

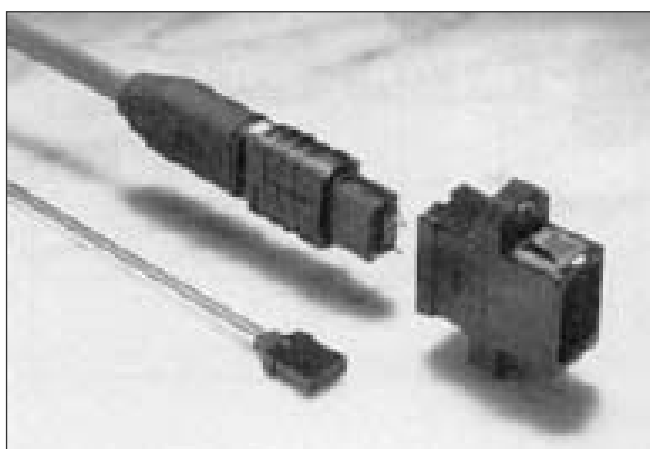


RECOGNIZED WORLD LEADER IN FIBER OPTIC TECHNOLOGY  
 QUALITY FIBER COMPONENTS, EQUIPMENT, & SUPPLIES

## Product Data Sheet

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### MT and MTP® / MPO CABLE ASSEMBLIES



MT and MTP® connectorized ribbon fiber cable assemblies provide reliable high performance interconnects of up to 12 fibers in a minimum footprint. The MT connectors use an NTT compatible ferrule to connect 4 to 12 fibers using bare ribbon or ruggedized ribbon cable. Mating ferrules are aligned using two precision guide pins, pre-installed in a designated male connector. Two holes in the female connector locate the pins providing repeatable core-to-core alignment. Mated fibers are held in place by a spring clip.

The MTP assemblies employ the same MT ferrules in a push-pull keyed connector housing for quick and easy connection using the MTP adapter. Guide pins in the male connector align with holes in the female connector while the adapter holds the connectors in mated position.

Back reflection for single mode assemblies is controlled using an 8° angle polishing system. Fanouts to single fiber leads connectorized with industry-standard SC, FC, and ST® connectors are available to interconnect with the currently installed base of transmitters, receivers, and patch panels.

#### Features & Benefits/Applications

- Provides connectorized interface for ribbon or ribbonized fiber
- Connector alignment made with precision alignment pins
- Fanouts to simplex fiber connectors available
- Low loss interconnect
- Push-pull mating of MTP® for quick connections
- NTT compatible
- Consistent and repeatable performance
- High density interconnects for
  - Telephony central office and local loop
  - Data communications
- Provides interconnect for parallel optical transmitters and receivers

Characteristics	Units	Min.	Avg.	Comments
Insertion Loss:				
9/125µm SM fiber	dB	-	.33	1.0
62.5/125µm fiber	dB	-	.3	1.0
Return Loss				
Single Mode:	dB	-	-	< 60 Angle polish
Temperature Range	°C	-40	+80	40 cycles, 0.05 dB maximum change
Durability	dB	-	-	< 0.2 1000 mate/unmate cycle

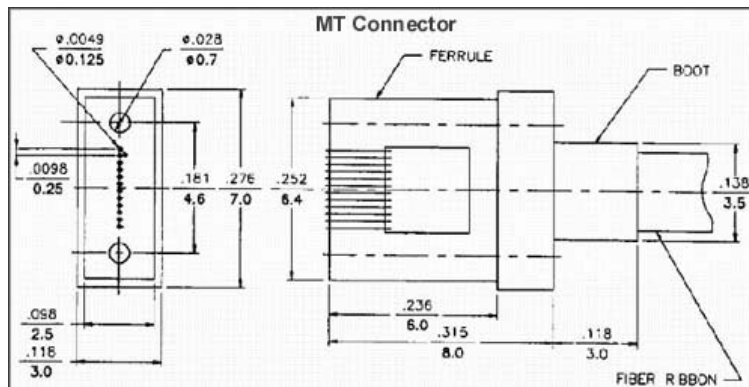
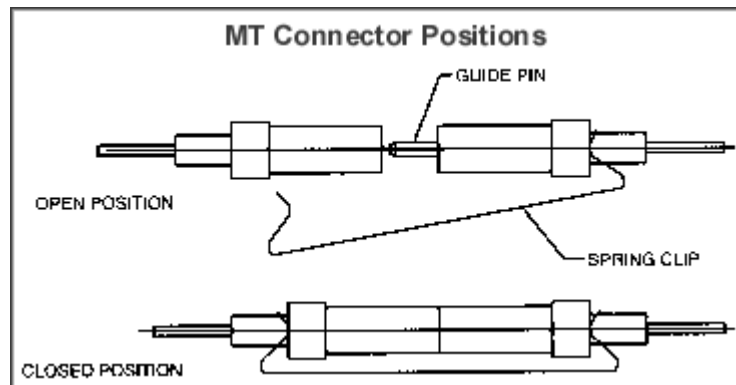
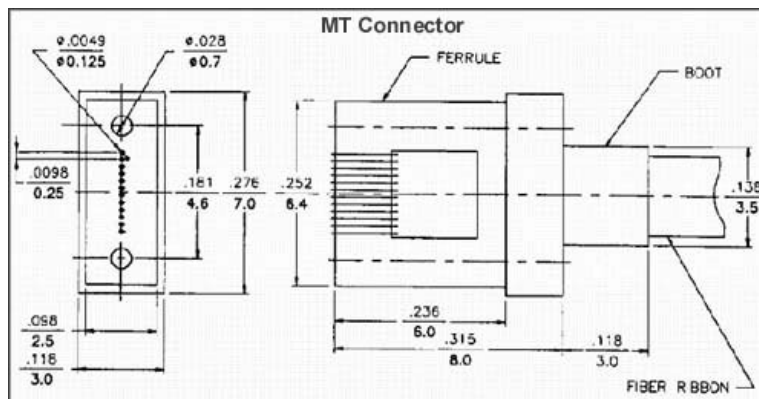


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## Product Data Sheet

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### MT and MTP Cable Assemblies Mechanical Dimensions (All Dimensions in INCHES/mm)

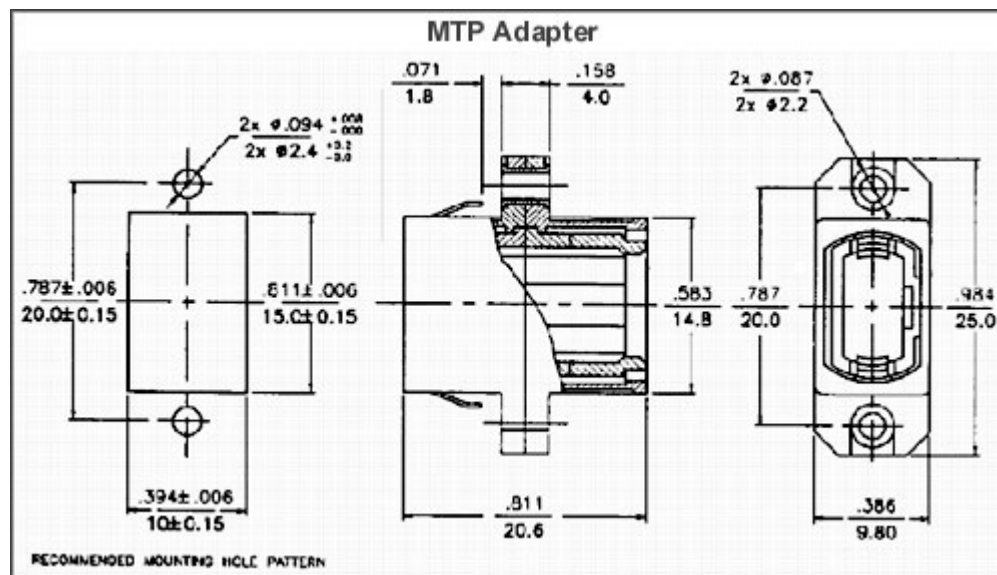
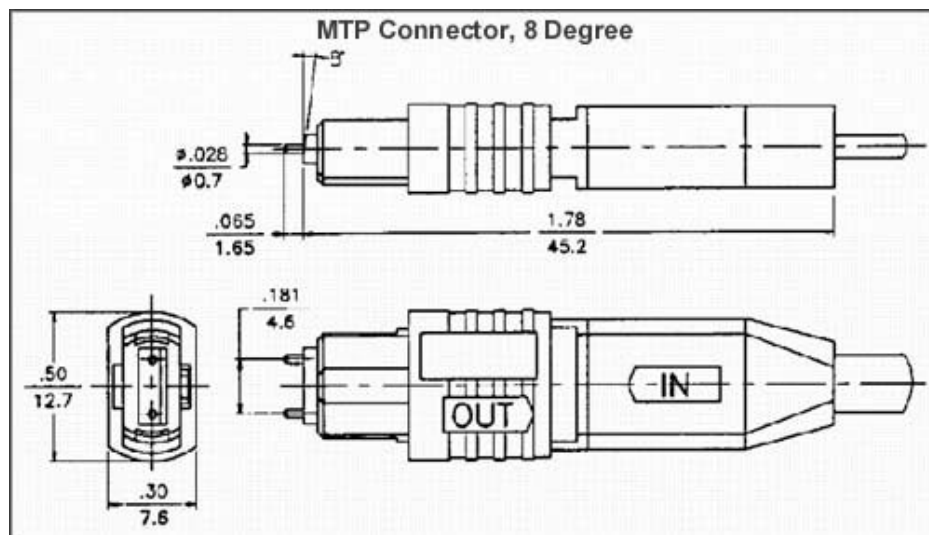


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## Product Data Sheet

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### MTP Cable Assemblies Mechanical Dimensions (All Dimensions in INCHES/mm)

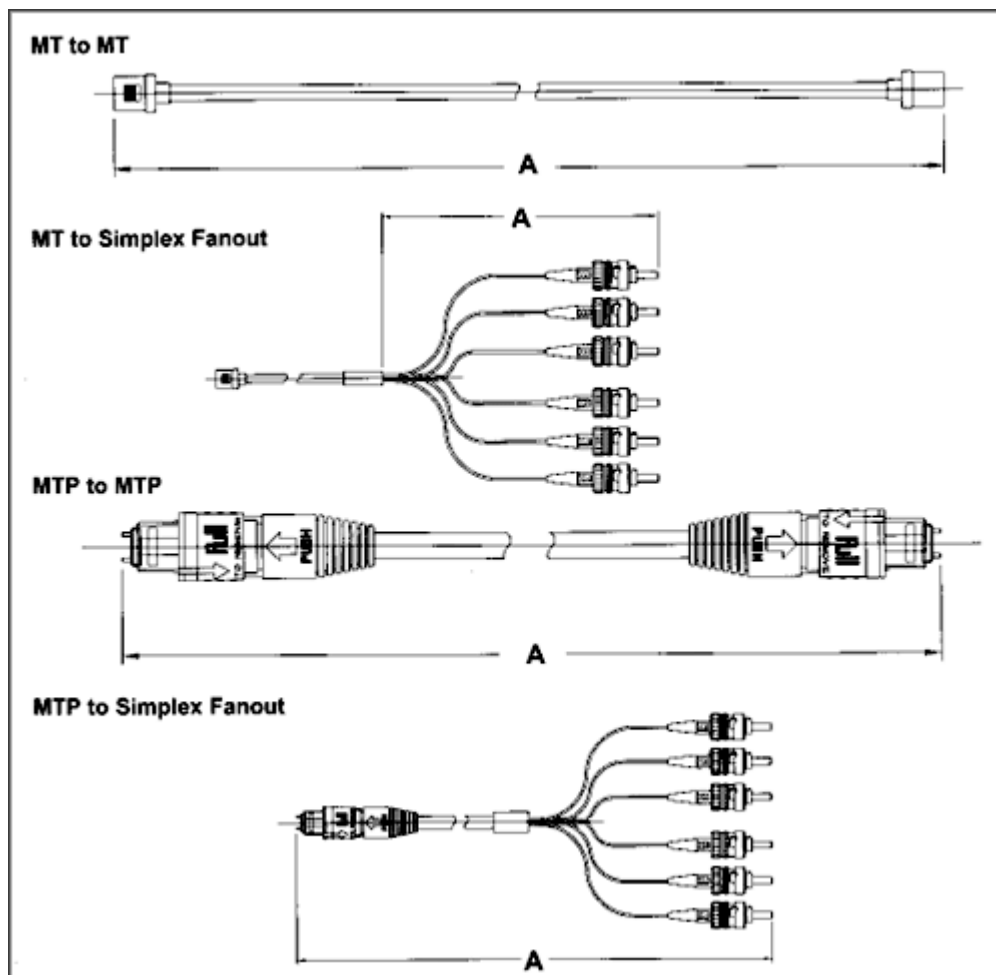


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## Product Data Sheet

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### MT and MTP / MPO Cable Assemblies Construction & Breakout Detail





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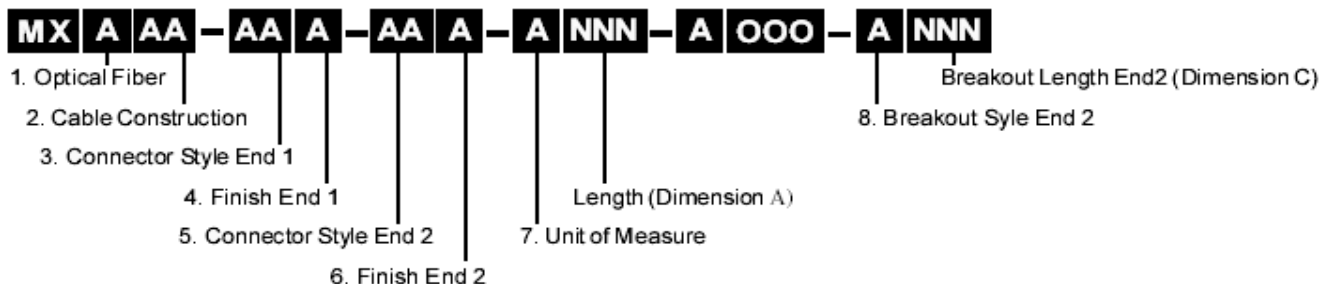
## Product Data Sheet

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### Ordering Information

86181-0000	MTP Adapter	86180-3201	MT Spring Clip (greater than 8 fibers)
86180-3001	MT Spring Clip (8 fibers or less)	86780-0010	MT Spring Fastener Tool

### Part Numbering Guide



#### 1. Optical Fiber

A - Multimode, 50/125µm  
 B - Multimode, 62.5/125µm  
 C - Single mode, 9/125µm

#### 2. Cable Construction

RA - Bare ribbon fiber - 4 fibers  
 RB - Bare ribbon fiber - 8 fibers  
 RC - Bare ribbon fiber - 10 fibers  
 RD - Bare ribbon fiber - 12 fibers  
 RE - Ribbon cable, OFNR, 4 fibers  
 RF - Ribbon cable, OFNR, 8 fibers  
 RG - Ribbon cable, OFNR, 10 fibers  
 RH - Ribbon cable, OFNR, 12 fibers

#### 3. Connector Style End 1

MM - MT compatible male  
 MF - MT compatible female  
 PM - MTP/MPO compatible male  
 PF - MTP/MPO compatible female

#### 4. Finish End 1

M - Ribbon Flat  
 P - Ribbon Angle (SM)

**NOTE:** Please contact inside sales for cable assembly configuration availability, price and minimum order quantity. Not all options are available.

#### 5. Connector Style End 2

AA - ST<sup>®</sup> compatible, polymer coupling nut  
 AB - ST compatible, metal coupling nut  
 AC - ST compatible, 90° boot, metal coupling nut  
 BA - STII<sup>®</sup> compatible  
 DA - FDDI, black housing  
 DB - ESCON<sup>®</sup> compatible  
 EA - FC  
 EB - FC/APC - Standard key  
 EC - FC/APC - Tight fit key  
 FA - SC, standard  
 FB - SC, black housing & boot  
 FC - SC, red housing & boot  
 FD - SC, 90°, black housing & boot  
 FE - SC, 90°, red housing & boot  
 FF - SC/APC, green housing & boot  
 FG - SC Duplex  
 MM - MT compatible male  
 MF - MT compatible female  
 PM - MTP/MPO compatible male  
 PF - MTP/MPO compatible female  
 ZZ - No compatible (For End 2 only)

#### 6. Finish End 2

A - Multimode, Ceramic ferrule, Standard PC<sup>®</sup>  
 B - Multimode, Ceramic ferrule, Enhanced PC  
 C - Single mode, RL > 45 dB, Super PC  
 D - Single mode, RL > 55 dB, Ultra PC  
 E - Single mode, RL > 70 dB, APC  
 F - Multimode, Stainless steel  
 M - Ribbon flat  
 P - Ribbon angle (SM)  
 Z - No connector (End 2 only)

#### 7. Unit of Measure\*

\*Numeric values must be consistent  
 M - Meter  
 C - Centimeters  
 F - Feet  
 I - Inches

Conversion Chart		
From	to	Multiply by
meter	inch	39.37
meter	foot	3.281
centimeter	inch	.394
meter	centimeter	100

#### 8. Breakout Style End 2

A - No breakout  
 R - Ribbon to 900µm