QuickNet™ Plenum Trunk Cable Assemblies

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 at speeds of 10/25/40/50/100G and beyond.

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:	Optical Fiber Non-conductive Plenum (OFNP)
Fiber types:	Singlemode: OS2 9/125µm Multimode: OM3 50/125µm OM4 50/125µm OM4+ 50/125µm
Connector types end 'A':	12F-MPO Female or 12F-MPO Male, LC Duplex 12F-PanMPO Female or 12F-PanMPO Male, LC Duplex
Connector types end 'B':	12F-MPO Female or 12F-MPO Male, LC Duplex 12F-PanMPO Female or 12F-PanMPO Male, LC Duplex
Fiber count:	12, 24, 48, 72, 96, and 144
Jacket color:	OS2 Yellow OM3 Aqua OM4 Aqua OM4+ Aqua

physical properties

Cable outside diameter (OD):	12-fiber: 4.5mm 72-fiber: 6.6mm 24-fiber: 5.4mm 96-fiber: 8.1mm 48-fiber: 6.2mm 144-fiber: 9.5mm
Minimum bend radius:	Under load: 20 x Cable OD Static: 10 x Cable OD
Cable tensile strength:	440N (100lb.)
Cable compressive load:	100 N/mm
Connector durability:	500 mating cycles*
Breakout outside diameter:	3.0mm
Breakout length:	1m

*With proper cleaning and inspecting.

optical properties

Maximum cable attenuation:	Singlemode: 0.4dB/km at 1310nm 0.3dB/km at 1550nm Multimode: 3.0dB/km at 850nm 1.0dB/km at 1300nm
Maximum connector Insertion loss:	Standard Singlemode MPO: 0.75dB Standard Multimode MPO: 0.50dB Optimized Multimode MPO: 0.35dB Ultra Multimode MPO: 0.25dB Standard Singlemode LC: 0.35dB Standard Multimode LC: 0.25dB Optimized Multimode LC: 0.15dB Ultra Multimode LC: 0.10dB
Minimum connector return loss:	Singlemode: 55dB Multimode: 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 RoHS Complaint

QuickNet™ Plenum Trunk Cable Assemblies

part number

Example: F9UYP5E5EAAF030 = OS2, 24-Fiber, Indoor Small Diameter Trunk Cable, Plenum, MPO Female To MPO Female, Method A, Standard IL, Pulling Eye, 30 Feet.

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

1 – Fiber
- F = Fiber

2 – Fiber Type
- 9 = OS2 9/125µm
- X = OM3 50/125µm
- Z = OM4 50/125µm
- S = OM4+ 50/125µm (Ultra IL, Only)

3 – Fiber Count
- T =12 fiber
- U =24 fiber
- W =48 fiber
- X =72 fiber
- Y =96 fiber
- A =144 fiber

4 – Cable Type
- Y = Indoor small diameter trunk cable

5 – Jacket Type
- P =Plenum (OFNP)

6 – Connector Type (End A)
- 5 = MPO Female (Singlemode)
- 6 = MPO Male (Singlemode)
- 7 = PanMPO Female (Multimode)
- 8 = PanMPO Male (Multimode)
- L = LC Duplex (12, 24, 48 Fiber Only)

7 – Connector Variant
- E = 1m Breakout (MPO)
- 2 = 2.0mm Upjacket (LC)
- 5 = 39" Breakout with HD Flex™ Transition (MPO) 12F-48F

8 – Connector Type (End A)
- 5 = MPO Female (Singlemode)
- 6 = MPO Male (Singlemode)
- 7 = PanMPO Female (Multimode)
- 8 = PanMPO Male (Multimode)
- L = LC Duplex (12, 24, 48 Fiber Only)

9 – Connector Variant
- E = 1m Breakout (MPO)
- 2 = 2.0mm upjacket (LC)
- 5 = 1m Breakout with HD Flex™ Transition (MPO) 12F-48F

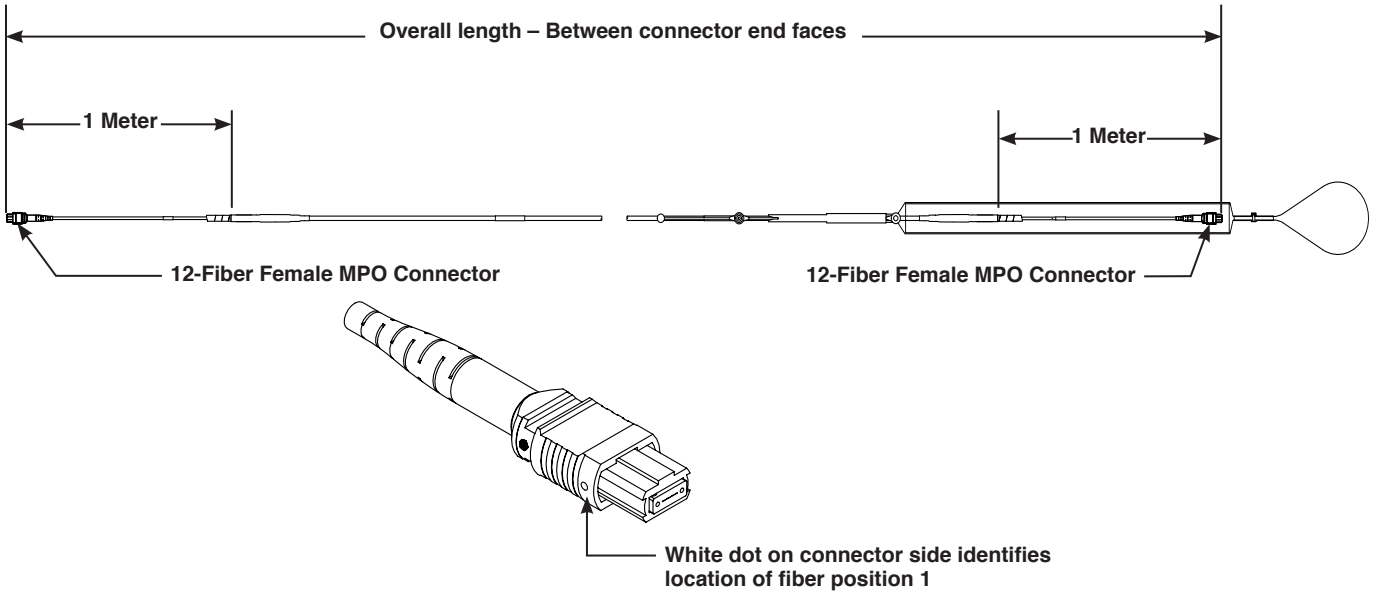
10 – Construction/Performance
- A= Method A, Standard IL (MPO to MPO)
- B= Method B, Standard IL (MPO to MPO)
- O= Optimized IL (MPO to LC or LC to LC)
- S= Standard IL (MPO to LC or LC to LC)
- X= Method A, Optimized IL (MPO to MPO)
- Y= Method B, Optimized IL (MPO to MPO)
- K= Method A, Ultra IL (MPO to MPO)*
- L= Method B, Ultra IL (MPO to MPO)*
- N= Ultra IL (MPO to LC or LC to LC)*
- *SigCore Only

11 – Other
- A = Pulling Eye End A
- N = No Pulling Eye

12 – Unit of Length
- F = Feet

13, 14, 15 – Cable Assembly Length
- 015 - 999 Feet

small diameter trunk cable assembly detail



Please contact Panduit customer service for information on additional part number options.

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