QuickNet™ Small Diameter Trunk Cable Assemblies OFNP and LSZH

PANDUIT®
SPECIFICATION SHEET

technical information

Small Diameter Trunk Cable Assemblies allow for rapid deployment of high-density permanent links in a single assembly for data center applications requiring quick infrastructure deployment, such as main, horizontal, and zone distribution areas. These trunk cable assemblies optimize cable routing requirements to ensure efficient use of pathway space and significantly reduce installation time and cost. QuickNet™ Small Diameter Trunk Cable Assemblies are built with modular MPO connectivity and provide compatibility, flexibility and system performance in all permanent link applications. All small diameter trunk cable assemblies are factory terminated and tested to deliver verified optical performance and reliability for improved network integrity. 10Gig versions provide 10 Gb/s network performance up to 300 meters for OM3 and up to 550 meters for OM4 per IEEE 802.3ae 10 GbE standard while maintaining compatibility with legacy systems.

application

Allows system designers to tailor configuration, reach and breakout construction to application requirements; to minimize waste, optimize cable management, speed deployment, improve flexibility and manageability for lower installation costs. Small diameter trunk cable assemblies use 30 – 40% less space which is ideal for high cable density applications.

construction

Cable type:	Indoor Small Diameter Trunk	
Cable jacket ratings:	Plenum (OFNP) NFPA 262 Low Smoke Zero Halogen (LSZH) IEC 60332-1 and IEC 60332-3C	
Fiber types:	Singlemode: Multimode:	OS1/OS2 9/125µm OM3 50/125µm OM4 50/125µm
Connector types end 'A':	MPO Female or MPO Male, LC Duplex (12F only)	
Connector types end 'B':	MPO Female or MPO Male, LC Duplex (12F only)	
Fiber count:	12, 24, and 48	
Jacket color:	OS1/OS2 OM3 OM4	Yellow Aqua Aqua

physical properties

Cable outside diameter (OD):	12-fiber: 24-fiber: 48-fiber:	4.5mm 5.4mm 6.1mm
Cable weight (kg/km) (lb/kft):	12-fiber LSZH: 22.2kg/km (14.9 lb./kft) 24-fiber LSZH: 29.7kg/km (19.9 lb./kft) 12-fiber Plenum: 23.6kg/km (15.9 lb./kft) 24-fiber Plenum: 31.7kg/km (21.3 lb./kft)	
Minimum bend radius:	Under load: Static:	20 x Cable OD 10 x Cable OD
Cable tensile strength:	12-fiber 440N; 24-fiber, 48-fiber 660N	
Cable compressive load:	10 N/mm	
Connector cable retention:	50N	
Connector durability:	500 mating cycles*	
Breakout outside diameter:	3.0mm	
Transition outside diameter:	12-fiber: 24-fiber: 48-fiber:	10mm 10mm 12mm
Pulling eye diameter:	12-fiber: 24-fiber: 48-fiber:	19mm 23mm 29mm
Breakout length:	1m	

*With proper cleaning and inspecting.

optical properties

Maximum cable attenuation:	Singlemode: Multimode: 	0.4dB/km at 1310nm 0.3dB/km at 1550nm 3.0dB/km at 850nm 1.5dB/km at 1300nm
Maximum connector insertion loss:	Standard Singlemode MPO: Standard Multimode MPO: Optimized Multimode MPO: Standard Singlemode LC: Standard Multimode LC: Optimized Multimode LC:	0.75dB 0.50dB 0.35dB 0.35dB 0.25dB 0.15dB
Minimum connector return loss:	Singlemode: Multimode:	55dB MPO 30dB LC 26dB

environmental properties

Operating temperature:	-20°C to + 70°C (-4°F to 158°F)
Storage and shipping temperature:	-40°C to +70°C (-40°F to 158°F)
Installation temperature:	-10°C to + 60°C (14°F to 140°F)

standards

Meets or exceeds:	ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIC/EIA-568-C.1, GR-409-CORE, ICEA S-83-596, ITU-T G.652.D , ITU-T G.657.A1, RoHS Complaint

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part number

Example: FXUYP5E5EAAM030 = OM3, 24-fiber, indoor small diameter trunk cable, plenum, MPO female to MPO female, polarity A, pulling eye, 30 meters.

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
EXAMPLE	F	X	U	Y	P	5	E	5	E	A	A	M	0	3	0

1 – Fiber
F = Fiber

2 – Fiber Type
9 = OS1/OS2 9/125µm
X = OM3 50/125µm
Z = OM4 50/125µm

3 – Fiber Count
T = 12-fiber
U = 24-fiber
W = 48-fiber

4 – Cable Type
Y = Indoor small diameter trunk cable

5 – Jacket Type
P = Plenum (OFNP)
L = Low Smoke Zero Halogen (LSZH)

6 – Connector Type (end A)
5 = MPO female connector
6 = MPO male connector
L = LC duplex (12 and 24 fiber only)

7 – Connector Variant
E = (MPO)
2 = 2.0mm Upjacket (LC)
5 = 39" Breakout with HD Flex™ Transition

8 – Connector Type (end B)
5 = MPO female connector
6 = MPO male connector
L = LC Duplex (12 and 24 fiber only)

9 – Connector Variant
E = 1m Breakout (MPO)
2 = 2.0mm Upjacket (LC)
5 = 39" Breakout with HD Flex™ Transition

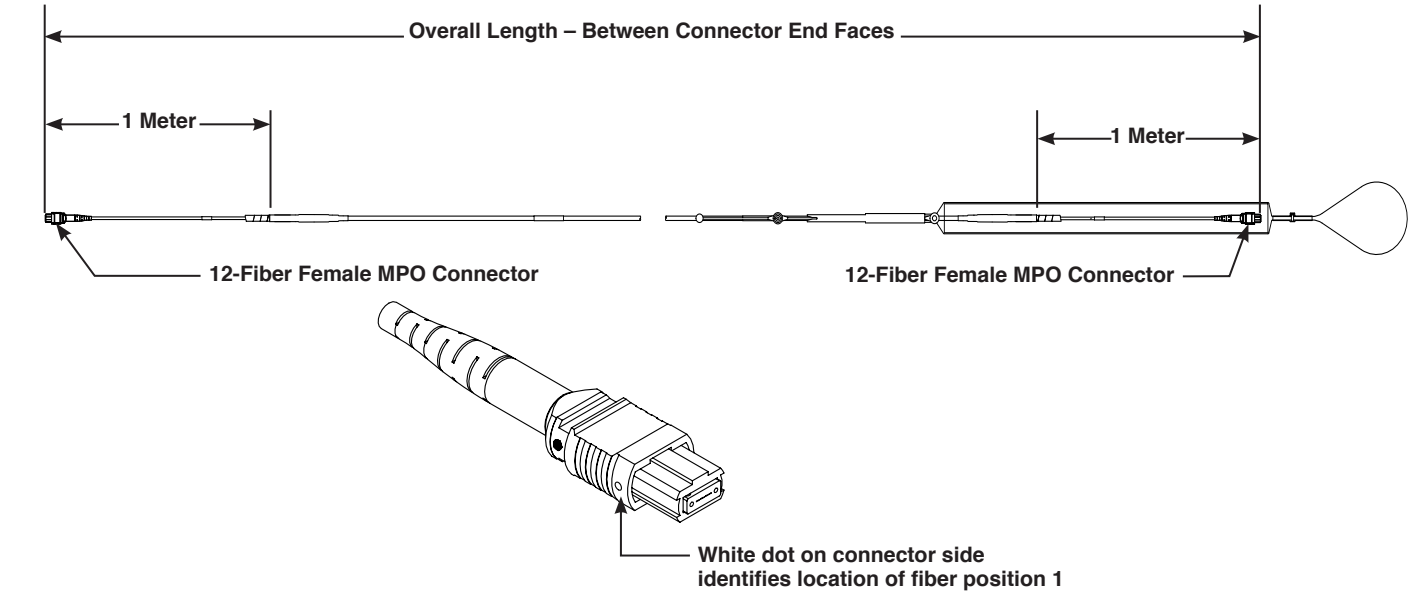
10–Construction/Performance
A = Polarity Method A, Standard IL (MPO to MPO)
B = Polarity Method B, Standard IL (MPO to MPO)
O = Optimized Performance/Std. Polarity (MPO to LC or LC to LC)
S = Std. Performance/Std. Polarity (MPO to LC or LC to LC)
X = Polarity Method A, Optimized IL (MPO to MPO)
Y = Polarity Method B, Optimized IL (MPO to MPO)

11 – Other
A = Pulling eye end A
N = No pulling eye (lengths less than 20 meters/60 feet only)

12 – Unit of Length
M = Meters
F = Feet

13, 14, 15 – Cable Assembly Length
M = 005 – 100
F = 015 – 300

small diameter trunk cable assembly detail



Please contact Panduit Customer Service for information on additional part number options.

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