

Base 8 MPO Interconnect Cable Assemblies

technical information

MPO Interconnect Cable Assemblies are pre-terminated in 8, 16, and 24-fiber constructions that are used in high-density network applications. These interconnects are used with pre-terminated cassettes or FAP's in main and horizontal cabling distribution areas or to directly connect devices via MPO connectivity to support 40G – 400G parallel optic applications. All Interconnect cable assemblies are factory terminated and tested to deliver verified optical performance and reliability to support all 8-Fiber applications including SR4, DR4, SR4.2, and speeds from 10G to 800G and beyond.



applications

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 B2ca
Fiber types:	Singlemode: OS2 9/125µm Multimode: 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, 16, 24
Jacket color:	OS2: Yellow OM4: Aqua OM5: Lime Green OM4+: Aqua

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: (Per Mated Pair)	Multimode: 0.35dB (Optimized IL) 0.25dB (Ultra IL) Singlemode: 0.75dB (Standard IL) 0.50dB (Optimized IL)
Minimum connector return loss:	Multimode: OM4: 26dB OM5: 26dB OM4+: 30dB Singlemode: OS2: 55dB

physical properties

Cable outside diameter (OD):	8F–3.0mm 16F–3.8mm 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

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
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part number configurator

Example: FRZ8PJY011F030 - OM4 8-Fiber Interconnect, Plenum, PanMPO-8 Female to PanMPO-8 Female, Polarity B, Optimized IL, 30 feet.

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	F	R	Z	8	P	J	J	Y	0	1	1	F	0	3	0

1 – Fiber

F = Fiber

2 – Cable Type

R = Indoor, round

3 – Fiber Type

9 = OS2 Singlemode 9/125µm
Z = OM4 50/125µm
W = OM5 50/125µm
S = OM4+ 50/125µm

4 – Fiber Count

8 = 8 fibers
C = 16 Fibers
U = 24 fibers

5 – Jacket Type

P = Plenum (OFNP)
L = LSZH
B = LSZH Euroclass B2ca

6 & 7 – Connector Types

G = MPO-8 Female (MM)
H = MPO-8 Male (MM)
J = PanMPO-8 Female (MM)
K = PanMPO-8 Male (MM)
X = MPO-8 Female APC (SM)
Y = MPO-8 Male APC (SM)
V = PanMPO-8 Female APC (SM)
W = PanMPO-8 Male APC (SM)
U = Underterminated (End B only)

8 – Construction/Performance

A = Method A, Standard IL (SM)
B = Method B, Standard IL (SM)
X = Method A, Optimized IL
Y = Method B, Optimized IL
K = Method A, Ultra IL (MM)
L = Method B, Ultra IL (MM)

9 – 11 – Serial

See Table Below

12 – Unit of Measure

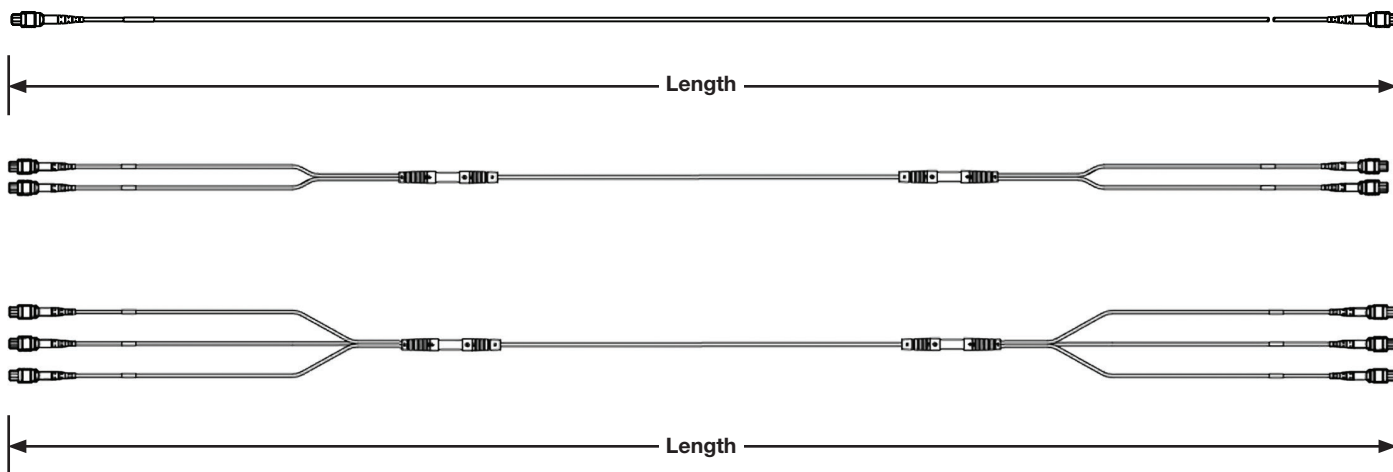
F = Feet
M = Meters

13, 14, 15 – Cable Assembly Length

1 – 300 Feet
0.5 – 100 Meters

Serial	Breakout – End A	Breakout – End B
011	None	None
012	24-inch (60 cm)	24-inch (60 cm)
013	None	24-inch (60 cm)

QuickNet™ MPO Interconnect Round Cable Assembly Detail



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