

# MTP PRO-MTP PRO Pre-Terminated Multicore Cable Assemblies >

**Molex Pre-Terminated Multicore Fiber Optic Cable Assemblies offer premium factory-controlled optical performance on a variety of connectors that enable fast, economical installation.**

Pre-Terminated Cable Assemblies are ideal for mission-critical backbone applications such as Data Center tie cables and low optical loss backbone riser cables.



## FEATURES AND ADVANTAGES

Available in Low Loss OS1a/2, OM3, OM4 and OM5

8 to 144 core fibers available

Polarity and pin reconfiguration in the field

Customized Tail Length and Configuration options available

LSOH, OFNR and OFNP cable jacket

ROHS Compliant

Ideal for: Internal short optical links Front panel/equipment connections, Data center infrastructure, Storage Area Network (SAN)

Part number generator is available on Molex Customer Support Portal: [csp.molex.com](http://csp.molex.com)

## SPECIFICATIONS

### Commercial Standards

TIA/EIA-568.3-D and ISO/IEC 11801

IEC-61754-7 & EIA/TIA-604-5

NFPA 262 (OFNP), IEC 60332 (LSOH), UL1666(OFNR)

Compliant to Directive 2002/95/EC (RoHS) & REACH SvHC EC-60793 EN50399

### Mechanical

**Fiber Type:** OS1a/OS2,G.657A2, OM3, OM4, OM5

**Cable:** Microcable - 8-144

**Jacket Material:** LSOH, OFNR, OFNP, EN50399

**Durability:** 200 Cycles

**Guide Pin Retention:** 3 lbs

### Default Jacket Colors:

**Multimode OM3:** Aqua

**Multimode OM4:** Erika Violet/Aqua

**Multimode OM5:** Lime Green

**Singlemode:** Yellow

### Connectors

MTP Pro® US Conec (IEC-61754-7 & EIA/TIA-604-5) 8F/12F

### Packaging Length:

**PE bag:** < 50m

### LENGTH

Total length means the farthest distance between two ends

Tail Length means the farthest distance between fanout point and connectors

### POLISHING

**Singlemode:** APC

**Multimode:** PC

### For supply to EU market

#### Flame resistance:

LSHF-FR(FRNC): EN 50399 Class Dca;Class Eca

#### Sheath:

Halogen Free, flame resistant thermoplastic sheathing compound acc. to EN 50290-2-27, UV stabilized.

[www.molex.com/products/fiber/patch-cords-and-pigtails/](http://www.molex.com/products/fiber/patch-cords-and-pigtails/)

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## ELECTRICAL/OPTICAL CHARACTERISTICS

### Connector Performance

Connector Mating	IL Average	IL Maximum	Return Loss
MTP Pro Low Loss (MM)	0.10dB	0.35dB	N/A
MTP Pro Low Loss (SM)	0.10dB	0.35dB	>60dB

### Multimode:

Cable performance.

Designation	Core OD (μm)	Cladding OD (μm)	Attenuation @850nm (dB/km)	Attenuation @953nm (dB/km)	Attenuation @1300nm (dB/km)	Over filled launch		Laser effective Modal Bandwidth
						Min.Band @850nm (MHz/km)	Min.Band @1300nm (MHz/km)	Min.Band @850nm (MHz/km)
OM3	50	125 +/-1	≤3.5 max	NA	≤1.5 max	≥ 500	≥ 500	≥ 2000
OM4	50	125 +/-1	≤3.5 max	NA	≤1.5 max	≥ 3500	≥ 500	≥ 4700
OM5	50	125 +/-1	≤3 max	≤2.3 max	≤1.0 max	≥ 3500	≥ 500	≥ 4700

### Singlemode:

(Fiber shall conform to requirements of ITU-T G.652D.)

Cable performance.

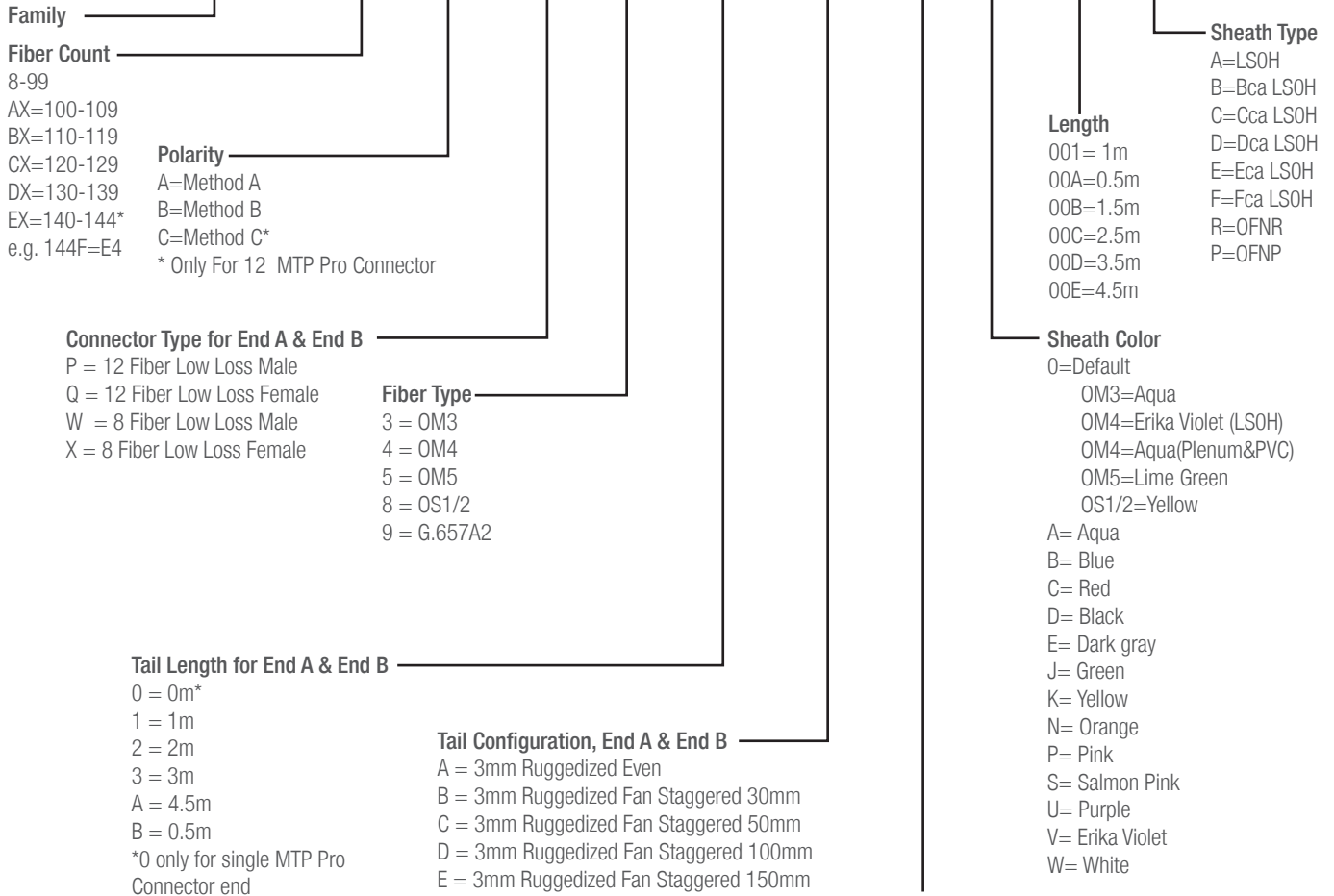
Designation	Core OD (μm)	Cladding OD (μm)	Maximum Attenuation Coefficient (dB/km)
OS1a/2&G.657A2	9	125 +/-1	≤ 0.38 max (1300nm) ≤ 0.22 typ (1550nm)

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## 9 M A A B C C D E E F F G H I I J



**Glands and Pulling Eye**  
 U= No gland, pulling eye at MTP Pro end  
 V= No gland, pulling eye at X end  
 Z= No gland, no pulling eye  
 Y= Gland and pulling eye at MTP Pro end  
 T= Gland at MTP Pro end, pulling eye at X end  
 S= Gland at MTP Pro end, no pulling eye  
 X= Gland at X end, pulling eye at MTP Pro end  
 G= Gland and pulling eye at X end  
 F= Gland at X end, no pulling eye  
 W= Gland at both ends, pulling eye at MTP Pro end  
 B= Gland at both ends, pulling eye at X end  
 C= Gland at both ends, no pulling eye  
 A= Gland at both ends, pulling eye at both ends  
 \*Gland = M20 default, Gland O.D dependent upon cable O.D

*For Example: To order a 48 Core 4x12 MTP Pro Loss Loss Male to Male Connector in OM3 Aqua LSOH Cable with 1m Tails in 3mm Fan Unstaggered, 10 Meter Length, Polarity A , no pulling eye and gland on both end the part number would be 9M48AQQ311AAZ0010A*

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