

MTP™ / MPO Multi-Fiber Cable Assemblies

Multimode

Cable Assemblies



- High Density Fiber Management Solution
- 8 or 12 Fibers per connector
- Mates to all MTP™ or MPO connectors
- Precision polished for minimum insertion loss and back reflection
- Push/Pull Connector Mating
- Plenum Rated Cable
- Meets EIA/TIA 568-B.3
- Fanouts to discrete simplex connectors available
- 50 and 62.5 micron core fiber available

Date Modified: April 20, 2001

TS-0975-07
Sheet 1 of 3

Physical

Cable	50 micron	62.5 micron
Minimum Bend Radius	30mm	30mm
Core/Cladding Diameters	50/125μ m	62.5/125μ m
Certification/Flame Rating	USA (UL)=OFNP, Canada (CSA)=OFN/FT6	
Connectors		
Ferrule Material	Glass Filled Resin	
Guide Pins	Surgical Grade Stainless Steel	
Polish	PC, 1 micron (typical) protrusion	
Rematability (per EIA-455-21A)*	200	200

*Connectors cleaned at 5 cycle intervals. 3M recommends inspection and cleaning as necessary before each mating.

Performance*

Connectors (per termination)	50 micron	62.5 micron
Typical Insertion Loss:	0.13-0.31 dB	0.10-0.24 dB
Maximum Insertion Loss:	0.5 dB	0.5 dB
Maximum Return Loss:	-20.0 dB	-20.0 dB
*This applies when mated to another properly cleaned 3M MTP™ / MPO assembly. Opposite ends can be configured for various connectors as needed.		
Standard Cable	850 nm	1300 nm
Cable Attenuation:	≤5.0 dB/km	≤3.0 dB/km
Cable Attenuation @23°C, Typ:	3.5 dB/km	0.75 dB/km
LED Bandwidth-62.5μ core:	≥160 MHz-km	≥500 MHz-km
LED Bandwidth-50μ core:	≥500 MHz-km	≥500 MHz-km
Skew:	≤45 ps/m	≤45 ps/m

Environmental

Operating Temperature Rating: -5°C to +70°C (exceeds EIA/TIA 568-B.3)

Storage Temperature Rating: -40°C to +70°C (exceeds EIA/TIA 568-B.3)

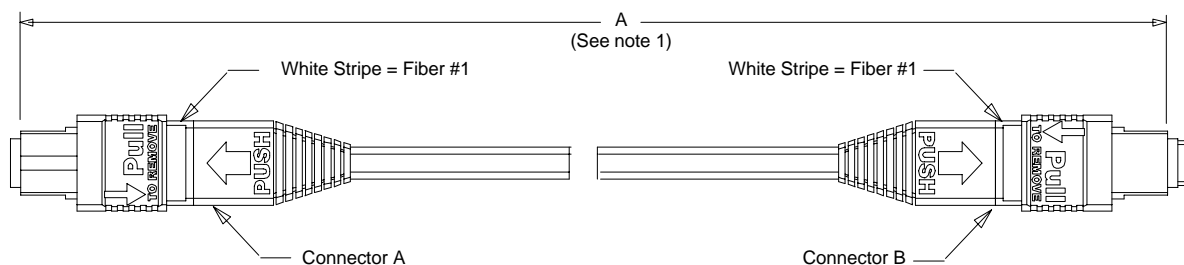
UL File No.: E86982

MTP is a trademark of Conec Ltd / ST is a trademark of Lucent Technologies

3M Interconnect Solutions Division

6801 River Place Blvd.
Austin, TX 78726-9000

For technical, sales or ordering information call
800-225-5373



Length (Dim A) Tolerance (Meters)		
Min	Max	Tol
0.5	20.0	+0.3
20.1	100.0	+2%
100.1	300.0	+1%



mm [Inch]			
Tolerance Unless Noted			
	.0	.00	.000
mm	± .3	± .15	

Note:

1. All dimensions are in "mm" except Dim A is in meters.

[] Dimensions for Reference only

Ordering Information

FXXX XXX-XX XX XXX.XX X.XX X X

Multimode Connector A

MPF = MTP™ Female
(used only with AR & AS 8 fiber cable)
MPM = MTP™ Male
(used only with AR & AS 8 fiber cable)
MTF = MT Female (MT Ferrule Only, No Housing)
MTM = MT Male (MT Ferrule Only, No Housing)

Multimode Connector B

(Option - select from connector A again or select Fanout options listed.)
SCM = SC
STM = ST™
FCM = FC
LCM = LC
CBX = Cut Blunt
(Note: Replace "C" with "D" for duplex SC or LC connectors.)

Special Construction

Y = Yes drawing required
N = No drawing required

Fan Out

F = Fanout, non reinforced tubing
N = No

Dimension B Fanout Section Length

(meters, 0.5 meter max)*
000 = non-fanout
VAR = Variable length fanouts (Requires drawing)

Dimension A Total Assembly Length

(Meters)

Multimode Cable

BA = 62.5/125μm, unjacketed
BB = 62.5/125μm, plenum jacket
BC = 50/125μm, unjacketed
BD = 50/125μm, plenum jacket

Number of Fibers

08 = 8
12 = 12

*Contact your 3M sales representative for special requirements.
MTP is a trademark of Conec Ltd / ST is a trademark of Lucent Technologies

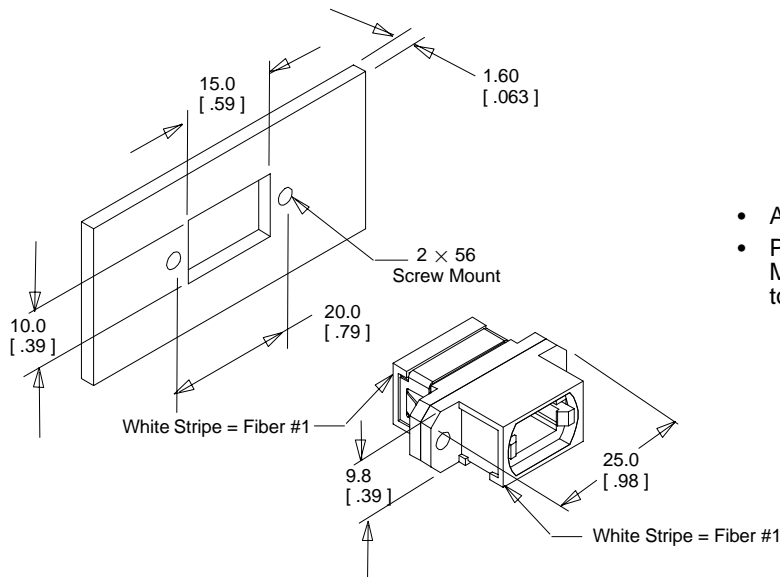
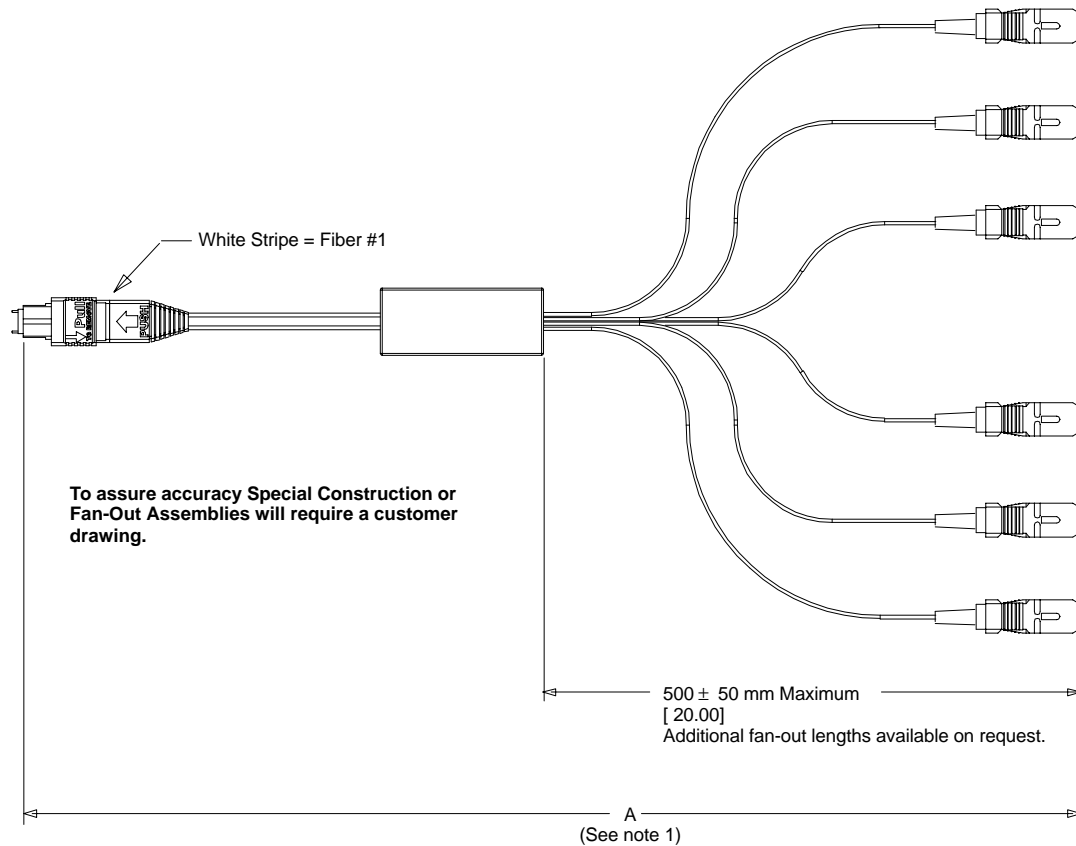
TS-0975-07
Sheet 2 of 3

3M Interconnect Solutions Division

6801 River Place Blvd.
Austin, TX 78726-9000

For technical, sales or ordering information call
800-225-5373

Standard Termination



MTP™ Adapter (Order Separately)

- Accommodates bulkhead mating
- Provides alignment and latching for MTP™ Cable Assemblies to mate together.

MTP™ Adapter Ordering Information FA10-0000

TS-0975-07
Sheet 3 of 3