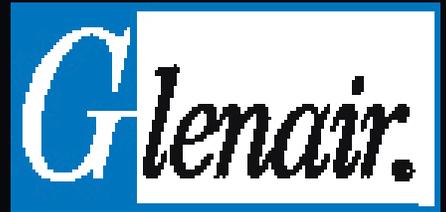
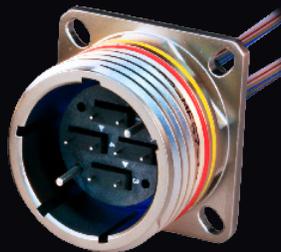


MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



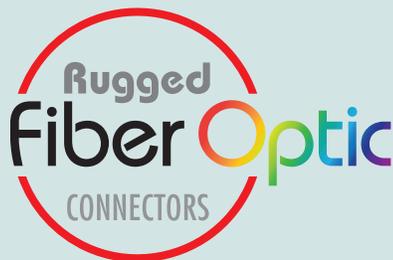
Glennair
SIGNATURE SERIES



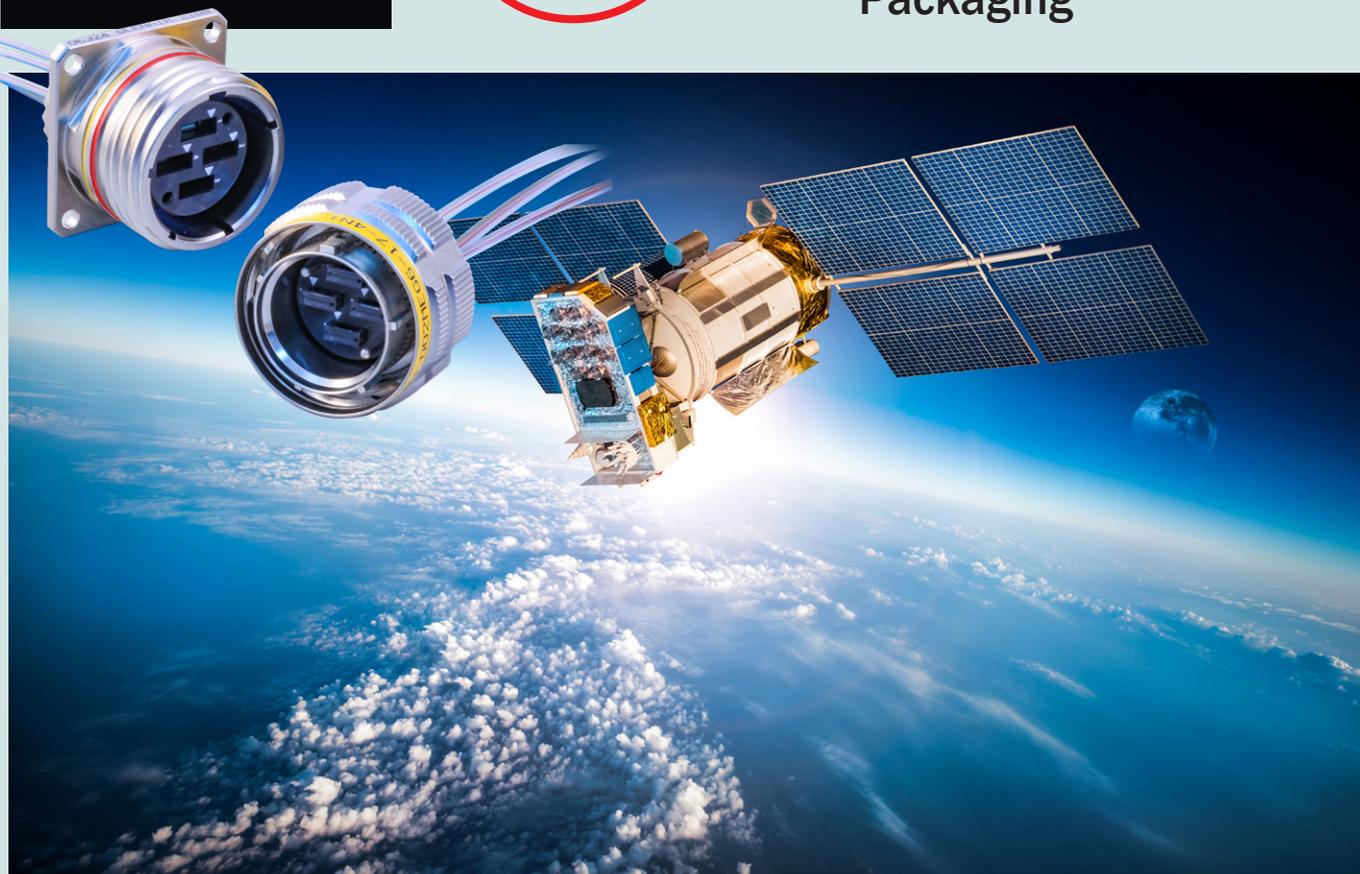
MT Ferrule Fiber Optics Ruggedized, High-Density

MT for SuperNine D38999 · MT for Series 79 Rectangular

GLENAIR
SIGNATURE
FIBER OPTIC
CONNECTION
SYSTEMS



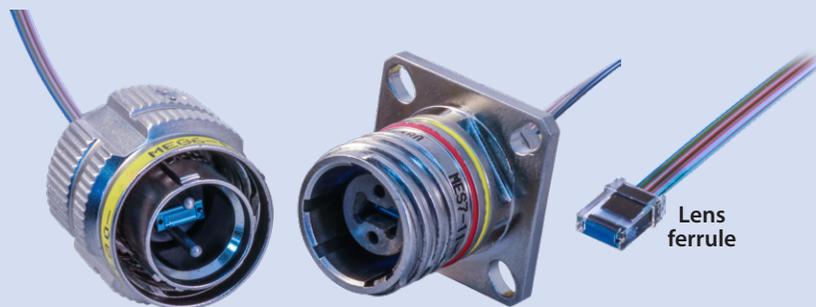
Rugged High-Density
MT Ferrule Fiber Optic
Connection System—with
Mil-Grade SuperNine®
Packaging



Ruggedized, high-density MT ferrule
fiber optics in Glenair Signature
SuperNine® aerospace-grade
MIL-DTL-38999 connectors

- Singlemode and multimode fiber
- Low insertion loss
- Environmental sealing: IP68 in the mated condition
- Physical contact and expanded beam
- Available in composite

ALSO AVAILABLE: EXPANDED-BEAM MT SOLUTIONS



RUGGED, HIGH-DENSITY



24
fibers



3
fibers

Up to 24 fibers in a single compact,
lightweight ferrule (7mm x 3mm)

ULTRA HIGH-DENSITY MT Ferrule



Signature fiber optic connection system: SuperNine D38999

SuperNine® connectors with plug-and-play MT ferrule accommodation - Shell Size / Insert Arrangements

Shell Size-Insert Arrangement 11-1 Up to 24 fibers (1 MT ferrule)	Shell Size-Insert Arrangement 13-2 Up to 48 fibers (2 MT ferrules)	Shell Size-Insert Arrangement 15-3 Up to 72 fibers (3 MT ferrules)	Shell Size-Insert Arrangement 17-4 Up to 96 fibers (4 MT ferrules)

SuperNine® MT Performance Specifications

Test Description	Performance Requirements/Specifications
Optical Insertion Loss, Multimode Expanded Beam	-0.5 dB Typical (50/125)
Optical Insertion Loss, Multimode PC	-0.3 dB Typical (50/125)
Optical Insertion Loss, Singlemode PC	-0.3 dB Typical (9/125)
Optical Insertion Loss, Singlemode APC	-0.3 dB Typical (9/125)
Optical Back Reflection, Multimode Expanded Beam	Better than -28 dB
Optical Back Reflection, Singlemode PC	Better than -30 dB
Optical Back Reflection, Singlemode APC	Better than -60 dB
Mechanical Shock	300 G Half-sine Pulse, 3 ms Duration, 3 Times Both Direction Each Axis per TIA-455-14A
Vibration, Random	49.5 Grms at Ambient Temperature per MIL-STD-1678-3, Measurement 3201, Test Condition C, 5.3c, 8 hours exposure each axis
Mating Durability	500 Mating Cycles per TIA-455-21A
Humidity *	90%-95% RH, 96 hour Exposure per TIA-455-5C, Method A, Test Condition A
Thermal Cycle *	5 Cycles, -40°C to 85°C with 1 hour Exposure per EIA-364-32F, Condition VIII, Method A
Temperature Life *	85°C for 336 hours per TIA-455-4C

*cable and epoxy dependent

TURNKEY SUPERNINE® MT FIBER OPTIC CABLE SETS

Glenair can design, terminate, and test complex multibranch and point-to-point assemblies incorporating SuperNine® MT connectors Panel mount MT receptacles may be terminated to standard commercial fiber optic interconnects for termination to board-level transceivers. MT plug assemblies are available with ruggedized backshells or environmental overmolding. Low-profile cable overmolds provide fiber media organization and ribbon-to-wire strain relief.

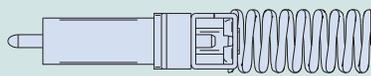
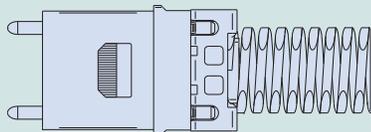


PARALLEL OPTICAL TRANSCIEVERS



The ideal solution for board-level optical-to-electrical conversion utilizing MT fiber optic ferrules.

HOW-TO-ORDER MT FERRULE KITS



Sample Part Number	181-139	-1253	-12	M
Basic Part Number	MT Ferrule kit			
Fiber type	-126, -1253, -1253A (See Table I)			
Number of Fibers	-12, -24 (See Table I)			
Ferrule Style	M = Male (use with Plug) F = Female (use with Receptacle)			

Table I

Dash No.	Fiber Type	End Face	Fiber Size Core/Cladding	No. of Fibers	Ferrule Identification
-126	MM	PC	50/125	12	M-ME12
			62.5/125	24	M-ME24
-1253	SM	PC	9/125	12	E-E12
-1253A	SM	APC	9/125	12	M-ME12
				24	M-ME24

MATERIAL/FINISH

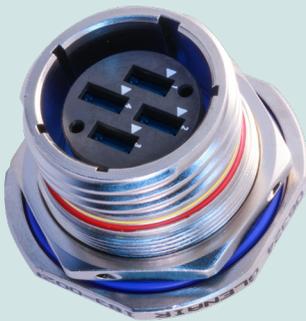
- Ferrule: Polyphenylene Sulfide Resin
- Pin Clamp, Spring: Stainless Steel
- Boot: TPE

SuperNine MT Fiber Optic Connectors

How to order connectors



SuperNine MT Cable Plug						
Sample Part Number	183-002	ME	G6	-17-4	N	1
Basic Part Number	MT Ferrule Fiber Optic Connector					
Material/Finish Code	See Table I					
Connector Style	G6 = Plug with EMI/RFI ground spring					
Shell Size / Insert Arrangement	11-1, 13-2, 15-3, 17-4 Order MT ferrule kit P/N 181-139					
Alternate Key Position	A, B, C, D, E, N = Normal U = Universal (per MIL-DTL-38999)					
Insert Cavity Clocking Orientation (see Table II)	1 = Standard position 2 = Cavity position rotated 45° to master key/keyway 3 = Cavity position rotated 90° to master key/keyway					

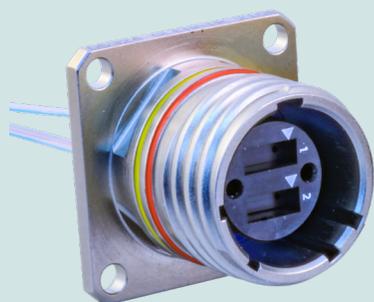


SuperNine MT Jam Nut Mount Receptacle						
Sample Part Number	183-002	ME	08	-17-4	N	1
Basic Part Number	MT Ferrule Fiber Optic Connector					
Material/Finish Code	See Table I					
Connector Style	08 = Jam nut receptacle					
Shell Size / Insert Arrangement	11-1, 13-2, 15-3, 17-4 Order MT ferrule kit P/N 181-139					
Alternate Key Position	A, B, C, D, E, N = Normal U = Universal (per MIL-DTL-38999)					
Insert Cavity Clocking Orientation (see Table II)	1 = Standard position 2 = Cavity position rotated 45° to master key/keyway 3 = Cavity position rotated 90° to master key/keyway					

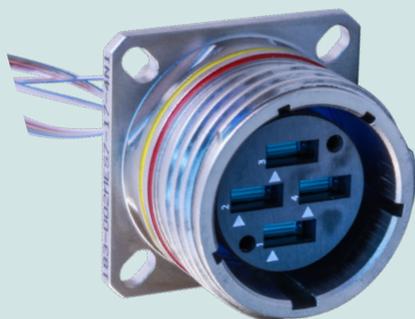


SuperNine MT In-Line Receptacle						
Sample Part Number	183-002	ME	05	-17-4	N	1
Basic Part Number	MT Ferrule Fiber Optic Connector					
Material/Finish Code	See Table I					
Connector Style	05 = In-line receptacle					
Shell Size / Insert Arrangement	11-1, 13-2, 15-3, 17-4 Order MT ferrule kit P/N 181-139					
Alternate Key Position	A, B, C, D, E, N = Normal U = Universal (per MIL-DTL-38999)					
Insert Cavity Clocking Orientation (see Table II)	1 = Standard position 2 = Cavity position rotated 45° to master key/keyway 3 = Cavity position rotated 90° to master key/keyway					

How to order connectors



SuperNine MT Wall-Mount Receptacle, Standard Holes						
Sample Part Number	183-002	ME	H7	-17-4	N	1
Basic Part Number	MT Ferrule Fiber Optic Connector					
Material/Finish Code	See Table I					
Connector Style	H7 = Wall-mount receptacle with round holes					
Shell Size / Insert Arrangement	11-1, 13-2, 15-3, 17-4 Order MT ferrule kit P/N 181-139					
Alternate Key Position	A, B, C, D, E, N = Normal U = Universal (per MIL-DTL-38999)					
Insert Cavity	1 = Standard position					
Clocking Orientation (see Table II)	2 = Cavity position rotated 45° to master key/keyway 3 = Cavity position rotated 90° to master key/keyway					



SuperNine MT Wall-Mount Receptacle, Slotted Holes, Clinch Nuts, Helicoils						
Sample Part Number	183-002	ME	S7	-17-4	N	1
Basic Part Number	MT Ferrule Fiber Optic Connector					
Material/Finish Code	See Table I					
Connector Style	S7 = Wall-mount receptacle with slotted holes CM = Wall-mount receptacle with metric clinch nuts CS = Wall-mount receptacle with standard clinch nuts HM = Wall-mount receptacle with metric helicoils HS = Wall-mount receptacle with standard helicoils					
Shell Size / Insert Arrangement	11-1, 13-2, 15-3, 17-4 Order MT ferrule kit P/N 181-139					
Alternate Key Position	A, B, C, D, E, N = Normal U = Universal (per MIL-DTL-38999)					
Insert Cavity	1 = Standard position					
Clocking Orientation (see Table II)	2 = Cavity position rotated 45° to master key/keyway 3 = Cavity position rotated 90° to master key/keyway					

Code	Material	Finish Description
ME	Aluminum Alloy	Electroless Nickel
MT		Nickel-PTFE, Grey
NF		Cadmium, Olive Drab
ZR		Zinc-Nickel, Black
TZ		Tin-Zinc, Green/Gold
XM	Composite	Electroless Nickel
XW		Cadmium, Olive Drab
Z1	Stainless Steel	Passivate
ZL		Electro-Deposited Nickel

Code	Shell Size-Arrangement 11-1	Shell Size-Arrangement 13-2	Shell Size-Arrangement 15-3	Shell Size-Arrangement 17-4
1				
2				
3				

NOTES

- Pin (male) and socket (female) ferrule kits can be used in either plug or receptacle connectors. Preferred configuration is female ferrule in receptacle connector

GLENAIR
SIGNATURE
FIBER OPTIC
CONNECTION
SYSTEMS



Rugged High-Density MT Ferrule Fiber Optic Connection System— With Mil-Grade Miniature Series 79 Packaging



Glenair is qualified by US Conec to terminate 1 and 2 row PRIZM® MT and MXC® Ferrules for ribbon and round cable fiber.

Single-ferrule high-density
MT datalinks in Glenair
Signature Series
79 rectangular
packaging
optimize SWaP in
mission-critical
mil-aero
applications



Connector series supports both ribbon and round cable, as well as standard and expanded-beam MT ferrules

- Small form-factor, high-density fiber optic solution for rugged mil-aero applications
- Temperature tolerance from -40°C to +85°C
- Optimized for use with parallel optical transceivers in ribbon or round cable applications
- Designed for optimal low insertion loss performance in high vibration and shock environments

ULTRA HIGH-DENSITY Rugged MT Fiber Optic Connectors



Signature fiber optic connection system: miniature Series 79 packaging



-06 plug, with retaining plate for EMI shield termination and strain relief of ribbon or round fiber cable



-S7 receptacle with standard retaining plate



-S7 receptacle with conductive EMI gasket

ABOUT SERIES 79 MT FIBER OPTIC CONNECTORS

Designed in accordance with rugged mil-aero industry specifications, the Glenair Series 79 MT fiber optic connector is the world's smallest ruggedized MT connector solution. High-density MT ferrules are packaged in precision-machined rectangular aluminum shells with electroless nickel finish, or passivated stainless steel shells for higher temperature applications. Receptacles may be equipped with optional EMI gaskets, and mate bottom-to-bottom with plug assemblies for robust resistance to vibration and shock. Designed for harsh-environment, inside-the-box use in parallel optics, fiber optic backplanes, missile systems, spacecraft and satellites, heads-up displays, and other ribbonized or flex-circuit fiber optic datalinks, the Series 79 MT delivers superior low insertion-loss performance (up to 500 mating cycles). Connectors are supplied in single (consult factory for dual and quad) MT configurations with banding platform or ultra low-profile retaining plate options.

The MT Ferrule High-Density Advantage



24 fibers



3 fibers

Up to 24 fibers in a single compact, lightweight ferrule (7mm x 3mm / .276" x .118")—same real estate as three size #16 termini side by side

PARALLEL OPTICAL TRANSCEIVERS



Glenair's rugged, small form-factor parallel optical transceivers are the ideal solution for board-level optical-to-electrical conversion utilizing MT fiber optic ferrules.

Series 79 MT Ferrule Fiber Optic Connector Performance Specifications per QTP-773 and Test Report GT-19-111

Test Description	Test Results
Optical Insertion Loss, multimode (consult factory for singlemode)	50/125 μm fiber @ 850 nm: ≤0.15 dB average; 0.31 dB typical 50/125 μm fiber @ 1300 nm: ≤0.21 dB average; 0.38 dB typical
Temperature Cycling: per TIA/EIA-455-3, Test Condition C-2	- 40°C to +85°C, 5 Cycles, 56 hours Max. CIT = .25 dB; Max. IL post-test = .30 dB
Mating Durability	First 100 cycles with CIT measured every 10 cycles Max. CIT = 0.12 dB; Max. IL post-test = 0.20 dB
Mating Durability, Extended	From 101st cycle to 500th cycle with CIT measured every 25 cycles Max. CIT = 0.21 dB; Max. IL post-test = 0.30 dB
Physical Shock 1: 50g Peak, 11 ms duration, per TIA/EIA-455-14, Test Condition E	Max. CIT = 0.14 dB; Max. IL post-test = 0.42 dB; discontinuity ≤0.5 dB @ <1 us.
Physical Shock 2: 160g Peak, 4 ms duration, per MIL-STD-202, Method 213	Max. CIT = 0.04 dB; Max. IL post-test = 0.40 dB; discontinuity ≤0.5 dB @ <1 us.
Additional Physical Shock: 300g Peak, 0.5 ms duration, per MIL-STD-883E, Method 2002.4 (30 shocks total)	Max. CIT = .15 dB; Max. IL post-test = 0.20 dB; discontinuity ≤0.5 dB @ <1 us.
Vibration 1: 5-15 Hz, .12" double amplitude, 2 hours/axis (6 hours total) per MIL-STD-202, test condition 201, Sinusoidal	Max. CIT = 0.06 dB; Max. IL post-test = 0.37 dB
Vibration 2: 20g Peak, 10-2,000 Hz, 4 hours/axis (12 hours total) per TIA-455-11, Test Condition IV, Sinusoidal	Max. CIT = 0.08 dB; Max. IL post-test = 0.43 dB
Weight	Plug with Ferrule kit 5.5 grams · Receptacle with Ferrule kit 7.5 grams

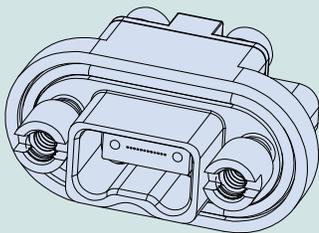
SERIES 79 MINIATURE MT Fiber Optic Connectors

183-003 Standard Series 79 MT How To Order

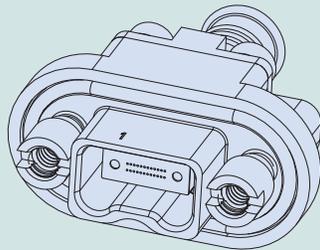
Glenair is qualified by US
Conec to terminate 1 and
2 row PRIZM® MT and
MXC® Ferrules for ribbon
and round cable fiber.



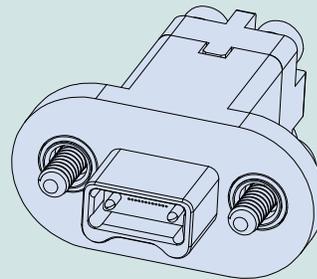
How To Order	
Sample Part Number	183-003 ME -06 -L -1 A -APC
Basic Number	Series 79 Single MT Fiber Optic Connector
Material / Finish	ME = Al Alloy / Electroless Nickel MT = Al Alloy / Nickel PTFE ZR = Al Alloy / Zinc Nickel, Black NF = Al Alloy / Cadmium, O.D. Z1 = Stainless Steel / Passivate
Connector Type	-06 = Plug (used with male MT ferrule) -07 = Receptacle (used with female MT ferrule) -S7 = Receptacle with EMI gasket (used with female MT ferrule)
Mounting Hardware	Hardware for PLUGS Rear Panel Mount Jackposts for RECEPTACLES: -L = Hex Head Jackscrew, non-removable -X = for .031" panel thickness -K = Slotted Head Jackscrew, non-removable -W = for .047" panel thickness -B = Thru-Hole -V = for .062" panel thickness -T = for .094" panel thickness -R = for .080" panel thickness
Retaining Plate / Banding Platform	-1 = 12 or 24 channel without banding platform -2 = 12 or 24 channel with banding platform for EMI shield termination and strain relief N = No Retaining Plate (For use with standalone retaining plate) See Dwg. 189-168 for various retaining plate designs See Dwg. 189-177 for retaining plate used with Prizm-MT on Jacketed Cable
Polarization Key Position	A or B position for Plug; A, B, or U position for Receptacle Omit for no Polarization Key. See Table.
APC / Flat MT option	-APC = for use with angled MT Ferrule (MT/APC) Omit = for use with flat MT ferrule (MT/PC) including Prizm-MT



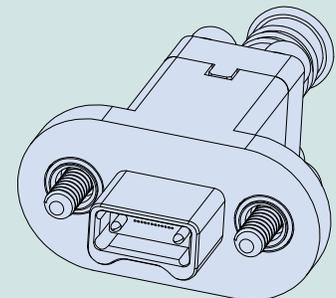
Receptacle with female MT ferrule, available with or without EMI gasket



Receptacle with female MT ferrule, retaining plate, and banding platform



Plug with male MT ferrule and retaining plate



Plug with male MT ferrule with retaining plate and banding platform

MATERIAL/FINISH/NOTES

Mounting hardware: stainless steel / passivated

EMI gasket (optional): conductive silicone

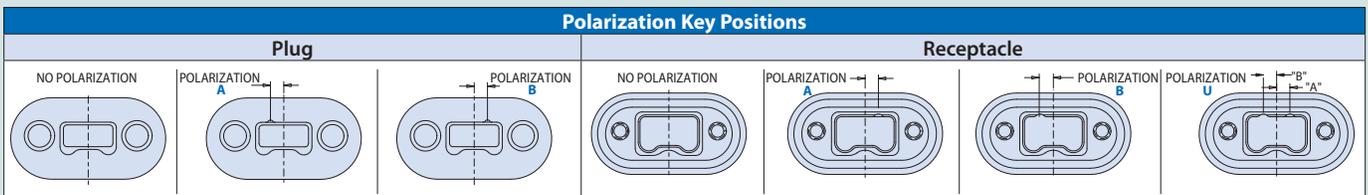
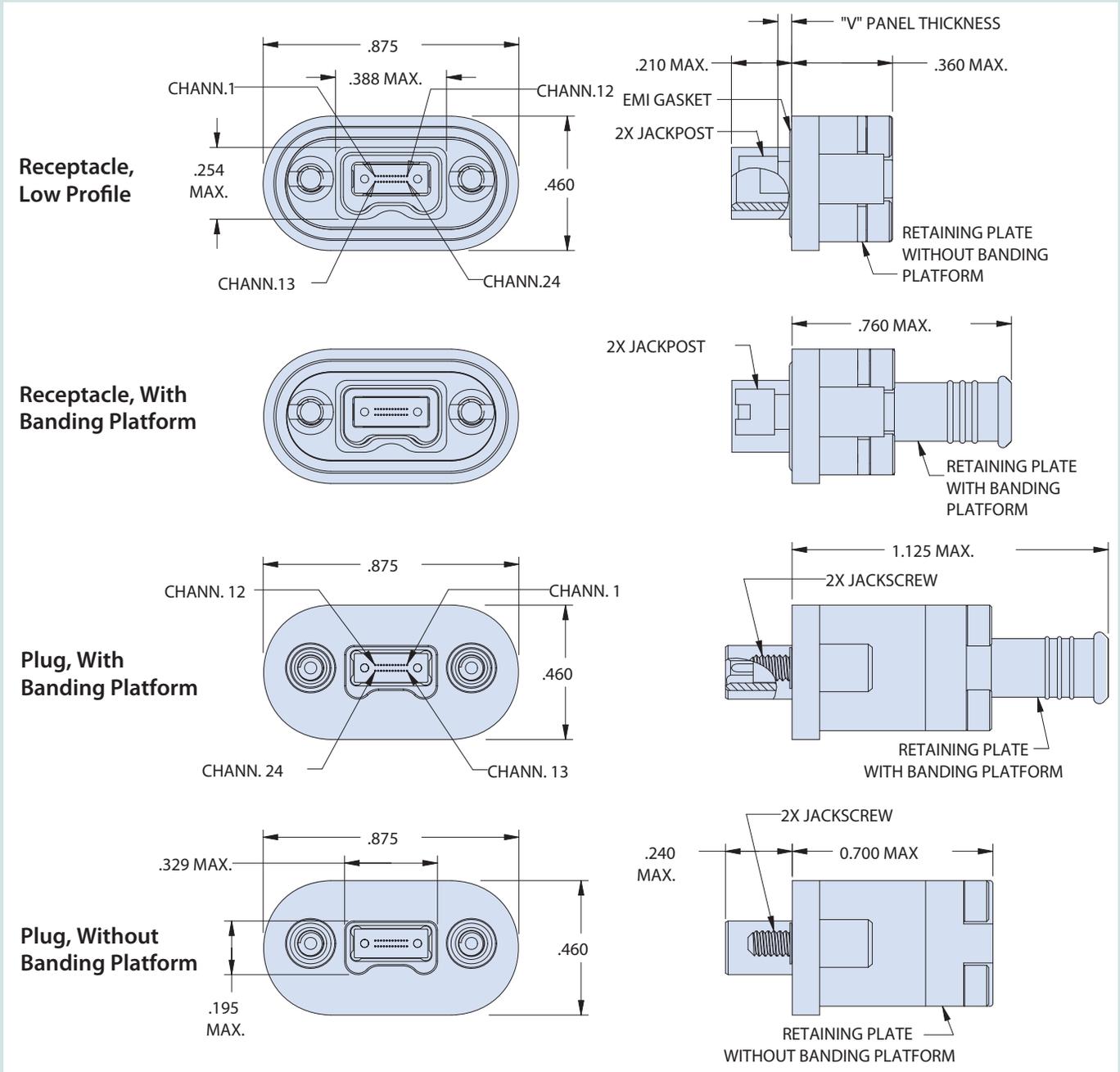
Additional materials, finishes, connector configurations (dual and quad layouts), and hardware options are available, consult factory

SERIES 79 MINIATURE MT Fiber Optic Connectors

183-003 Standard Series 79 MT Connector styles and dimensions



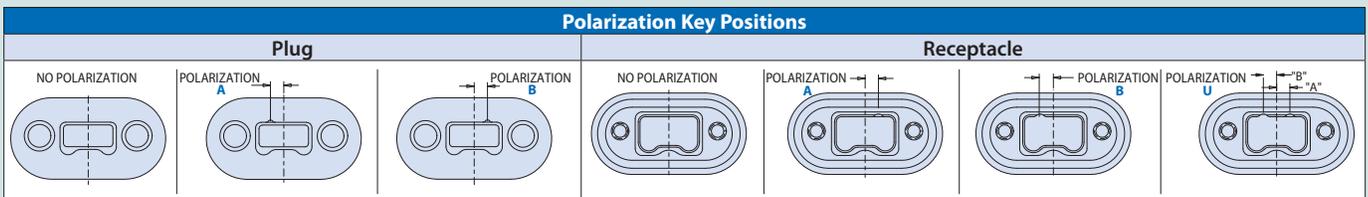
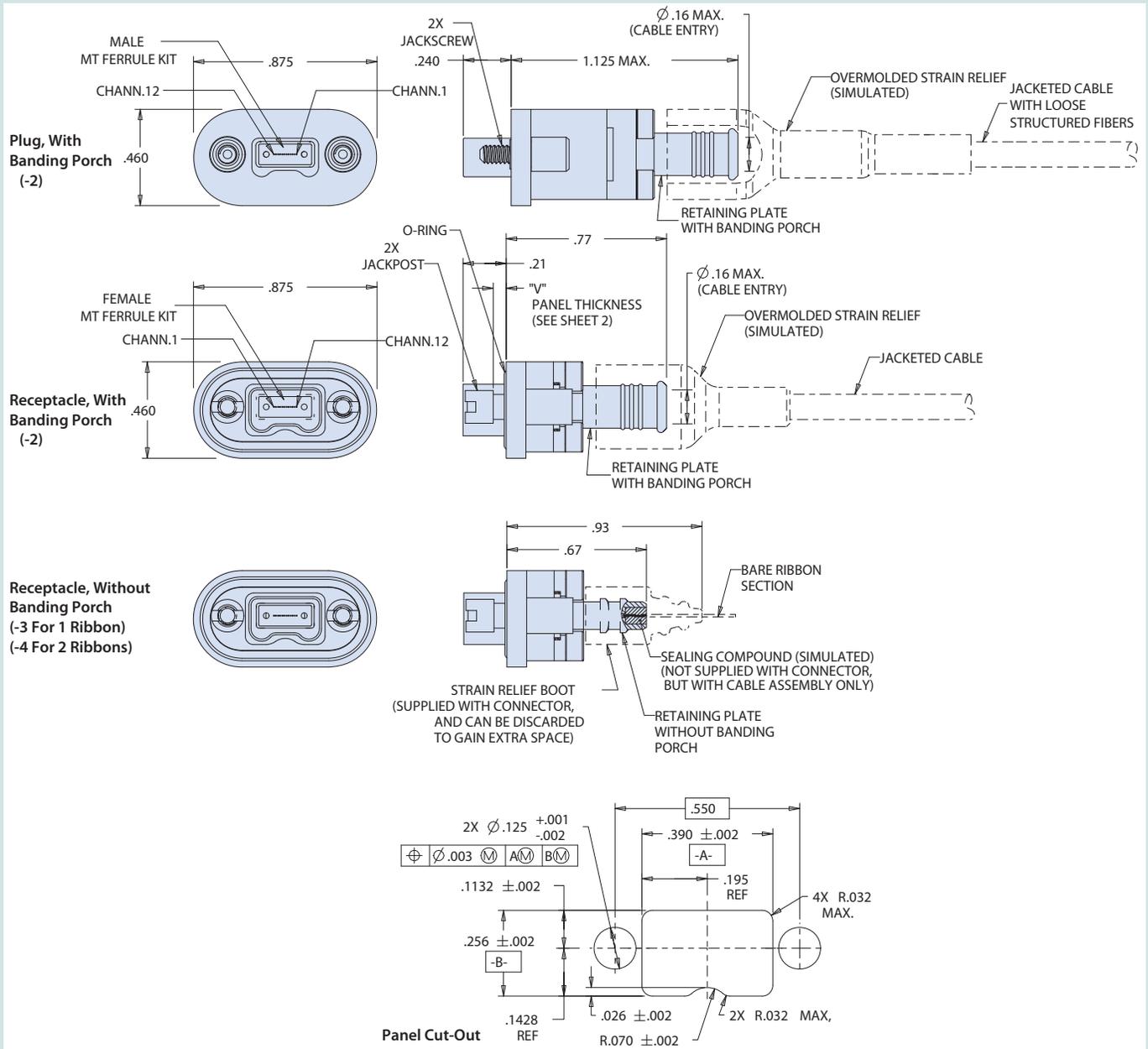
Glenair is qualified by US Conec to terminate 1 and 2 row PRIZM® MT and MXC® Ferrules for ribbon and round cable fiber.



SERIES 79 MINIATURE MT Fiber Optic Connectors



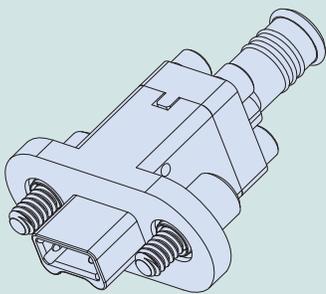
183-014 Environmental Series 79 MT Connector styles and dimensions



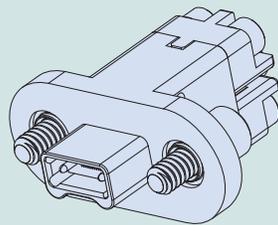
SERIES 79 MINIATURE MT Fiber Optic Connectors

183-021 Series 79 MT with expanded polarized keying positions and #4-40 UNC jackscrew · How To Order

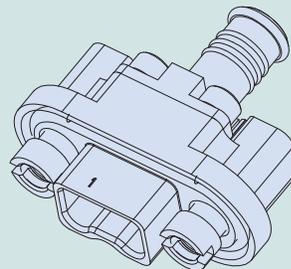
How To Order	
Sample Part Number	183-021 ME -06 -L -1 -A13 -APC
Basic Number	Series 79 Single MT Fiber Optic Connector
Material / Finish	ME = Al Alloy / Electroless Nickel MT = Al Alloy / Nickel PTFE ZR = Al Alloy / Zinc Nickel, Black NF = Al Alloy / Cadmium, O.D. Z1 = Stainless Steel / Passivate
Connector Type	-06 = Plug (used with male MT ferrule) -07 = Receptacle (used with female MT ferrule) -S7 = Receptacle with EMI O-ring (used with female MT ferrule)
Mounting Hardware	Hardware for PLUGS -L = Hex Head Jackscrew, non-removable -B = Thru-Hole Rear Panel Mount Jackposts for RECEPTACLES: -X = for .031" panel thickness -W = for .047" panel thickness -V = for .062" panel thickness -T = for .094" panel thickness -R = for .080" panel thickness (panel thickness dims ±.002")
Retaining Plate / Banding Platform	-1 = 12 or 24 channel without banding porch -2 = 12 or 24 channel with banding porch -N = No Retaining Plate (For use with standalone retaining plate) See Dwg. 189-168 for various retaining plate designs See Dwg. 189-177 for retaining plate used with Prizm-MT on Jacketed Cable
Polarization Key Position	See POLARIZED KEYING POSITIONS Table -U = Universal position for Receptacle only Omit for no Polarization Key. See Table.
APC / Flat MT option	-APC = for use with angled MT Ferrule (MT/APC) Omit = for use with flat MT ferrule (MT/PC) including Prizm-MT



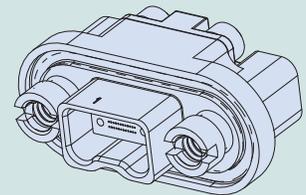
Plug
with Banding Porch



Plug
without Banding Porch



Receptacle
with Banding Porch



Receptacle
without Banding Porch

Additional Components
181-133 or 181-150 MT Ferrule Kit
601-500 or 601-501 Band-Master ATS® Nano Band for shield termination
189-172 Dust Cap
189-168 or 189-177 Various Retaining Plate Designs

MATERIAL/FINISH/NOTES

Mounting hardware: stainless steel / passivated

EMI O-ring: conductibe fluorosilicone Standard O-ring: fluorosilicone/silicone blend

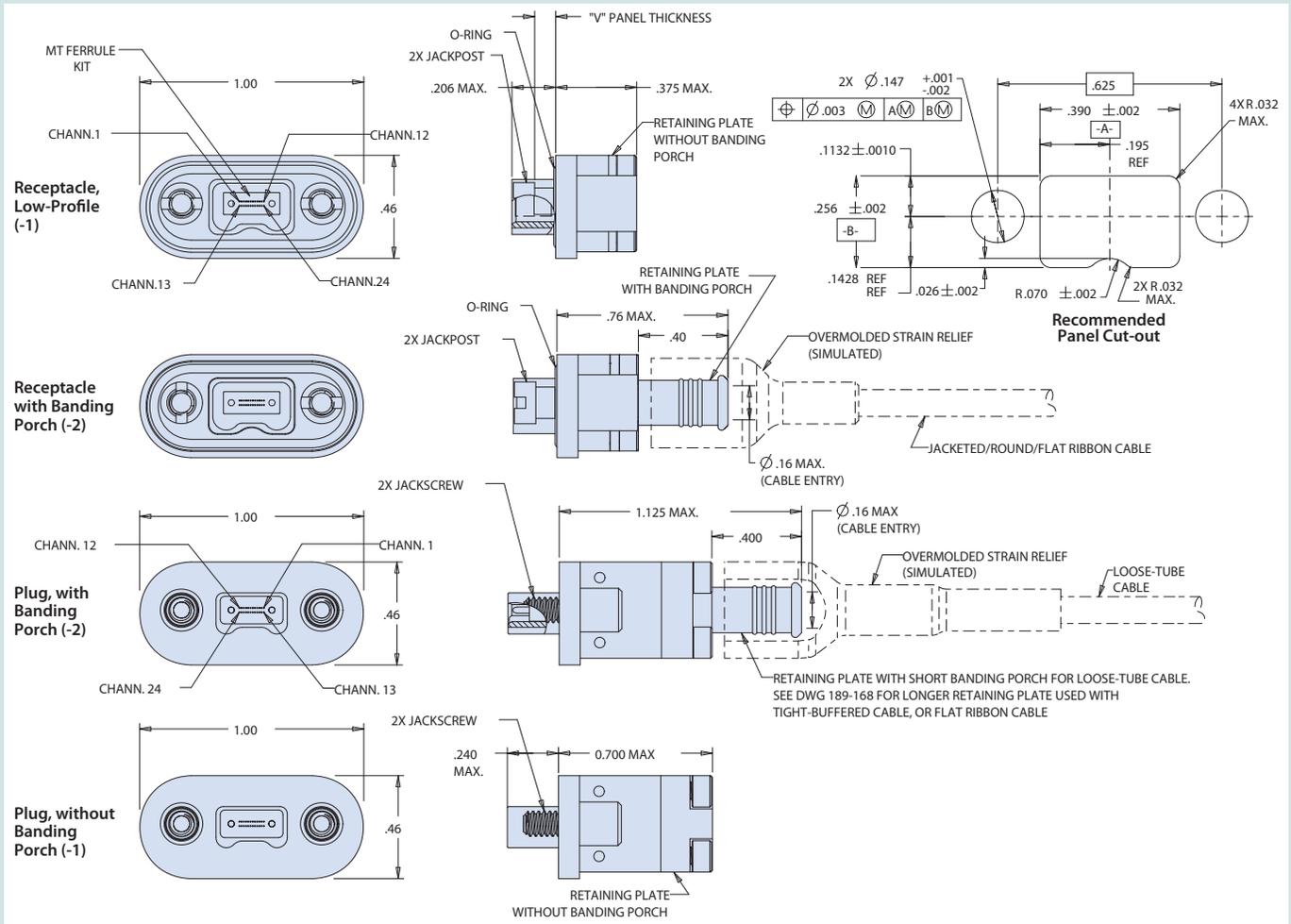
Additional materials, finishes, connector configurations (dual and quad layouts), and hardware options are available, consult factory

Connectors supplied without MT ferrule kit, purchase separately per P/N 181-133 or 181-150

SERIES 79 MINIATURE MT Fiber Optic Connectors



183-021 Series 79 MT with expanded polarized keying positions and #4-40 UNC jackscrew · Connector styles and dimensions

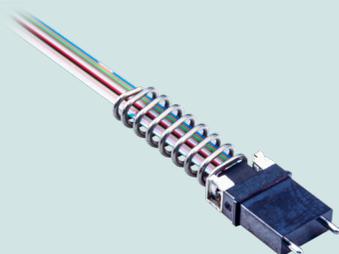


POLARIZED KEYING POSITIONS (Front view, receptacle) CODES and Plug / Receptacle Key Designations

				(Omit) No Polarization Key, Plug			
				-U Universal Key Receptacle			

SERIES 79 MINIATURE MT Fiber Optic Connectors

How To Order MT Ferrule Kits



How To Order					
Sample Part Number		181-133	-126	-12	P
Basic Part Number	MT Ferrule kit				
Fiber type	-126, -1253, -1253A (See Table I)				
Number of Fibers	-12, -24 (See Table I)				
Ferrule Style	P = Male (use with Plug) S = Female (use with Receptacle)				

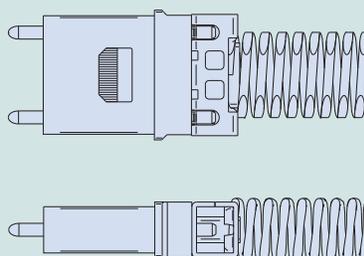


Table I						
Dash No.	Fiber Type	End Face	Fiber Size Core/Cladding	No. of Fibers	Ferrule Identification	Pin Clamp Identification (Male Kit only)
-126	MM	PC	50/125 62.5/125	12 24	M-ME12 M-ME24	1 Through Hole
-1253	SM	PC	9/125	12	E-E12	2 Through Holes
-1253A	SM	APC	9/125	12	E-E12	2 Through Holes

MATERIAL/FINISH

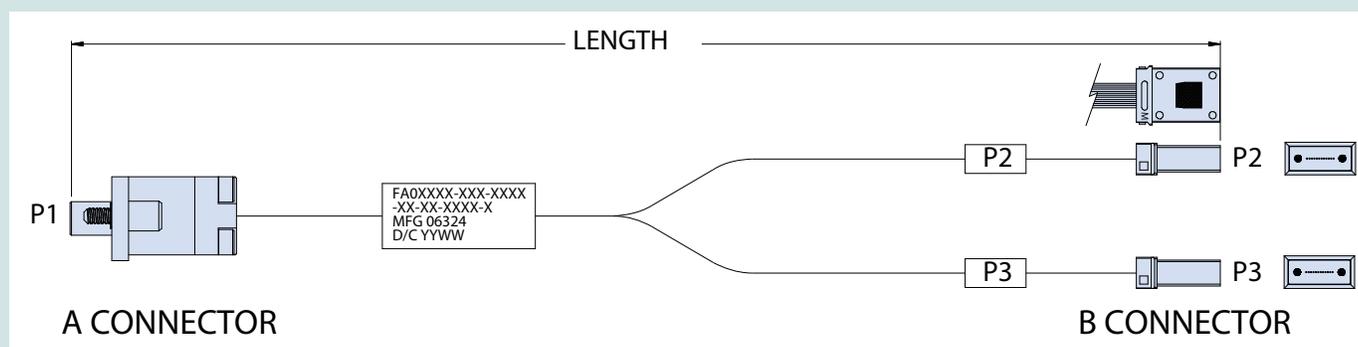
- Ferrule: Polyphenylene Sulfide Resin
- Pin Clamp, Spring: Stainless Steel
- Boot: TPE

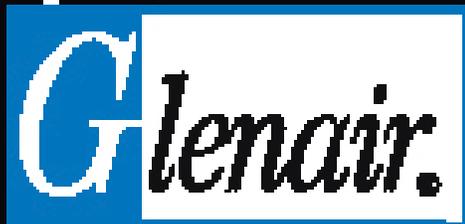
SERIES 79 MINIATURE MT Fiber Optic Connectors



How To Order Series 79 MT to MT Ferrule Cable Assembly

How To Order	
Sample Part Number	FA07364 -06 -17 ME -B4 -50 -L -1 -036 L
Basic Number	Series 79 MT Ferrule Fiber Optic Cable Assembly
A Connector Type	-06 = Sr. 79 Plug 183-003 (used with male MT ferrule) -07 = Sr. 79 Receptacle 183-003 (used with female MT ferrule) -S7 = Sr. 79 Receptacle 183-003 with EMI gasket (used with female MT ferrule)
B Connector Type	-06 = Sr. 79 Plug 183-003 (used with male MT ferrule) -07 = Sr. 79 Receptacle 183-003 (used with female MT ferrule) -S7 = Sr. 79 Receptacle 183-003 with EMI gasket (used with female MT ferrule) -12 = ST Connector -13 = FC Connector -14 = SC Connector -15 = GC Connector -16 = LC Connector -17 = MT Connector (male) -18 = MT Connector (female) -19 = MTP Connector (male) -20 = MTP Connector (female)
Material / Finish (-06, -07, -S7)	ME = Al Alloy / Electroless Nickel MT = Al Alloy / Nickel PTFE ZR = Al Alloy / Zinc Nickel, Black NF = Al Alloy / Cadmium, O.D. Z1 = Stainless Steel / Passivate
Fiber Qty. / Type	-B2 = 12 bare ribbon fibers -B4 = 24 bare ribbon fibers -R2 = 12 round ribbon fibers -R4 = 24 round ribbon fibers
Fiber Size	-09 = 9.3/125 Singlemode -50 = 50/125 Multimode -62 = 62.5/125 Multimode
Mounting Hardware (A Connector)	Plug -L = Hex head jackscrew, non-removable -B = Thru-hole Receptacle -X = Rear-panel jackpost, .031" thickness -W = Rear-panel jackpost, .041" thickness -V = Rear-panel jackpost, .062" thickness -T = Rear-panel jackpost, .094" thickness -R = for .080" panel thickness
Mounting Hardware (B Connector, applies to Sr. 79 only)	Series 79 Plug -L = Hex head jackscrew, non-removable -B = Thru-hole -K = Slotted Head Jackscrew, non-removable Series 79 Receptacle -X = Rear-panel jackpost, .031" thickness -W = Rear-panel jackpost, .041" thickness -V = Rear-panel jackpost, .062" thickness -T = Rear-panel jackpost, .094" thickness Omit = if not Sr. 79 connector
Banding Platform (A Connector)	-1 = without banding platform -2 = with banding platform
Banding Platform (B Connector, applies to Sr. 79 only)	-1 = without banding platform -2 = with banding platform Omit if not Sr. 79 connector
Length	In inches (e.g. -0036 = 36 inches)
Protective Cover	L = supplied less covers Omit = supplied with covers





MISSION-CRITICAL INTERCONNECT SOLUTIONS

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