MPO Interconnect Cable Assemblies

PANDUIT®

SPECIFICATION SHEET

technical information

MPO Interconnect Cable Assemblies are pre-terminated 8, 12, and 24-fiber cable assemblies that are used in high-density network applications. These interconnect cable assemblies are used with pre-terminated cassettes in main and horizontal cabling distribution areas or to directly connect devices via MPO connectivity to support 40G – 400G parallel optic applications.The QuickNet™ System meets the demands of 10G – 400G Ethernet and high speed Fibre Channel systems. The high-density modular design fits into rack mount fiber cassette enclosures to ensure efficient use of space and rapid network deployment.



application

Allows system designers to tailor configuration and reach to application requirements; to minimize waste, optimize cable management, speed deployment, and improve flexibility and manageability for lower installation costs.

construction

Cable type:	Indoor
Cable jacket ratings:	Optical Fiber Nonconductive Plenum (OFNP) Low Smoke Zero Halogen (LSZH) Euroclass Cca (s1a-d1-a1)
Fiber types:	Singlemode: OS2 9/125µm Multimode: OM3 50/125µm OM4 50/125µm OM5 50/125µm Signature Core™: OM4+ 50/125µm
Connector types; end 'A':	MPO/PanMPO™ Female MPO/PanMPO™ Male Note: Singlemode MPO connectors are angled polish
Connector types; end 'B':	MPO/PanMPO™ Female MPO/PanMPO™ Male Note: Singlemode MPO connectors are angled polish
Fiber count:	8, 12, 24
Jacket color:	OS2: Yellow OM3: Aqua OM4: Aqua OM5: Lime Green OM4+: Aqua

physical properties

Cable outside diameter (OD):	8F – 3.0mm 12F – 3.0mm 24F – 3.6mm
Minimum bend radius:	Under load: 20 x cable OD Static: 10 x cable OD
Cable tensile strength:	220N
Cable compressive load:	35N/cm
Cable flex:	25 cycles
Cable twist:	10 cycles
Connector durability:	500 mating cycles

optical properties

Maximum cable attenuation:	Multimode:	3.0dB/km at 850nm 1.0dB/km at 1300nm
	Singlemode:	1.0dB/km at 1310/1550nm
Maximum connector insertion loss:	Multimode:	0.50dB (Standard IL) 0.35dB (Optimized IL) 0.25dB (Ultra IL)
	Singlemode:	0.75dB
Minimum connector return loss:	Multimode:	OM3: 26dB OM4: 26dB OM5: 26dB OM4+: 30dB
	Singlemode:	OS2: 55dB

environmental properties

Storage and shipping temperature:	-40°C to 70°C -40°F to 158°F
Installation temperature:	0°C to 40°C 32°F to 104°F
Operating temperature:	0°C to 70°C 32°F to 158°F

standards

Meets or exceeds:	ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIA/EIA-568-C.1 RoHS Compliant

MPO Interconnect Cable Assemblies

part number configurator

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
EXAMPLE	F	R	X	T	P	7	7	Y	0	0	1	F	0	3	0

1 – Fiber
F = Fiber

2 – Cable Type
R = Indoor, round

3 – Fiber Type
9 = OS2 Singlemode 9/125µm
X = OM3 50/125µm
Z = OM4 50/125µm
W = OM5 50/125µm
S = OM4+ 50/125µm

4 – Fiber Count
8 = 8 fibers
T = 12 fibers
U = 24 fibers

5 – Jacket Type
P = Plenum (OFNP)
L = LSZH
C = LSZH, Euroclass Cca (s1a-d1-a1)

6 – Connector Type (End A)
G = MPO-8 Female
H = MPO-8 Male
5 = MPO Female
6 = MPO Male
7 = PanMPO™ Female
8 = PanMPO™ Male
E = MPO-24 Female
F = MPO-24 Male

7 – Connector Type (End B)
G = MPO-8 Female
H = MPO-8 Male
5 = MPO Female
6 = MPO Male
7 = PanMPO™ Female
8 = PanMPO™ Male
E = MPO-24 Female
F = MPO-24 Male

8 – Construction/Performance
A = Method A, Standard IL (singlemode)
B = Method B, Standard IL (singlemode)
X = Method A, Optimized IL
Y = Method B, Optimized IL
K = Method A, Ultra IL
L = Method B, Ultra IL

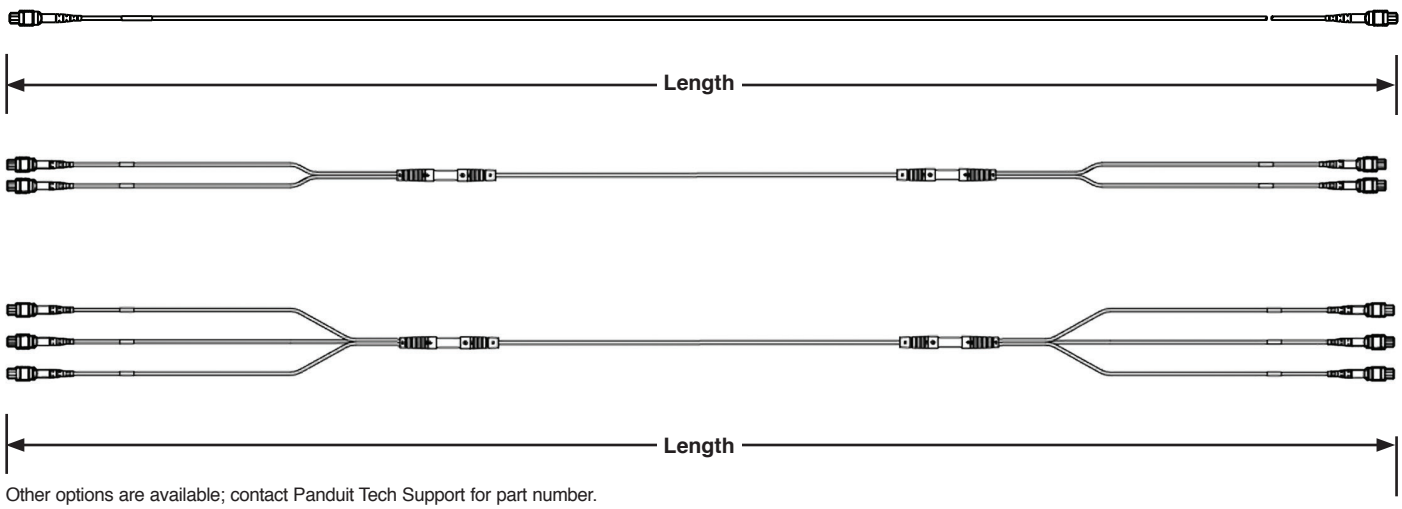
9 – 11 – Serial
See Table Below

12 – Unit of Measure
F = Feet
M = Meters

13, 14, 15 – Cable Assembly Length
1 – 300 Feet
0.5 – 100 Meters

Serial	Breakout – End A	Breakout – End A
001	None	None
002	24-inch (60 cm)	24-inch (60 cm)
003	None	24-inch (60 cm)

QuickNet™ MPO Interconnect Round Cable Assembly Detail



Other options are available; contact Panduit Tech Support for part number.

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