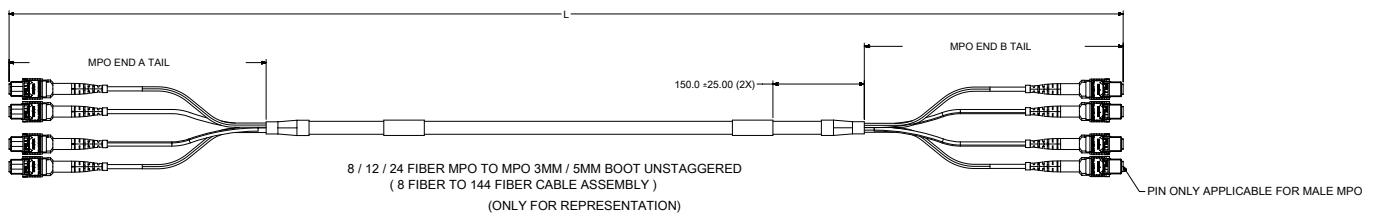


MPO-MPO Pre-Terminated Multicore Cable Assemblies

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 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

Customized Tail Length and Configuration options available

LS0H 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 (LS0H)

Compliant to Directive 2002/95/EC (RoHS) &

REACH SvHC EC-60793 EN50399

MECHANICAL

Fiber Type:

OS1/OS2, OM1, OM2, OM3, OM4, OM5

Cable: Microcable - 8-144

Jacket Material: LS0H, OFNP, EN50399

Durability: 50 Cycles

Guide Pin Retention: 3 lbs

Default Jacket Colors:

Multimode OM1: Orange

Multimode OM2: Gray

Multimode OM3: Aqua

Multimode OM4: Erika Violet/Aqua

Multimode OM5: Lime Green

Singlemode: Yellow

Connectors

MPO (IEC-61754-7 & EIA/TIA-604-5)

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

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SPECIFICATIONS (CONT.)

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.

ELECTRICAL / OPTICAL CHARACTERISTICS

Connector Performance

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

Singlemode: (Fiber shall confirm to requirements of ITU-T G.652D). Cable Performance :

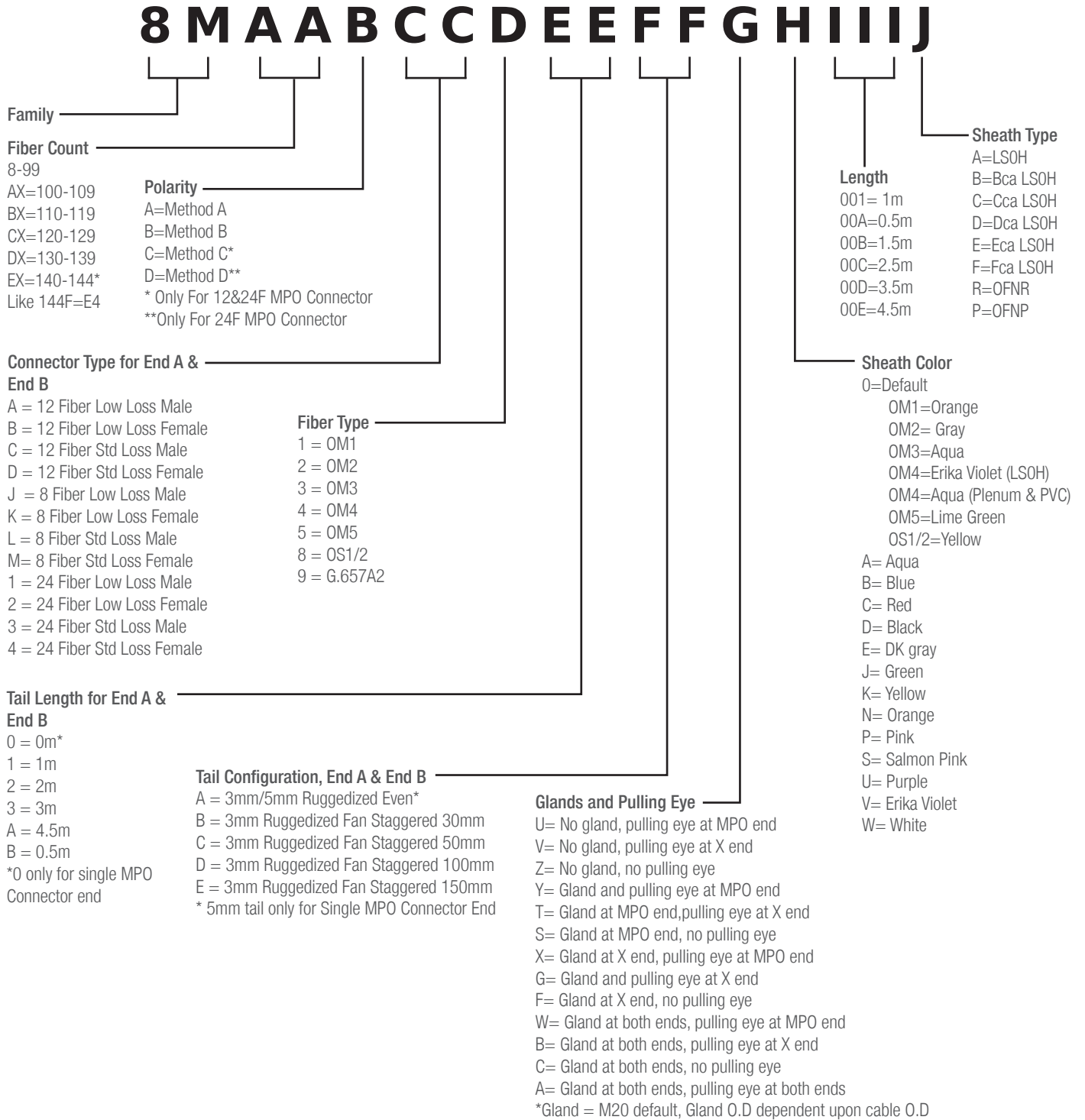
Designation	Core OD (um)	Cladding OD (um)	Maximum Attenuation Coefficient (dB/km)
OS1/2	9	125 +/-1	≤0.38 max (1300nm) ≤0.22 typ (1550nm)

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ORDERING INFORMATION

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



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