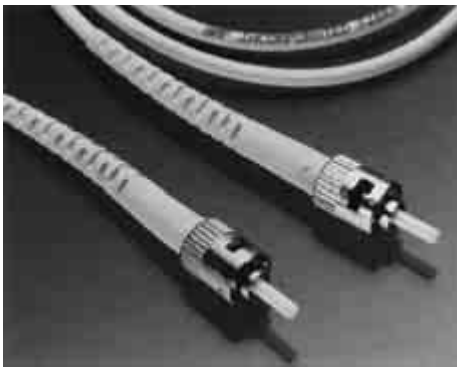
SC & FC Singlemode Cable Assemblies (Continued)

Hybrid FC/SC and Other Cable Assemblies



FC/UPC to SC/UPC Cable Assembly



ST/UPC Cable Assembly

Description	Min. Return Loss	Part Numbers Length (m)				
		1	3	5	10	15
Stocked Assemblies (FC/SC Hybrid)						
Simplex FC/APC to SC/APC	65 dB	5492189-1	5492189-3	5492189-5	1-5492189-0	1-5492189-5
Simplex FC/APC to SC/UPC	65/55 dB	6457165-1	6457165-3	6457165-5	1-6457165-0	1-6457165-5
Simplex FC/UPC to SC/UPC	55 dB	5492017-1	5492017-3	5492017-4	5492017-5	5492017-6
Other Simplex Assemblies						
Simplex SC/ST	55 dB	5492016-1	5492016-3	5492016-4	5492016-5	5492016-6
Simplex FC/ST	55 dB	5492018-1	5492018-3	5492018-4	5492018-5	5492018-6
Simplex ST/ST	55 dB	5502796-1	5502796-3	5502796-5	1-5502796-0	1-5502796-1
Other Duplex Assemblies						
SC Duplex/FC	55 dB	5492021-1	5492021-3	5492021-4	5492021-5	5492021-6
SC Duplex/ST Style	55 dB	5492020-1	5492020-3	5492020-4	5492020-5	5492020-6
ST/ST Style	55 dB	5503162-1	5503162-3	5503162-5	1-5503162-0	1-5503162-1

Insertion Loss: 0.5 dB Max., 0.2 dB Typical, when measured against a Reference Lead.
All cable 3 mm OFNR (Riser).

Note: All part numbers are RoHS compliant.

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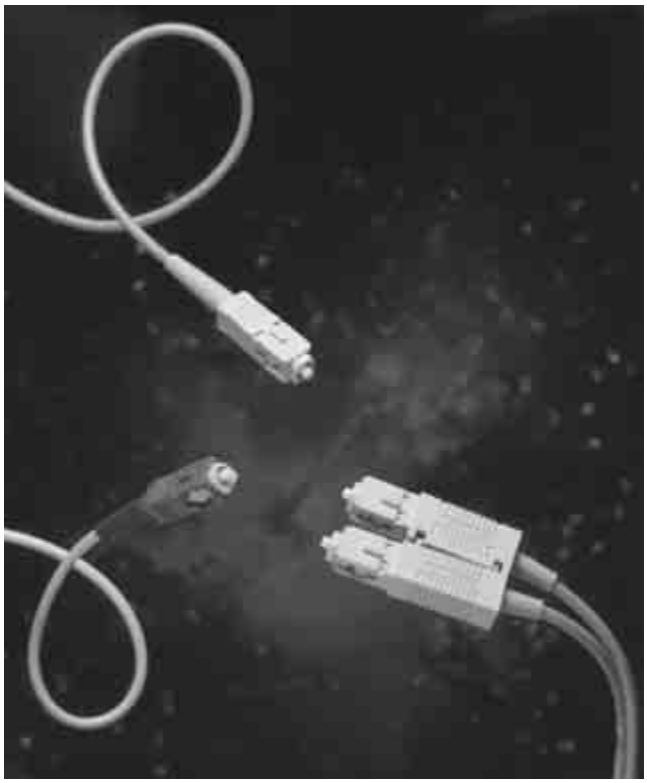
ST & SC Multimode Cable Assemblies

ST-Style

Description	Ferrule Type	Part Numbers Length (m)				
		1	2	3	5	10
ST-ST, Simplex, 62.5/125, Riser	Ceramic	6278789-1	6278789-2	6278789-3	6278789-4	6278789-7
ST-ST, Zipcord, 62.5/125, Riser	Ceramic	5503995-1	5503995-2	5503995-3	5503995-4	5503995-5
ST-ST, Zipcord, 62.5/125, Riser	Polymer	5503994-1	5503994-2	5503994-3	5503994-4	5503994-5
ST/ST, Zipcord, 50/125, Riser	Ceramic	6278207-1	6278207-2	6278207-3	6278207-5	1-6278207-0
ST/ST, Dual, 62.5/125, Plenum	Ceramic	5503959-1	5503959-2	5503959-3	5503959-5	1-5503959-0



SC-Style

Description	Ferrule Type	Part Numbers Length (m)				
		1	2	3	5	10
SC-SC, Simplex, 62.5/125, Riser	Ceramic	5504970-1	5504970-2	5504970-3	5504970-4	5504970-5
SC-SC, Simplex, 50/125, Riser	Ceramic	5504968-1	5504968-2	5504968-3	5504968-5	1-5504968-0
SC-SC, Simplex, Laser Optimized (10 Gig), Riser	Ceramic	1907499-1	1907499-2	1907499-3	1907499-5	1-1907499-0
SC-SC, Zipcord, 62.5/125, Riser	Ceramic	5492050-1	5492050-2	5492050-3	5492050-4	5492050-5
SC Dup-SC Dup, Zipcord, 62.5/125, Riser	Ceramic	5504971-1	5504971-2	5504971-3	5504971-4	5504971-5
SC Dup-SC Dup, Zipcord, 62.5/125, Riser	Polymer	5492249-1	5492249-2	5492249-3	5492249-5	1-5492249-0
SC-ST, Simplex, 62.5/125, Riser	Ceramic	5504972-1	5504972-2	5504972-3	5504972-4	5504972-5
SC Dup-ST, Zipcord, 62.5/125, Riser	Ceramic	5504958-1	5504958-2	5504958-3	5504958-4	5504958-5
SC Dup-ST, Zipcord, 62.5/125, Riser	Polymer	5492250-1	5492250-2	5492250-3	5492250-5	1-5492250-0

Note: All part numbers are RoHS compliant.

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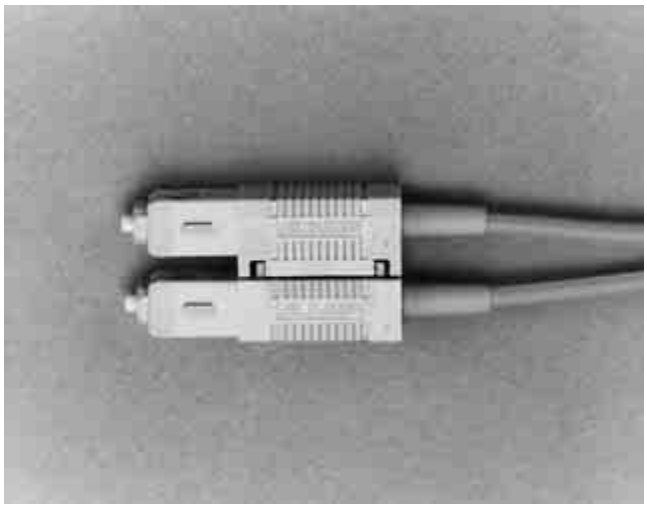
Fibre Channel Fiber Optic Assemblies

Product Facts

- Specified connector float assures intermateability with all Fibre Channel compliant devices
- Connector's minimal metal contact helps contain RFI/EMI
- Assemblies available with riser & plenum grade cable
- Custom cable assembly lengths available
- 50/125 µm multimode fiber
- 62.5/125 µm multimode fiber



Multimode	Ferrule Material	Fiber Size	Riser or Plenum	Part Numbers				
				Length (m)				
				1	2	3	5	10
SC Dup/SC Dup Zipcord	Ceramic	50/125	Plenum	6278016-1	6278016-2	6278016-3	6278016-5	1-6278016-0
SC Dup/SC Dup, Zipcord	Ceramic	62.5/125	Riser	6374040-1	6374040-2	6374040-3	6374040-5	1-6374040-0
SC Dup/SC Dup, Zipcord	Ceramic	62.5/125	Plenum	6374039-1	6374039-2	6374039-3	6374039-5	1-6374039-0
SC Dup-SC Dup, Zipcord	Ceramic	50/125	Riser	5504969-1	5504969-2	5504969-3	5504969-4	5504969-5
SC Dup-ST, Zipcord	Ceramic	62.5/125	Riser	6374038-1	6374038-2	6374038-3	6374038-5	1-6374038-0
SC Dup-ST, Zipcord	Ceramic	50/125	Riser	5492591-1	5492591-2	5492591-3	5492591-5	1-5492591-0

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Low Loss SC & FC Singlemode Cable Assemblies

Product Facts

- Full physical contact for all connected fibers
- Low back reflection
- One touch connection / disconnection (push-pull type connector)
- Compliant to IEC 61754-4
- Exceeds GR 326 requirements
- Available for all cable types: LSZH, Riser, & Plenum
- Suitable for all wavelengths: 1310, 1550 & 1625 nm

Applications

- Storage area equipment
- Original Equipment
- Premise installations — Local Area Networks
- Telecommunication Networks
- Multimedia Networks
- SECURE Networks

Tyco Electronics' Low Loss Connectors have an excellent performance of random attenuation <0.1 dB for both PC and APC connectors (GR326 has an objective of <0.2 dB random IL). This allows the system designer to have more interconnections without the need for additional investments in active devices. Line balancing is easier and line stability is easier to achieve.

These Ultra Low Loss Connectors are applicable in Long Haul, Metro and Fiber-to-the-Home applications, as well as DWDM, CDWM, and Analog Video Transmission.

In Long Haul Networks, more interconnections are possible without necessity for amplification. In Metro Ring applications, the connector allows Telecom vendors to remove the necessity for gain blocks or in-line amplifiers.

Use of the connector in Fiber-to-the-Home environments helps reduce cost, since patching instead of splicing will become more profitable and easier for installers to add subscribers.

Tyco Electronics' Low Loss product range is unique, as it is produced with proprietary processes. It eliminates concerns of attenuation measured against reference or random attenuation.

The connectors produced are of reference quality, since they are made with a standard Zirconia ferrule, which allows them to be used in Outside Plant and Operator Buildings specified in IEC Categories C (controlled), U (uncontrolled), and E (extreme).

Performance Characteristics

Typical IL in random connection (dB)* — < 0.08

Max IL in random connection (dB) 97% — 0.10

Max IL in random connection (dB) 100% — 0.15

* **Note:** The above values can only be achieved when low loss connectors are being used at both ends, in combination with a low loss adapter.

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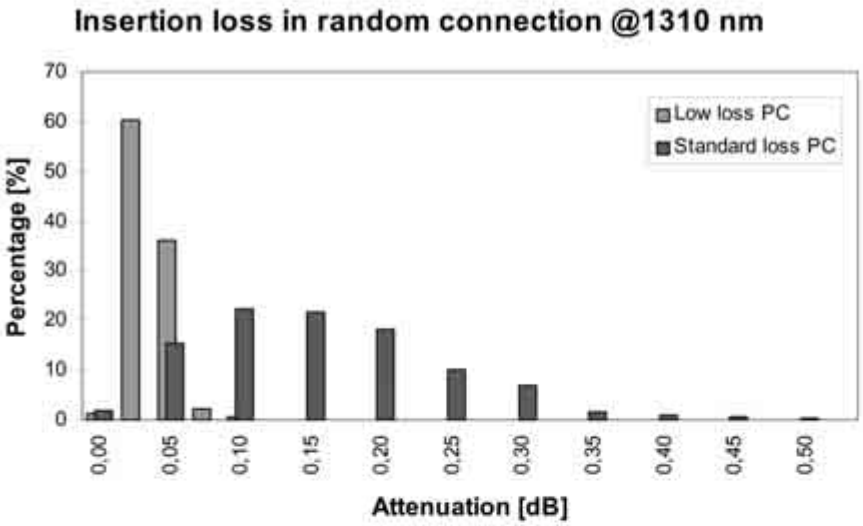
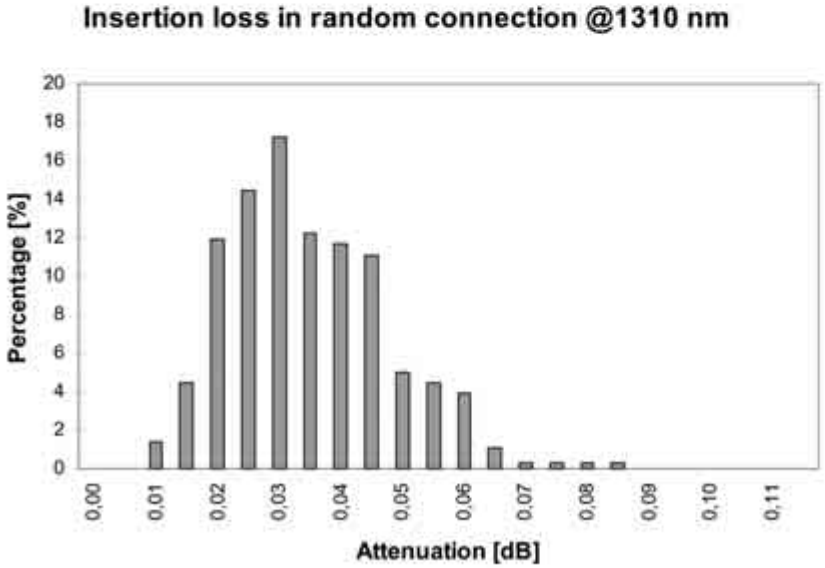
Japan: 81-44-844-8013
UK: 31-73-624-6639

Low Loss SC & FC Singlemode Cable Assemblies (Continued)

Performance comparison of standard versus low loss connectors



Graph 1: Insertion loss spreading of standard and low loss connectors (macro scale).



Graph 2: Insertion loss in random connection @ 1310 nm of low loss connectors (micro scale).

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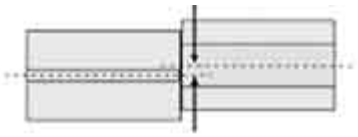
UK: 31-73-624-6639

Mode Conditioning Cable Assemblies

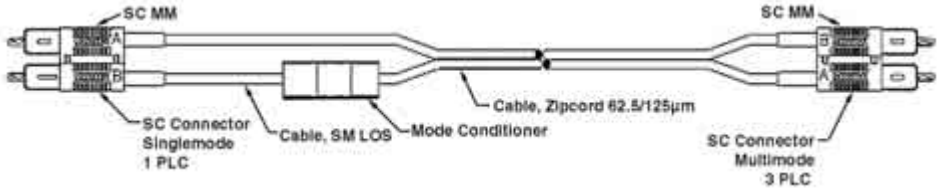
Mode Conditioning Patch Cords

Product Facts

- Allows use of singlemode gigabit ethernet equipment with multimode installed fiber
- Designed for Longwave (-LX) multimode applications for Gigabit Ethernet Compliant with IEEE-802.3z
- Masks Differential Mode Delay (DMD) signal degradation
- Functions the same as a standard patchcord



Singlemode Centerline Offset
From Multimode Centerline



Description	Part Number		
	2 Meters	3 Meters	5 Meters
LC - SC Mode Conditioning Patch Cords			
LC Duplex/SC Duplex, SM 62.5/125 µm	6536811-2	6536811-3	6536811-5
LC Duplex/ST Dual, SM 62.5/125 µm	1920476-2	1920476-3	1920476-5

Mode Conditioning Launch Leads with LSZH Cable

Note: See pages 118 & 119 for other LSZH Cable Assemblies

Description	Part Numbers	
	Length (m)	
	3	5.5
ST - ST Mode Conditioning Launch Lead with LSZH Cable		
ST/PC-ST/PC 50/125 µm	6348750-3	
ST/PC - ST/PC 62.5/125 µm	6348749-3	
ST Mode Conditioning Launch Lead Basic with LSZH Cable		
ST/PC Basic 50/125 µm		9-6536401-5
ST/PC Basic 62.5/125 µm		9-6536440-5

Description	Part Numbers							
	Length (m)							
	2	3	4	5	7	8	9	10
SC - SC Mode Conditioning Launch Lead with LSZH Cable								
SC - SC Duplex 50/125 µm	6206820-2	6206820-3	—	6208620-5	—	6206820-8	—	1-6206820-0
SC - SC Duplex 62.5/125 µm	6206821-2	6206821-3	6206821-4	6206821-5	6206821-7	6206821-8	6206821-9	1-6206821-0

Description	Part Numbers					
	Length (m)					
	2	3	5	7	8	10
SC - ST Mode Conditioning Launch Lead with LSZH Cable						
SC Duplex - ST 50/125 µm	6348269-2	6348269-3	6348269-5	6348269-7		
SC Duplex - ST 62.5/125 µm	6348271-2	6348271-3	6348271-5		6348271-8	1-6348271-0
SC - MT-RJ Mode Conditioning Launch Lead with LSZH Cable						
SC/PC - MT-RJ 50/125 µm		6536769-3				
SC/PC - MT-RJ 62.5/125 µm		6536770-3				
MT-RJ - ST Mode Conditioning Launch Lead with LSZH Cable						
MT-RJ - ST Duplex 50/125 µm		6536445-3	6536445-5			
MT-RJ - ST Duplex 62.5/125 µm		6536444-3	6536444-5			
MT-RJ - SC Mode Conditioning Launch Lead with LSZH Cable						
MT-RJ - SC Duplex 50/125 µm		6536447-3	6536447-5			
MT-RJ - SC Duplex 62.5/125 µm		6536446-3	6536446-5			

Note: All part numbers are RoHS compliant.

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Low Smoke, Zero Halogen (LSZH) Cable Assemblies

LC Cable Assemblies with LSZH Cable

Product Facts

- For high performance applications/high density
- 125 µm Ceramic Ferrule Technology
- Small size — half the size of standard SC & FC product
- Singlemode & multimode
- Tuned singlemode assemblies
- Hybrid assemblies available with all standard connectors
- Fully compliant with all relevant IEC, CENELEC and ETSI specifications

Performance Characteristics

Insertion Loss —
Singlemode: < 0.3 dB Against Reference
Multimode: < 0.1 dB Typical

Return Loss —
Singlemode: 55 dB - PC endface
Multimode: 20 dB

Note: See page 117 for Mode Conditioning LSZH Cable Assemblies

Description	Part Numbers				
	Length (m)				
	1	2	3	5	10
LC - LC Lead Assembly with LSZH Cable					
LC/PC - LC/PC Simplex Singlemode 0.9 mm tuned	6536330-1	6536330-2	6536330-3	6536330-5	1-6536330-0
LC/PC - LC/PC Simplex Singlemode 1.8 mm tuned	6536489-1	6536489-2	6536489-3	6536489-5	1-6536489-0
LC/PC - LC/PC Simplex Multimode 2.0 mm 50/125 µm	6536490-1	6536490-2	6536490-3	6536490-5	1-6536490-0
LC/PC - LC/PC Simplex Multimode 2.0 mm 62.5/125 µm	6536500-1	6536500-2	6536500-3	6536500-5	1-6536500-0
LC/PC - LC/PC Duplex Singlemode 1.8 mm tuned	6536501-1	6536501-2	6536501-3	6536501-5	1-6536501-0
LC/PC - LC/PC Duplex Multimode 1.8 mm 50/125 µm	6536502-1	6536502-2	6536502-3	6536502-5	1-6536502-0
LC/PC - LC/PC Duplex Multimode 1.8 mm 62.5/125 µm	6536503-1	6536503-2	6536503-3	6536503-5	1-6536503-0

Note: Custom lengths are available. Please contact your local Tyco Electronics Sales Representative.

SC Cable Assemblies with LSZH Cable

Product Facts

- 125 µm Ceramic Ferrule Technology
- Small size — half the size of standard SC & FC product
- Singlemode & multimode
- Tuned singlemode assemblies
- Hybrid assemblies available with all standard connectors
- Fully compliant with all relevant IEC, CENELEC and ETSI specifications

Performance Characteristics

Insertion Loss —
Singlemode: < 0.3 dB Against Reference
Multimode: < 0.1 dB Typical

Return Loss —
Singlemode: 55 dB - PC endface
Multimode: 20 dB

Note: See page 117 for Mode Conditioning LSZH Cable Assemblies

Description	Part Numbers				
	Length (m)				
	1	2	3	5	10
SC - SC Lead Assembly with LSZH Cable					
SC Duplex/SC Duplex (Ceramic Ferrule) 62.5/125 µm	5349578-1	5349578-2	5349578-3	5349578-5	1-5349578-0
SC/SC Simplex (Ceramic Ferrule) 62.5/125 µm	5349577-1	5349577-2	5349577-3	5349577-5	
SC Duplex/SC Duplex (Ceramic Ferrule) 50/125 µm	5349565-1	5349565-2	5349565-3	5349565-5	1-5349565-0
SC/SC Simplex (Ceramic Ferrule) 50/125 µm	5349564-1	5349564-2	5349564-3	5349564-5	1-5349564-0
SC Duplex/SC Duplex (Ceramic Ferrule) 50/125 µm OM3	6536464-1	6536464-2	6536464-3	6536464-5	1-6536464-0
SC Pigtail with LSZH Cable					
SC/PC Pigtail OM3 0.9 mm 50/125 µm DES		6536555-2			
SC/PC Pigtail OM3 0.9 mm 50/125 µm PP		6536561-2			

Note: Custom lengths are available. Please contact your local Tyco Electronics Sales Representative.

Note: All part numbers are RoHS compliant.

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UK: 31-73-624-6639

Low Smoke, Zero Halogen (LSZH) Cable Assemblies (Continued)

ST Cable Assemblies with LSZH Cable

Description	Part Numbers Length (m)				
	1	2	3	5	10
ST - ST Lead Assembly with LSZH Cable					
ST-ST Simplex (Ceramic Ferrule) 62.5/125 µm	5349573-1	5349573-2	5349573-3	5349573-5	1-5349573-0
ST-ST Duplex (Ceramic Ferrule) 62.5/125 µm	5349574-1	5349574-2	5349574-3	5349573-5	1-5349574-0
ST-ST Simplex (Ceramic Ferrule) 50/125 µm	5349560-1	5349560-2	5349560-3	5349560-5	1-5349560-0
ST-ST Duplex (Ceramic Ferrule) 50/125 µm	5349561-1	5349561-2	5349561-3	5349561-5	1-5349561-0

Note: Custom lengths are available. Please contact your local Tyco Electronics Sales Representative.

Note: See page 117 for Mode Conditioning LSZH Cable Assemblies

MT-RJ Cable Assemblies with LSZH Cable

Description	Part Numbers Length (m)				
	1	2	3	5	10
MT-RJ to MT-RJ Lead Assembly with LSZH Cable					
MT-RJ to MT-RJ Singlemode	6206621-1	6206621-2	6206621-3	6206621-5	1-6206621-0
MT-RJ to MT-RJ Multimode 50/125 µm	6206617-1	6206617-2	6206617-3	6206617-5	1-6206617-0
MT-RJ to MT-RJ Multimode 62.5/125 µm	6206613-1	6206613-2	6206613-3	6206613-5	1-6206613-0
MT-RJ to MT-RJ Multimode 50/125 µm OM3	6536462-1	6536462-2	6536462-3	6536462-5	1-6536462-0
MT-RJ Pigtail with LSZH Cable					
MT-RJ Jack male Pigtail bare OM3			6536556-1		
MT-RJ Jack male Pigtail 50/125 µm			6348942-1		
MT-RJ Jack male Pigtail 62.5/125 µm			6348941-1		
MT-RJ Jack male Pigtail 9/125 µm Singlemode			6391366-1		

Note: Custom lengths are available. Please contact your local Tyco Electronics Sales Representative.

Hybrid Cable Assemblies with LSZH Cable

Description	Part Numbers Length (m)					
	1	2	3	5	10	15
LC - SC Lead Assembly with LSZH Cable						
LC/PC - SC/PC Simplex 0.9 mm tuned	6536504-1	6536504-2	6536504-3	6536504-5	1-6536504-0	
LC/PC - SC/PC Simplex 1.8 mm tuned	6536505-1	6536505-2	6536505-3	6536505-5	1-6536505-0	
LC/PC - SC/PC Simplex Multimode 2.0 mm 50/125 µm	6536506-1	6536506-2	6536506-3	6536506-5	1-6536506-0	
LC/PC - SC/PC Simplex Multimode 2.0 mm 62.5/125 µm	6536507-1	6536507-2	6536507-3	6536507-5	1-6536507-0	
LC/PC - SC/PC Duplex Singlemode 1.8 mm tuned	6536508-1	6536508-2	6536508-3	6536508-5	1-6536508-0	
LC/PC - SC/PC Duplex Multimode 1.8 mm 50/125 µm	6536509-1	6536509-2	6536509-3	6536509-5	1-6536509-0	
LC/PC - SC/PC Duplex Multimode 1.8 mm 62.5/125 µm	6536510-1	6536510-2	6536510-3	6536510-5	1-6536510-0	
LC - MT-RJ Lead Assembly with LSZH Cable						
LC/PC - MT-RJ Duplex Singlemode 1.8 mm tuned	6536511-1	6536511-2	6536511-3	6536511-5	1-6536511-0	
LC/PC - MT-RJ Duplex Multimode 1.8 mm 50/125 µm	6536512-1	6536512-2	6536512-3	6536512-5	1-6536512-0	
LC/PC - MT-RJ Duplex Multimode 1.8 mm 62.5/125 µm	6536513-1	6536513-2	6536513-3	6536513-5	1-6536513-0	
MT-RJ to SC Lead Assembly with LSZH Cable						
MT-RJ - SC Duplex Singlemode	6391153-1	6391153-2	6391153-3	6391153-5		
MT-RJ - SC Duplex Ceramic Ferrule Multimode 50/125 µm	6206619-1	6206619-2	6206619-3	6206619-5	1-6206619-0	
MT-RJ - SC Duplx Ceramic Ferrule Multimode 62.5/125 µm	6206615-1	6206615-2	6206615-3	6206615-5	1-6206615-0	
MT-RJ - SC Simplex Ceramic Ferrule Multimode 50/125 µm	6206618-1	6206618-2	6206618-3	6206618-5	1-6206618-0	
MT-RJ - SC Simplx Ceramic Ferrule Multimode 62.5/125 µm	6206614-1		6206614-3	6206614-5	1-6206614-0	
MT-RJ - SC Multimode 50/125 µm OM3	6536463-1	6536463-2	6536463-3	6536463-5	1-6536463-0	
MT-RJ to ST Lead Assembly with LSZH Cable						
MT-RJ - ST Singlemode 9/125 µm		6348093-2				1-6348093-5
MT-RJ - ST Ceramic Ferrule Multimode 50/125 µm	6206620-1	6206620-2	6206620-3	6206620-5	1-6206620-0	
MT-RJ - ST Ceramic Ferrule Multimode 62.5/125 µm	6206616-1	6206616-2	6206616-3	6206616-5	1-6206616-0	

Note: Custom lengths are available. Please contact your local Tyco Electronics Sales Representative.

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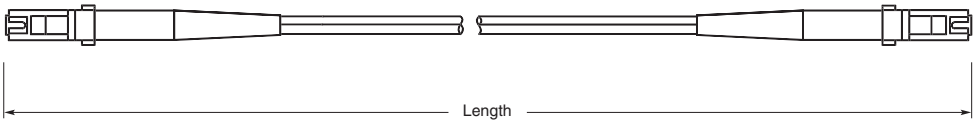
Optical Fiber Cable Assembly Information

Optical Fiber Cable Assembly Performance Details

Test Description		FOTP*	Requirement
Visual and Mechanical Inspection:	MT-RJ –	13	TIA/EIA-604-12
	SC –	13	TIA/EIA-604-3
	ST –	13	TIA/EIA-604-2
	LC –	13	TIA/EIA-604-10
Attenuation		34	≤ 0.75 dB
Return Loss		107	≤ -20 dB
Low Temperature (0° C for 4 days)		188	≤ 0.3 dB change
Temperature Life (55° C for 14 days)		7	≤ 0.3 dB change
Humidity (90 to 95% @ 40° C for 4 days)		5	≤ 0.3 dB change
Impact (8 drops from 1.8 m)		2	≤ 0.75 dB IL, < -20 dB RL
Durability (500 cycles)		21	≤ 0.75 dB IL, < -20 dB RL
Cable Retention (0° and 90°)		6	≤ 0.75 dB IL, < -20 dB RL
Flex (100 cycles)		1	≤ 0.75 dB IL, < -20 dB RL
Twist (10 cycles)		36	≤ 0.75 dB IL, < -20 dB RL

*FOTP = Fiber Optic Test Procedure

Optical Fiber Cable Assembly Length Reference



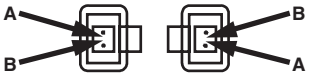
Meter to Foot and Inch Reference

Length in Meters	Length in Feet	Length in Inches
1	3.28	39.37
2	6.56	78.74
3	9.84	118.11
4	13.12	157.48
5	16.40	196.85
6	19.68	236.21
7	22.96	275.59
8	26.25	314.96
9	29.52	354.33
10	32.80	393.70
20	65.62	787.40
30	98.42	1181.10
40	131.23	1574.80
50	164.04	1968.50
60	196.85	2362.20
70	229.66	2755.90
80	262.47	3149.60
90	295.27	3543.30
100	328.08	3937.00
110	360.89	4330.69
120	393.70	4724.39
130	426.51	5118.09
140	459.32	5511.79
150	492.12	5905.49
160	524.93	6299.19
170	557.74	6692.89
180	590.55	7086.59
190	623.36	7480.29
200	656.17	7873.99

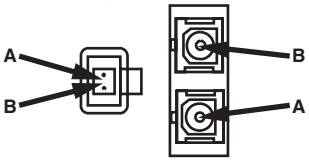
Fiber Polarity

Fiber Color	Left Connector	Right Connector
White	A	B
Blue	B	A

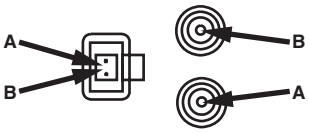
MT-RJ



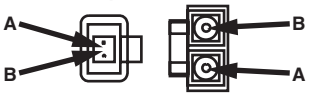
MT-RJ to Duplex SC



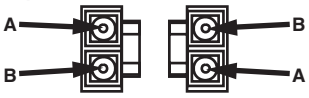
MT-RJ to Dual ST



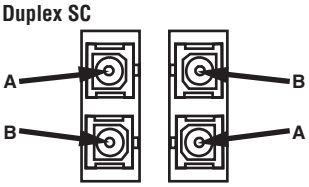
MT-RJ to Duplex LC



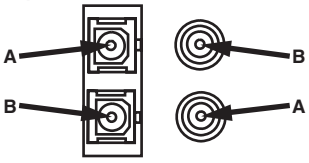
Duplex LC



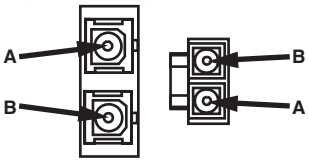
Duplex SC



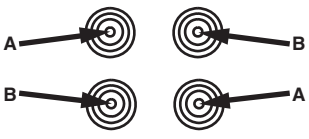
Duplex SC to Dual ST



Duplex SC to Duplex LC



Dual ST



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MT-RJ Cable Assemblies

Product Facts

- Each MT-RJ connector houses two fibers
- Cable assemblies are riser-rated

Connector End 1	Connector End 2	Fiber Type	UL/NEC Rating	Part Number
MT-RJ	MT-RJ	50/125 µm Multimode	OFNR	6278128-X
		Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	OFNR	6588572-X
		62.5/125 µm Multimode	OFNR	6278032-X
		Singlemode	OFNR	6278033-X

X denotes length in meters: -1 = 1, -2 = 2, -3 = 3, -5 = 5, 1- -0 = 10

MT-RJ to SC Cable Assemblies

Product Facts

- Connects between equipment with different interfaces
- SC connectors feature ceramic ferrules
- Each MT-RJ Connector houses two fibers
- Cable assemblies are riser-rated

Connector End 1	Connector End 2	Fiber Type	UL/NEC Rating	Part Number
MT-RJ	Duplex SC	50/125 µm Multimode	OFNR	6278126-X
		Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	OFNR	6693414-X
		62.5/125 µm Multimode	OFNR	6278028-X
		Singlemode	OFNR	6278031-X
	Simplex SC	50/125 µm Multimode	OFNR	6278127-X
		Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	OFNR	6588573-X
		62.5/125 µm Multimode	OFNR	6278030-X

X denotes length in meters: -1 = 1, -2 = 2, -3 = 3, -5 = 5, 1- -0 = 10

Note: All part numbers are RoHS compliant.

Catalog 1307895
Revised 11-07

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UK: 31-73-624-6639

MT-RJ to ST Cable Assemblies

Product Facts

- Connects between equipment with different interfaces
- ST Connectors feature ceramic ferrules
- Each MT-RJ Connector houses two fibers
- Cable assemblies are riser-rated

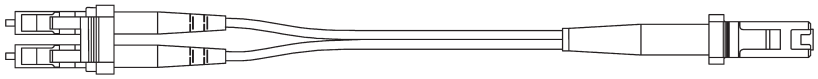
Connector End 1	Connector End 2	Fiber Type	UL/NEC Rating	Part Number
MT-RJ	Dual ST	50/125 µm Multimode	OFNR	6278199-X
		62.5/125 µm Multimode	OFNR	6278027-X
		Singlemode	OFNR	6278298-X

X denotes length in meters: -1 = 1, -2 = 2, -3 = 3, -5 = 5, 1- -0 = 10

MT-RJ to LC Cable Assemblies

Product Facts

- Connects between equipment with different interfaces
- One Duplex LC Connector and one MT-RJ Plug
- LC Connectors feature ceramic ferrules
- Cable Assemblies are riser-rated
- Each MT-RJ Connector houses two fibers



Connector End 1	Connector End 2	Fiber Type	UL/NEC Rating	Part Number
MT-RJ	LC Duplex	50/125 µm Multimode	OFNR	6374647-X
		Laser Optimized (10 Gig) (850 nm LO 50/125 µm) Multimode	OFNR	6588719-X
		62.5/125 µm Multimode	OFNR	6374646-X
		Singlemode	OFNR	6374645-X

X denotes length in meters: -1 = 1, -2 = 2, -3 = 3, -5 = 5, 1- -0 = 10

Note: All part numbers are RoHS compliant.

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MT-RJ Pigtail Jack (Single-Ended) Cable Assemblies

Product Facts

- Compatible with MT-RJ Jack Snap-in Adapter Plates
- Two 250 µm coated fiber in protective 900 µm tubing
- MT-RJ Jack Assemblies are compatible with fusion or mechanical splices
- Each MT-RJ Connector houses two fibers

Description	Fiber Type	Color	Part Number
MT-RJ Jack	50/125 µm Multimode	Black	6374018-X
	62.5/125 µm Multimode	Beige	6374019-X
	Singlemode	Blue	6374020-X
	Laser Optimized (10 Gig)	Aqua	1938008-X
MT-RJ SECURE Jack	Singlemode	Red	6588568-X
		Yellow	6588569-X
		Green	6588571-X
		Blue	6588570-X
		Orange	6828233-X
		Brown	6828234-X
		Slate	6828235-X
		Violet	6828236-X
		Rose	6828237-X
		Aqua	6828238-X

X denotes length in meters: -1 = 1, -2 = 2, -3 = 3

MT-RJ Pigtail Plug (Single-Ended) Cable Assemblies

Product Facts

- Compatible with MT-RJ Plug Snap-in Adapter Plates
- Two 250 µm coated fiber in protective 900 µm tubing
- MT-RJ Plug Assemblies are compatible with fusion or mechanical splices
- MT-RJ Plugs are pinned
- Each MT-RJ Connector houses two fibers

Description	Fiber Type	Part Number
MT-RJ Plug	50/125 µm Multimode	6588849-X
	62.5/125 µm Multimode	6693532-X
	Singlemode	6693533-X

X denotes length in meters: -1 = 1, -2 = 2, -3 = 3

Note: All part numbers are RoHS compliant.

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MT-RJ Cable Assembly Test Kits

MT-RJ Test Kit Components

Kit A

- 2 - MT-RJ (no pins) to SC/ST cable assemblies
- 1 - MT-RJ (pins) to SC/ST cable assembly
- 1 - MT-RJ to MT-RJ cable assembly
- 2 - Mandrels
- 1 - MT-RJ Adapter

Kit B

- 2 - MT-RJ to MT-RJ cable assemblies
- 2 - Mandrels

Kit C

- 2 - MT-RJ (no pins) to SC/ST cable assembly
- 1 - MT-RJ (pins) to SC/ST cable assembly
- 1 - MT-RJ to MT-RJ cable assembly
- 1 - MT-RJ Adapter

Kit D

- 2 - MT-RJ to MT-RJ cable assemblies

MT-RJ Test Kits

Description		Part Number	Components (see list)
MT-RJ to ST-Style Kit	Multimode 50/125 µm	1278861-2	Kit A
	Multimode 62.5/125 µm	1278862-2	Kit A
	Singlemode	1278863-2	Kit B
MT-RJ to ST-Style SECURE Kit	Multimode 50/125 µm	1278861-5	Kit A
	Multimode 62.5/125 µm	1278862-5	Kit A
	Singlemode	1278863-5	Kit B
MT-RJ to SC Kit	Multimode 50/125 µm	1278861-1	Kit A
	Multimode 62.5/125 µm	1278862-1	Kit A
	Singlemode	1278863-1	Kit B
MT-RJ to SC SECURE Kit	Multimode 50/125 µm	1278861-4	Kit A
	Multimode 62.5/125 µm	1278862-4	Kit A
	Singlemode	1278863-4	Kit B
MT-RJ to MT-RJ Kit	Multimode 50/125 µm	1278861-3	Kit C
	Multimode 62.5/125 µm	1278862-3	Kit C
	Singlemode	1278863-3	Kit D
MT-RJ to MT-RJ SECURE Kit	Multimode 50/125 µm	1278861-6	Kit C
	Multimode 62.5/125 µm	1278862-6	Kit C
	Singlemode	1278863-6	Kit D

MT-RJ Test Leads

MT-RJ Test Leads are divided into two primary categories:

- Launch Leads — made for use with standard test equipment
- OTDR Launch Leads — long lengths (100 meters) to deal with "dead zone" of OTDR equipment

Standard MT-RJ Launch Leads

Fiber Description	Part Number		
	MT-RJ — SC Simplex	MT-RJ — ST	MT-RJ — MT-RJ
No Pins, 62.5 Fiber	6435092-1	6435094-1	6435096-1
No Pins, 50/125 Fiber	6435092-2	6435094-2	6435096-2
No Pins, Singlemode	6435092-3	6435094-3	6435096-3
Pins, 62.5 Fiber	6435092-4	6435094-4	6435096-4
Pins, 50/125 Fiber	6435092-5	6435094-5	6435096-5
Pins, Singlemode	6435092-6	6435094-6	6435096-6

OTDR MT-RJ Launch Leads (100 meter length)

Part Number	Fiber Description
6588079-1	MT-RJ (No Pins) SC Simplex, 62.5/125 Fiber, 100 meters
6588080-1	MT-RJ (No Pins) SC Simplex, 50/125 Fiber, 100 meters

MT-RJ Loopbacks

Description		Part Number
MT-RJ Loopback	Multimode 50/125 µm	6278357-1
	Multimode 62.5/125 µm	6278153-1
	Singlemode	6278358-1

Note: All part numbers are RoHS compliant.

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MPO Cable Assemblies

MPO to MPO Trunk Cable Assemblies

Product Facts

- Quick connection of 12 fibers
- Pulling socks protect connectors during installation
- Available in
  - 62.5/125 µm
  - 50/125 µm
  - 50/125 µm laser optimized
  - Singlemode

Description		UL/NEC Ratings	Part Number
12 Fiber, Pair-Flipped (AB/BA)	50/125 µm Multimode	Riser (OFNR)/ Plenum (OFNP)	6435028-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	Riser (OFNR)/ Plenum (OFNP)	6693087-X
	62.5/125 µm Multimode	Riser (OFNR)/ Plenum (OFNP)	6435024-X
	Singlemode	Riser (OFNR)/ Plenum (OFNP)	6435070-X
24 Fiber, Pair-Flipped (AB/BA)	50/125 µm Multimode	Riser (OFNR)/ Plenum (OFNP)	6435029-X
	Laser Optimized (10 Gig) (850 nm 50/125 µm) Multimode	Riser (OFNR)/ Plenum (OFNP)	6754687-X
	62.5/125 µm Multimode	Riser (OFNR)/ Plenum (OFNP)	6435025-X
	Singlemode	Riser (OFNR)/ Plenum (OFNP)	6754882-X
72-Fiber, Pair-Flipped (AB/BA)	50/125 µm Multimode	Plenum (OFNP)	6435031-X
		Riser (OFNR)	6435039-X
	62.5/125 µm Multimode	Plenum (OFNP)	6435027-X
		Riser (OFNR)	6435035-X

Note: 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.

Other Standard MPO Cable Assemblies

Other Standard MPO Cable Assemblies

Part Number	Description
6588930-X	12-f MPO (f) - MPO (f), 50/125, jacketed ribbon, straight fiber path
6588688-X	12-f MPO (f) - MPO (f), 50/125, jacketed ribbon, reversed fiber path
6693182-X	12-f MPO (f) - MPO (f), 50/125, jacketed ribbon, reversed fiber path (For POP4 TxRx applications. Center 4 fibers not tested.)
6693088-X	12-f MPO (f) - MPO (f), SM, jacketed ribbon, straight fiber path
1588388-X	12-f MPO (f) - MPO (f), 62.5/125, jacketed ribbon, reversed fiber path
6457988-X	12-f MPO (f) - MPO (f), 62.5/125, jacketed ribbon, straight fiber path
6828375-X	12-f MPO (m) - MPO (m), 50/125, jacketed ribbon, straight fiber path
6828420-X	12-f MPO (m) - MPO (m), 50/125, jacketed ribbon, reversed fiber path

Note: 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.

All part numbers are RoHS compliant.

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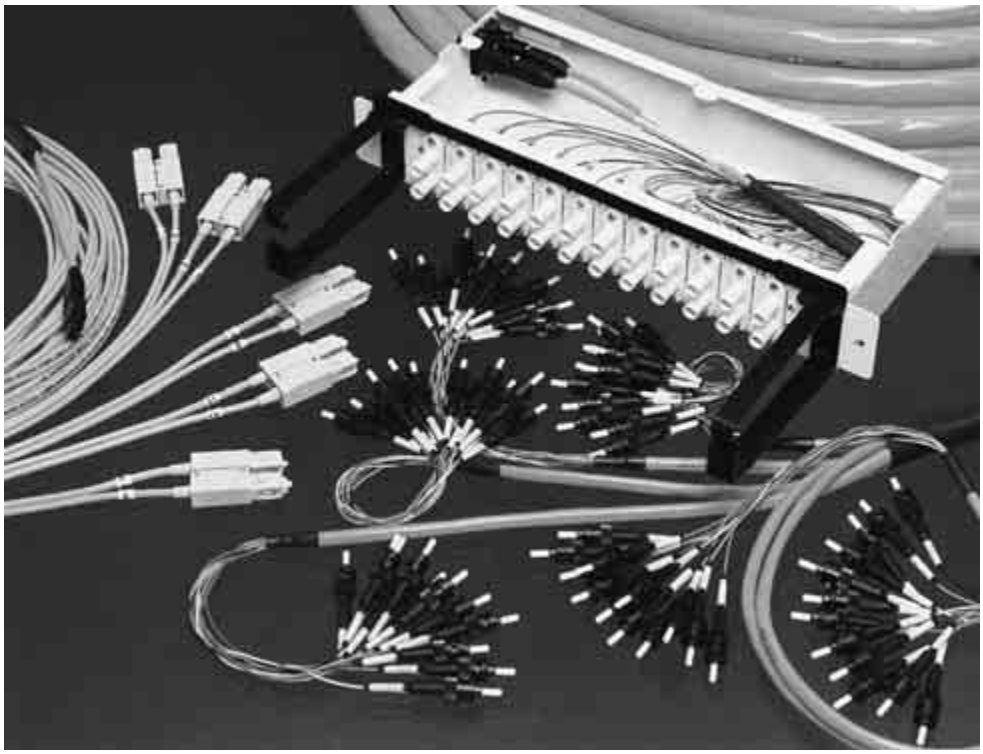
MPO Cable Assemblies (Continued)

MPO Cable Assemblies for Premise Networks



Description

- **A modular "plug-and-go" optical cabling system**

Applications

- **A high-performance option for AMP NETCONNECT zone cabling and cabling systems**

Product Facts

- **Uses proven NTT MT linear array technology in the MPO connector**
- **MPO packs up to 12 optical fibers into a single miniaturized connector about the same size as one SC type**
- **Cables are pre-terminated and tested**
- **Distribution hardware is pre-loaded**
- **Cable rating options:**
  - **Riser rated, UL-OFNR**
  - **Plenum rated, UL-OFNP (std.)**
  - **Low Smoke, Zero Halogen rated, LSZH**
- **Singlemode or Multimode**

Other Applications

- **Cabling System for Mainframes Catalog 889414**

Performance Characteristics

Insertion Loss —
Singlemode — 0.35 dB typical
Multimode — 0.50 dB typical

Return Loss —
Angled Singlemode — -50 dB typical
Flat Multimode — -40 dB typical

Durability —
After 500 matings ≤0.1 dB change

Temperature Range —
-40°C to +80°C

- **Produced under a Quality Management System certified to ISO 9001**

  A copy of the certificate is available upon request

Initially designed to replace thick copper parallel cables used under floors of computer rooms in large mainframe centers, Tyco Electronics' MPO Cabling System also makes perfect sense for campus and premise type Local Area Networks. It provides unparalleled ease and flexibility in cabling applications such as backbone and horizontal distribution to the desktop.

The MPO System uses the same simple concepts found in most structured networks following TIA/EIA 568A guidelines. The difference is that with MPO Systems the cables come pre-terminated and tested, with a pulling sock over each end. Just pull through the conduit, remove the netting, and plug it in — that's it.

MPO trunk cables run through the building vertically between floors, and horizontally through walls, ceilings, and under floors to distribution enclosures and consolidation points strategically located within the building. Mini-trunks and fanout assemblies connect the consolidation point to the workstation outlets. Jumper cables connect the outlet to the workstation, and are also used for cross-connecting in the telecommunications closet. Installation is easier and faster with cables selected specifically for each site.

MPO cabling is a high performance option for AMP NETCONNECT zone cabling, and complements the system as a furniture cabling solution. MPO cables can reside parallel to existing UTP without fear of crosstalk.

Mini-trunk feeder cables and fan-out cable assemblies are an ideal solution for the open office environment. Their small size allows easy storage in modular office panels and raceways. When it's time to move add or change the zone, the mini-trunks are simply unplugged from nearby zone enclosures and moved with the furniture. Data outage is contained to the zone under construction. After the zone is reconfigured, just plug the MPO connectors back in to the network, and your workstations are up and running.

There's no longer a need to bring in a network staff to shut down the entire system to re-terminate and test the cabling for moves, adds, and changes. Moves can usually be done by the end-user's facilities crew or someone with minimal network experience. At last, "modular" is living up to its promise. You can take an office apart, move it, and put it back together — quick and simple!

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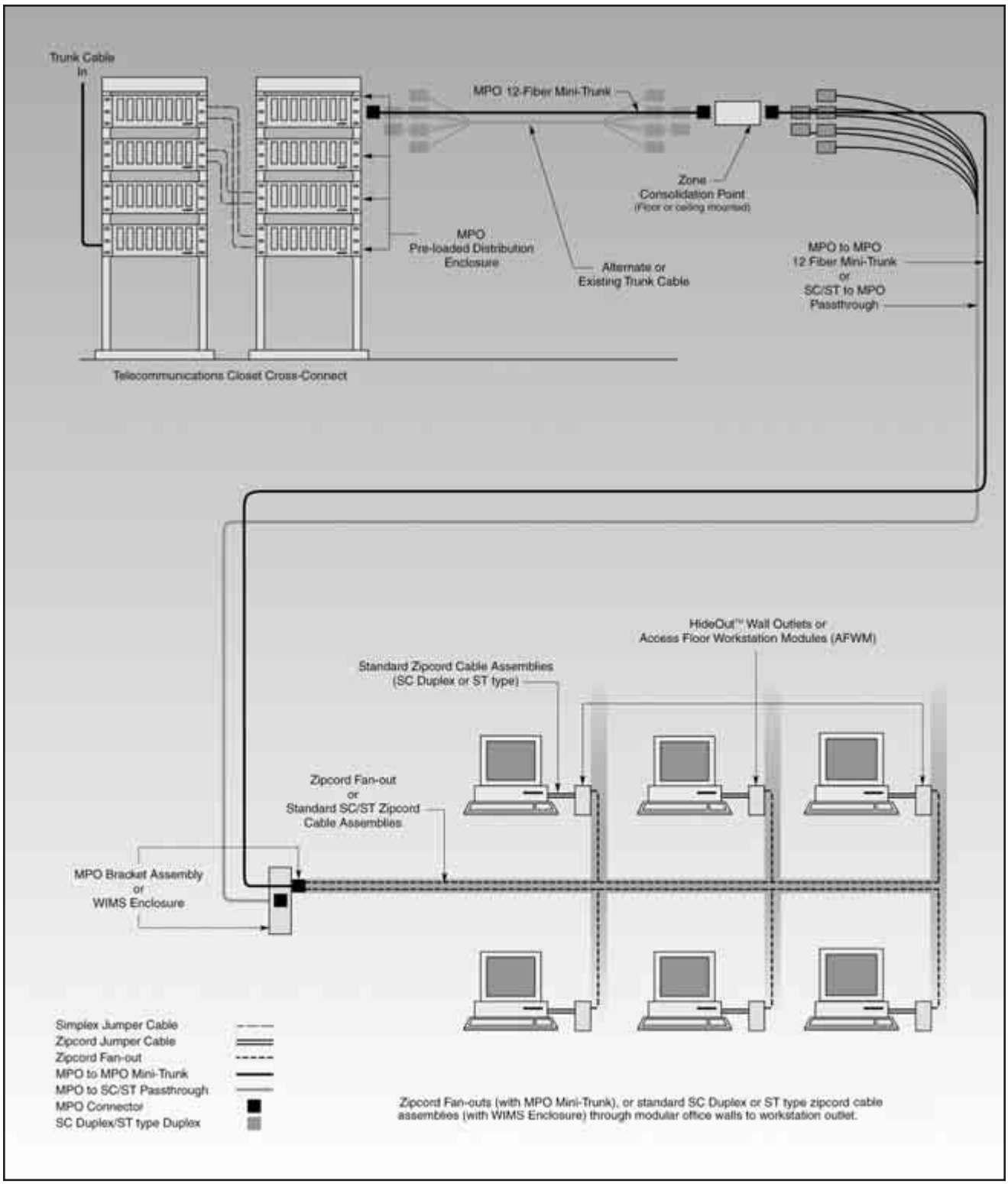
MPO Cable Assemblies (Continued)

MPO Cable Assemblies for Premise Networks (Continued)



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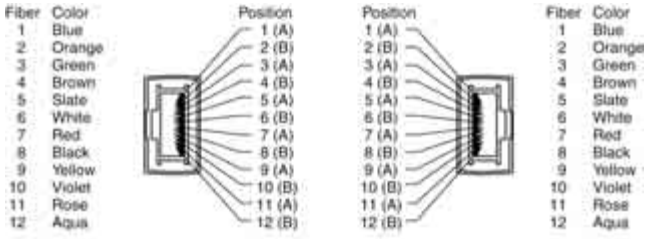
MPO Cable Assemblies (Continued)

MPO Cable Assemblies for Premise Networks (Continued)

Pairs Flipped Versus Straight Through Fiber Path Configuration

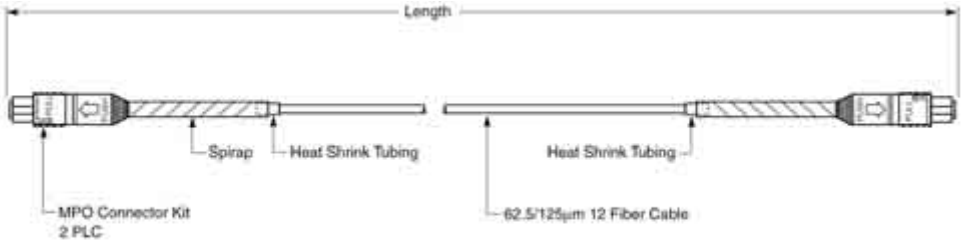
Unlike the mainframe application counterparts, Tyco Electronics' MPO trunks for Premise applications typically do not require "pair flipping".
Pair Flipping, or "AB/BA" transmit/receive configuration is a sequential channel cross-over scheme used for IBM Enterprise Systems Connectivity (ESCON) architecture. MPO premise trunk fiber pairs are configured as "AB/AB". For example — blue fiber (1) travels straight through the cable and exits on the opposite end in the same position (1), as illustrated (right). This fiber path configuration is known as "straight through".

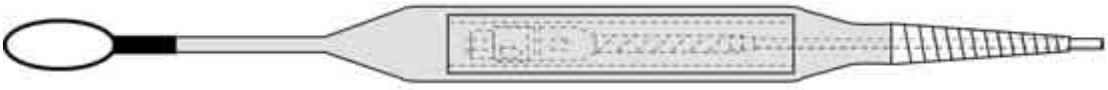


Straight Through Fiber Path Configuration

MPO to MPO Mini-Trunk Cable Assembly

4 pair (8 fiber), straight through 62.5/125 multimode





Pulling Sock (included on each end)

MPO to MPO Mini-Trunks

Trunk Length	Part Number (OFNP)
6 meter [19.7 feet]	1-5492105-9
8 meter [26.3 feet]	2-5492105-0
10 meter [32.8 feet]	5492105-2
15 meter [49.2 feet]	5492105-7
20 meter [65.6 feet]	5492105-3
23 meter [75.5 feet]	2-5492105-1
27 meter [88.6 feet]	2-5492105-2
30 meter [98.4 feet]	5492105-4
33 meter [108.3 feet]	2-5492105-3
38 meter [124.7 feet]	1-5492105-5
43 meter [141.1 feet]	2-5492105-4
46 meter [150.9 feet]	1-5492105-6
50 meter [164.1 feet]	5492105-8
53 meter [173.9 feet]	1-5492105-7
61 meter [200.1 feet]	1-5492105-3

Additional lengths available.
Custom lengths can be built to customer's specifications.

Note: All part numbers are RoHS compliant.

ESCON is a trademark of IBM Corporation.

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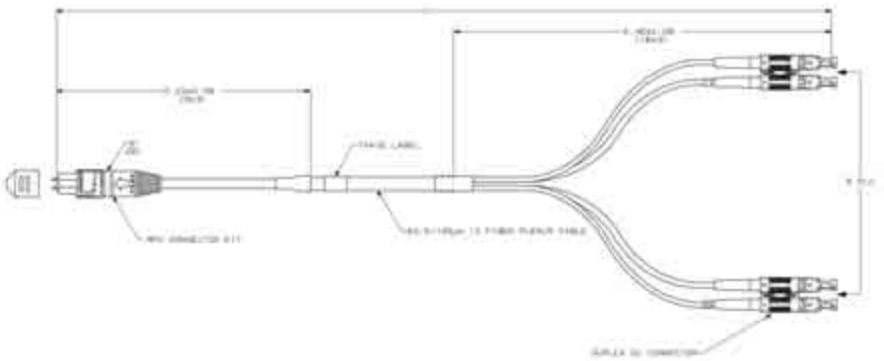
MPO Cable Assemblies (Continued)

MPO Cable Assemblies for Premise Networks (Continued)

MPO to SC Duplex PASS-THROUGH Fan-out

6 pair (12 fiber), straight through 62.5/125 multimode



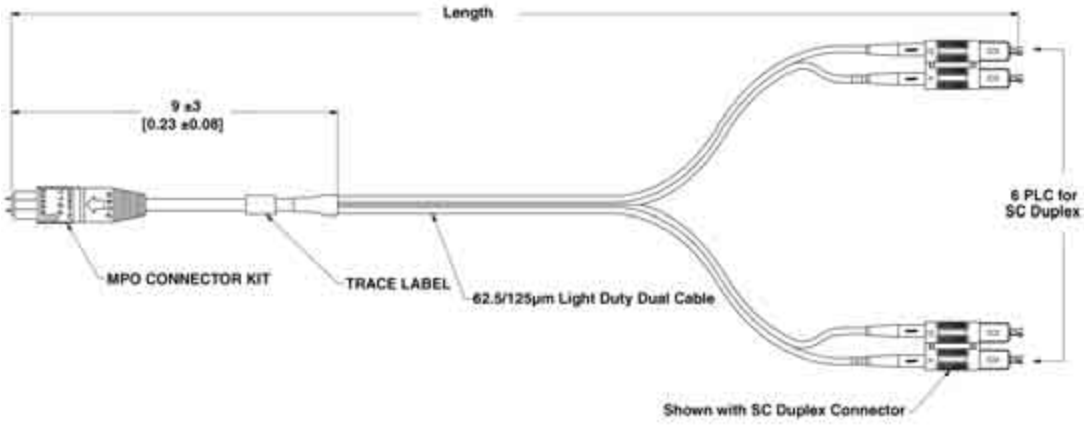
MPO to SC Duplex

Overall Length [L]	Part Number (OFNP)
6 meter [19.7 feet]	5492362-6
8 meter [26.3 feet]	5492362-8
10 meter [32.8 feet]	1-5492362-0
15 meter [49.2 feet]	1-5492362-5
20 meter [65.6 feet]	2-5492362-0

Additional lengths available.
Custom lengths can be built to customer's specifications.

MPO to SC Duplex Zipcord Fan-out

6 pair (12 fiber), straight through 62.5/125 multimode



MPO to SC Duplex

Overall Length [L]	Part Number
6 meter [19.7 feet]	5492363-6
8 meter [26.3 feet]	5492363-8
15 meter [49.2 feet]	1-5492363-5

Additional lengths available.
Custom lengths can be built to customer's specifications.

Note: All part numbers are RoHS compliant.

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MPO Cable Assemblies (Continued)

MPO Cable Assemblies for Mainframes

Description

- **A modular "plug-and-go" optical cabling system for mainframe information centers**

Application

- **Replaces copper bus-and-tag cables in parallel architecture, or streamlines IBM ESCON serial fiber optic technology**

Product Facts

- **Proven NTT MT linear array technology in the MPO connector**
- **MPO packs up to 12 optical fibers into a single miniaturized connector about the same size as one SC type**
- **ESCON Connectors are IBM Approved and 100% compatible**
  - **Direct attach harnesses**
  - **Jumper cables**
- **Cables are pre-terminated and tested**
- **Distribution hardware is pre-loaded**
- **Cable rating options:**
  - **Riser rated, UL-OFNR (std.)**
  - **Plenum rated, UL-OFNP**
  - **Low smoke, Zero Halogen rated, LSZH**
- **Singlemode or Multimode**

Other Applications

- **Cabling System for Premise Networks**
- **Produced under a Quality Management System certified to ISO 9001**

  A copy of the certificate is available upon request

IBM-APPROVED ESCON SUPPLIER

Tyco Electronics' MPO modular cabling system is structured to provide unparalleled ease and flexibility in the cabling of IBM Enterprise Systems Connection architecture (ESCON).

MPO provides every thing you need to cable your data center:

- assorted lengths of MPO connectorized 36 and 72-fiber trunks
- 8 or 12-fiber mini-trunks
- MPO to ESCON direct attach harnesses
- pre-loaded distribution enclosures
- MPO coupler bushing mounting brackets
- cable clamps
- ESCON jumper cables

Select what you need to connect your system and plug it in. Installation is faster and easier with cables selected specifically for the hardware layout in your data center.

MPO trunk cables deployed around the periphery or down the center of the computer room through under-floor conveyance systems provide plug-and-go connectivity to pre-loaded MPO distribution enclosures mounted in main and zone cabinets throughout the data center.

Multiple layers of MPO trunks and distribution hardware allow the data center to be divided into zones. Zoning further increases simplicity and flexibility of connections between equipment.

MPO mini-trunks, ESCON jumper cables and harnesses plugged into the distribution panels provide final connections to IBM Enterprise Systems processors, ESCON directors, and I/O devices.

Tyco Electronics' MPO System eliminates thick, inflexible point-to-point copper cables, or tangled bundles of ESCON jumpers running under computer room floors.

Once installed, the MPO System simplifies the hassles associated with migration. Because fiber transmissions are electrically silent, systems can be upgraded without planned outages. Re-configuring and rearranging equipment is six times faster, since only one connector is plugged in. It is also as simple as unplugging the trunk from the ESCON harness, leaving the harness to be removed with the equipment. Each MPO cable is removable and reusable.

The MPO System takes the superior performance of ESCON fiber optic technology one step further — by simplifying installation and migration, while opening up crowded space under computer room floors, improving air flow and breathing new life into data centers.

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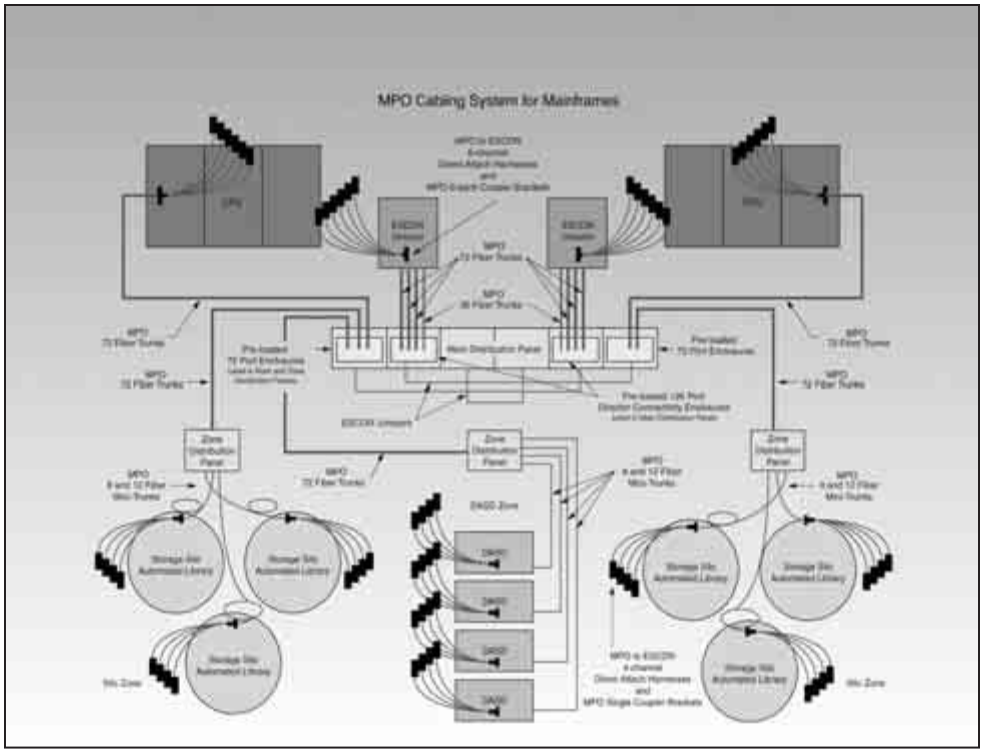
MPO Cable Assemblies (Continued)

MPO Cable Assemblies for Mainframes (Continued)

Product Facts

- Fiber wiring pattern is pair-flipped (AB/BA)
- Also available in straight-through (AB/AB) configuration
- Simple and flexible premise fiber cabling
- All cassettes have MPO trunk connections at rear
- Fits all AMP NETCONNECT Enclosures listed in this catalog that accept snap-in adapter plates
- Easy installation, moves, adds and changes



MPO Cassettes

Part Number	Description	Color	Fiber Count	Fiber Type	Config.
6435067-2	MPO-ST mod.assy.	Black	12	50	Crossed
6278418-2	MPO-ST mod.assy.	Black	12	62.5	Crossed
6754286-1	MPO-MT-RJ mod. assy.	Black	12	50	Crossed
6754288-1	MPO-MT-RJ mod. assy.	Black	24	50	Crossed
6754285-2	MPO-MT-RJ mod. assy.	Black	12	62.5	Crossed
6754287-1	MPO-MT-RJ mod. assy.	Black	24	62.5	Crossed
1938996-1	MPO-MT-RJ mod. assy.	Black	12	SM	Crossed
6828819-1	MPO-MT-RJ mod. assy.	Black	24	SM	Crossed
1918777-1	MPO-MT-RJ mod. assy.	Black	12	Laser Optimized (10 Gig)	Crossed
1918778-1	MPO-MT-RJ mod. assy.	Black	24	Laser Optimized (10 Gig)	Crossed
6435181-2	MPO-SC mod. assy.	Black	12	50	Crossed
6435180-2	MPO-SC mod. assy.	Black	12	62.5	Crossed

Part Number	Description	Color	Fiber Count	Fiber Type	Config.
6435069-2	MPO-SC mod. assy.	Black	12	SM	Crossed
6754333-2	MPO-SC mod. assy.	Black	12	Laser Optimized (10 Gig)	Crossed
1918779-1	MPO-LC mod. assy.	Black	12	50	Crossed
1918780-1	MPO-LC mod. assy.	Black	24	50	Flipped
1918781-1	MPO-LC mod. assy.	Black	12	62.5	Crossed
1918782-1	MPO-LC mod. assy.	Black	24	62.5	Flipped
1938056-1	MPO-LC mod. assy.	Black	12	SM	Crossed
1918786-1	MPO-LC mod. assy.	Black	24	SM	Flipped
1918783-1	MPO-LC mod. assy.	Black	12	Laser Optimized (10 Gig)	Crossed
1918784-1	MPO-LC mod. assy.	Black	24	Laser Optimized (10 Gig)	Flipped

Note: All part numbers are RoHS compliant.

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MPO Cable Assemblies (Continued)

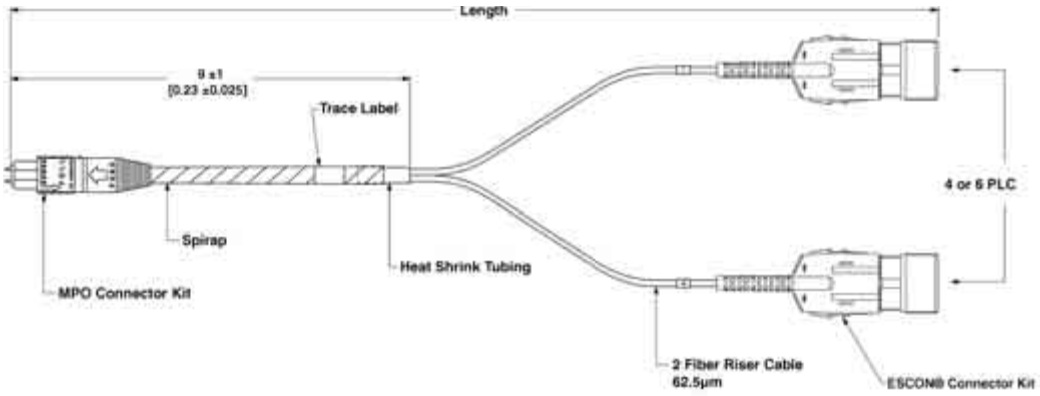
MPO Cable Assemblies for Mainframes (Continued)

MPO to ESCON Direct Attach Harness

4 channel (8 fiber), AB/AB straight through

6 channel (12 fiber), AB/AB straight through

62.5/125 multimode



Harness Length	6 Channel (12 fiber)
	Part Number
3 feet [0.9 meters]	6754335-1

Custom lengths can be built to customer's specifications.
Cable is Riser rated.

ESCON Cable Assemblies 62.5/125 µm Multimode

Cable Type	Length (meters)											
	1	2	3	4	5	7	13	22	31	46	61	122
Riser	5492231-1	5492231-2	5492231-3	5492231-4	5492231-5	5492231-7	1-5492231-3	2-5492231-2	3-5492231-1	4-5492231-6	6-5492231-1	9-5492231-9
Plenum	5492251-1	5492251-2	5492251-3	5492251-4	5492251-5	5492251-7	1-5492251-3	2-5492251-2	3-5492251-1	4-5492251-6	6-5492251-1	9-5492251-9
Low Smoke Zero Halogen	5492275-1	5492275-2	5492275-3	5492275-4	5492275-5	5492275-7	1-5492275-3	2-5492275-2	3-5492275-1	4-5492275-6	6-5492275-1	9-5492275-9

Connectors are black, cable is orange.
Cable construction is two fiber round.
Custom lengths are available.

Note: All part numbers are RoHS compliant.

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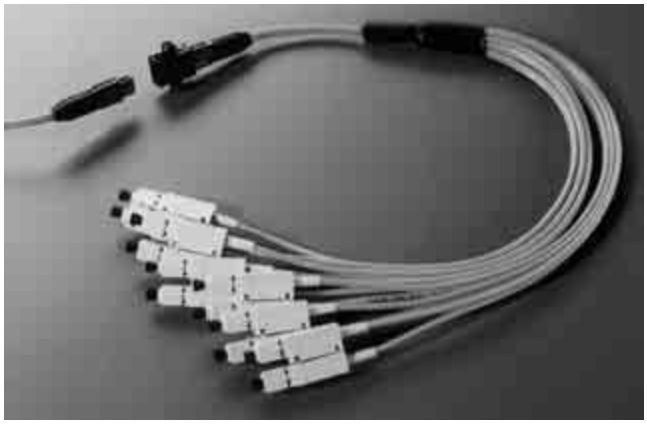
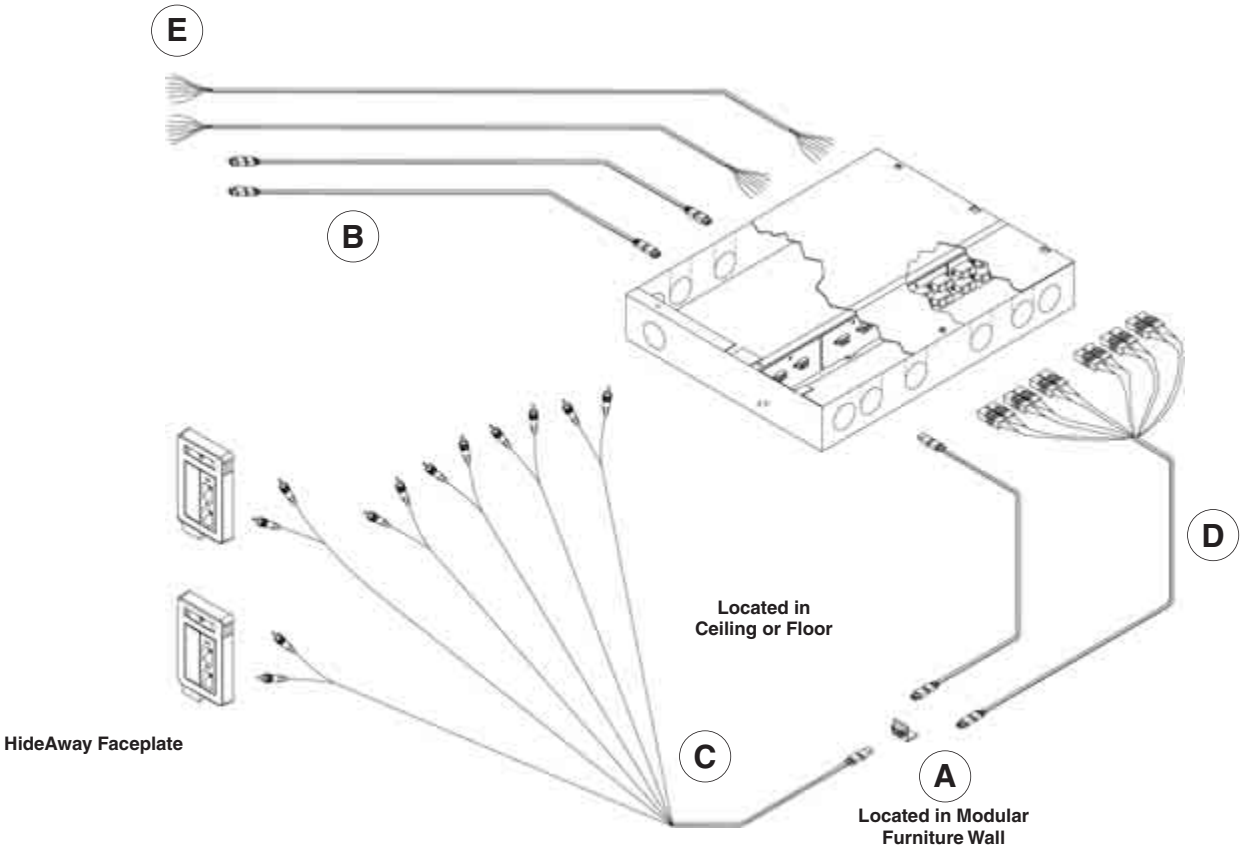
MPO Cable Assemblies (Continued)

MPO Cable Assemblies for Mainframes (Continued)

Tyco Electronics' MPO System delivers the full bandwidth of optical fiber while maintaining the flexibility for the open office with reusable assemblies.





Ordering Information:

	Part Number	Description
A	5504954-1	MPO Receptacle Mounting Bracket
B	5492105-X	MPO Cable Assembly, MPO/MPO straight through, 12 fiber, 62.5/125 mm
C	5492363-Y	MPO Cable Assembly, MPO/SC Duplex long fan-out, 12 fiber, 62.5/125 mm
D	5492362-Z	MPO Cable Assembly, MPO/SC Duplex short fan-out, 12 fiber, 62.5/125 mm

X denotes length in meters: -7 = 15, 1- -4 = 30, 1- -5 = 38, 1- -6 = 45, 2- -0 = 8, 2- -1 = 23
Y denotes length in meters: -6 = 6, -8 = 8, 1- -5 = 15
Z denotes length in meters: -6 = 6, -8 = 8, 1- -0 = 10, 1- -5 = 15, 2- -0 = 20

Note: All part numbers are RoHS compliant.

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High Density PARA-OPTIX Cable Assemblies

Product Facts

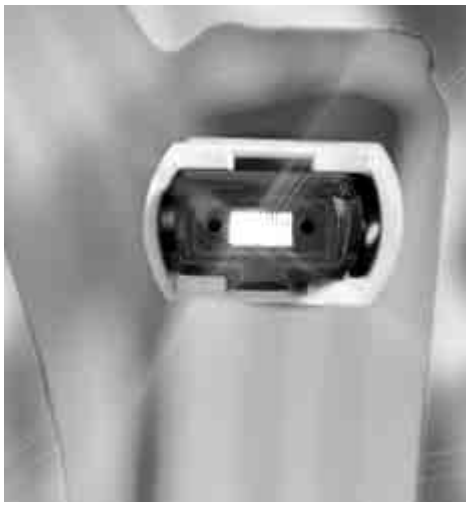
- Uses the latest generation MT-style ferrules
- Available in up to 72 fibers through a single MPO style connector
- Available in 12, 24, 32, 48, and 72 fiber
- Other fiber counts and lengths available
- Save time during installation — requires less connectors
- Reduced space requirements
- Can provide cost benefit on a per-fiber basis

Potential Applications

- Jumpers and trunk cables for Data Centers
- Optical backplanes
- SAN Very Short Reach applications

Please contact your local Sales Representative or Tyco Electronics for detailed performance characteristics and specifications.

Specifications are preliminary and subject to change.



Tyco Electronics' high density PARA-OPTIX cable assemblies use the latest in MT-ferrule technology to provide the maximum fiber density for parallel optical applications.

By terminating these ferrules in MPO style connectors, Tyco Electronics is able to take advantage of the industry standards and acceptance of the MPO connector family.

Tyco Electronics' PARA-OPTIX Cable Assemblies can support up to 72 fibers through a single connector, saving space on the board and time during installation.

Part Number	Description
6588930-X	12-fiber MPO-MPO, 50/125 Multimode
6588967-X	24-fiber MPO-MPO, 50/125 Multimode
6693070-X	32-fiber MPO-MPO, 50/125 Multimode
6693069-X	48-fiber MPO-MPO, 50-125 Multimode
1919166-X	72-fiber MPO-MPO, 50/125 Multimode
6693068-X	48-fiber MPO — (4), 12-fiber MPO, 50/125 bare ribbon
6693067-X	72-fiber MPO — (6), 12-fiber MPO, 50/125 bare ribbon

Note: "X" above denotes length. Check latest version of Tyco Electronics' customer drawing or contact your local sales representative for specific lengths available.

Note: All part numbers are RoHS compliant.

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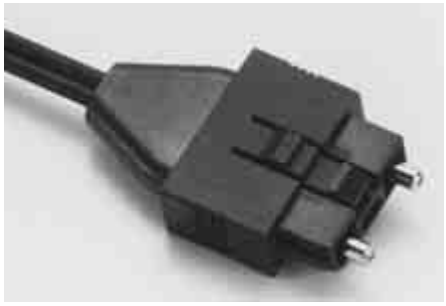
Plastic Fiber Cable Assemblies

F07 Duplex Plastic Fiber Cable Assemblies

Product Facts

- Standard and custom lengths
- Conforms to JISC-5976



Fiber Type	Length	Part Number
980/1000 µm Plastic Optical Fiber	1	5492155-1
	2	5492155-2
	3	5492155-3
	5	5492155-4
	10	5492155-5
	15	5492155-6
	20	5492155-7

Audio-DNP Plastic Fiber Cable Assemblies

Product Facts

- Complies with EIAJ RC-5720 for digital audio equipment and Japan Industry STD F05
- Compatible with TDSLink
- Mates with receptacle configuration CNF50SR3 Type per EIAJ RC-5720
- Economical and highly reliable based on Tyco Electronics' high speed automatic assembly technologies
- Cable assemblies available with or without logo
- 980/100 µm POF cable with UL VW-1 rating

Applications

- I/O and internal cabling of AV, OA, and FA equipment plus automotive internal networking

Performance Characteristics

Operating Temperature — -30 C to +80 C

Max. Insertion Loss — 3.5 dB

Connector Mating Force — 4 Kg max.

Connector Unmating Force — 0.4 to 4 Kg

Cable Retaining Strength — 5 Kg min.

Length (mm)	Cable Assembly Part Number	
	Without Logo	With Logo
300	178671-3	173317-3
400	178671-4	173317-4
500	178671-5	173317-5
600	178671-6	173317-6
700	178671-7	173317-7
800	178671-8	173317-8
900	178671-9	173317-9
1000	1-178671-0	1-173317-0
1100	1-178671-1	1-173317-1
1200	1-178671-2	1-173317-2
1300	1-178671-3	1-173317-3
1400	1-178671-4	1-173317-4
1500	1-178671-5	1-173317-5
1600	1-178671-6	1-173317-6
1700	1-178671-7	1-173317-7
1800	1-178671-8	1-173317-8
1900	1-178671-9	1-173317-9
2000	2-178671-0	2-173317-0
2500	2-178671-1	—
3000	2-178671-2	—
3500	2-178671-3	—
4000	2-178671-4	—
4500	2-178671-5	—
5000	2-178671-6	—
5500	2-178671-7	—
6000	2-178671-8	—
10000	3-178671-6	—

Note: All part numbers are RoHS compliant.

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