

MTP-MTP Pre-Terminated Multicore Cable Assemblies

molex

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.



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Features and Advantages

Available in Low Loss OS1/2, OM3 and OM4 or standard Loss available OS1/2, OM1, OM2, OM3 and OM4

12 and 24 cores standard (high core counts up to 144 fibers available)

2mm ruggedized tails and 900µm tails available

Customised Tail Length and Configuration options available

LSOH and OFNP cable jacket

ROHS Compliant

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

Specifications

REFERENCE INFORMATION

Commercial Standards
TIA/EIA-568-C.3 and ISO/IEC 11801
IEC-61754-7 & EIA/TIA-604-5
NFPA 262 (OFNP) or IEC 60332 (LSOH)
Compliant to Directive 2002/95/EC (RoHS) & REACH
SvHC EC-60793 EN50399

MECHANICAL

Fibre Type: OS1/OS2, OM1, OM2,
OM3, OM4, OM5
Cable: Microcable - 8-144
Jacket Material: LSOH, OFNP, EN50399
Durability: 1,000 Cycles
Guide Pin Retention: 3 lbs

Default Jacket Colors:

Multimode OM1: Orange
Multimode OM2: Grey
Multimode OM3: Aqua
Multimode OM4: Erika Violet/Aqua
Multimode OM5: Lime Green
Single Mode: Yellow

Connectors

MTP® US Conec (IEC-61754-7 & EIA/TIA-604-5)
8F/12F/24F

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 stabilised.

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ELECTRICAL/OPTICAL CHARACTERISTICS CONNECTOR PERFORMANCE

Connector Mating	IL Average	IL Maximum	Return Loss
MTP Low Loss (MM)	0.10dB	0.35dB	N/A
MTP Standard Loss (MM)	0.20dB	0.60dB	N/A
MTP Low Loss (SM)	0.10dB	0.35dB	>60dB

Multimode :
Cable performance.

Designation	Core OD (um)	Cladding OD (um)	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)
OM1	62.5	125 +/-1	≤3.5 max	NA	≤1.5 max	≥ 200	≥ 500	NA
OM2	50	125 +/-1	≤3.5 max	NA	≤1.5 max	≥ 500	≥ 500	NA
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	≤1.5 max	≥ 3500	≥ 500	≥ 4700

Single mode: (Fibre shall conform to requirements of ITU-T G.652D.)
Cable performance.

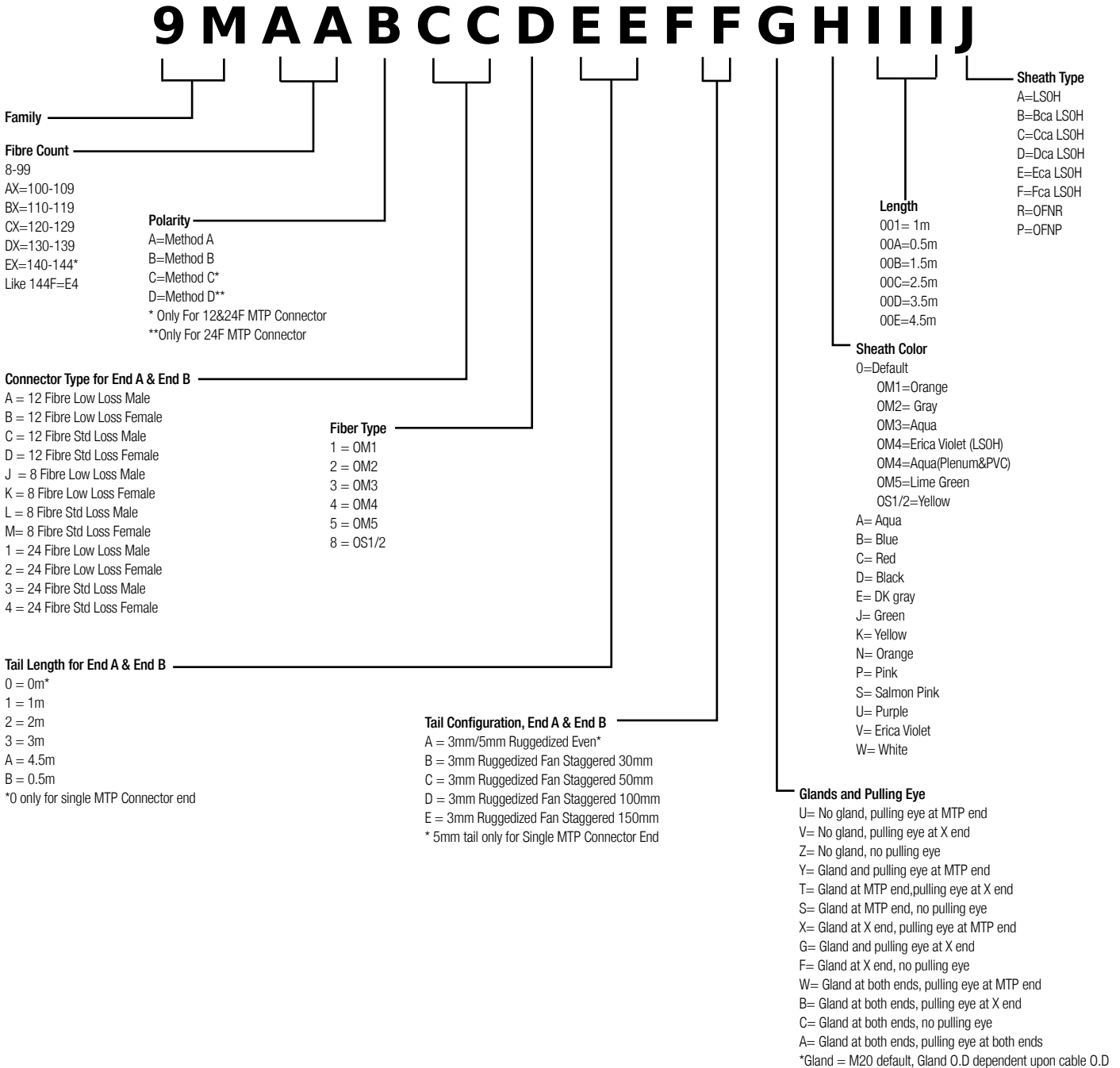
Designation	Core OD (um)	Cladding OD (um)	Maximum Attenuation Coefficient (dB/km)
OS1/2	9	125 +/-1	≤ 0.38 max (1300nm) ≤ 0.22 typ (1550nm)

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Ordering Information

Part No. Matrix - Substitute the correct code number or letter to determine the assembly construction



For Example: To order a 48 Core 4*12 MTP Loss Loss Male to Male Connector in OM3 Aqua LSOH Cable with 1m Tails in 3mm Fan Unstaggered, 10 Metre Length, Polarity A , no pulling eye and Gland on both end. the part number would be 9M48AAA311AAZ0010A

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