Plenum Trunk Cable Assemblies

PANDUIT®
SPECIFICATION SHEET

specifications

Trunk Cable Assemblies shall 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 shall optimize cable routing requirements to ensure efficient use of pathway space and significantly reduce installation time and cost. QuickNet™ Trunk Cable Assemblies are built with modular MPO connectivity and provide compatibility, flexibility and system performance in all permanent link applications. All 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.

applications

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 rating:	Optical Fiber Non-conductive Plenum (OFNP)	
Fiber types:	Singlemode:	OS2 9/125µm
	Multimode:	OM3 50/125µm OM4 50/125µm OM5 50/125um
Connector types end 'A':	12-fiber – MPO Female or Male, 12-fiber – PanMPO™ Female or Male	
Connector types end 'B':	12-fiber – MPO Female or Male, 12-fiber – PanMPO™ Female or Male, Pigtail	
Fiber count:	12, 24, 48, 72, 96, and 144	
Jacket color:	OS2 OM3 OM4 OM5	Yellow Aqua Aqua Lime

physical properties

Cable outside diameter (OD):	12-fiber: 4.5mm 24-fiber: 5.4mm 48-fiber: 5.6mm	72-fiber: 6.6mm 96-fiber: 8.1mm 144-fiber: 9.4mm
Cable Construction:	250µm Distribution Cable	
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 72-fiber, 96-fiber and 144-fiber 1335N	
Cable compressive load:	100 N/mm	
Connector durability:	500 mating cycles*	
Breakout outside diameter:	2.0mm	
Breakout length:	1m	

*With proper cleaning and inspecting.

optical properties

Maximum cable attenuation:	Singlemode:	0.34dB/km at 1310nm 0.22dB/km at 1550nm
	Multimode:	3.0dB/km at 850nm 1.0dB/km at 1300nm
Maximum connector insertion loss:	Standard Singlemode MPO: Optimized Singlemode MPO: Standard Multimode MPO: Optimized Multimode MPO: Ultra Multimode MPO:	0.75dB 0.35dB 0.50dB 0.35dB 0.25dB
Maximum 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 1180, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIC/EIA-568-C.1, GR-409-CORE, ITU-T G.652.D , ITU-T G.657.A, ICEA S-83-596 RoHS Compliant

Plenum Trunk Cable Assemblies

part number configurator

Example: FYXTP77Y001F030 = OM3 12-Fiber HD Flex™ Indoor Small Diameter Trunk, Plenum, 1x12F PanMPO Female with 1m breakout to 1x12F PanMPO Female with 1m breakout, Polarity B, Optimized IL, Pulling Eye End A, 30 feet.

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

1 – Fiber
F = Fiber

2 – Cable Type
Y = Indoor small diameter trunk cable

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

4 – Fiber Count
T = 12 fibers
U = 24 fibers
W = 48 fibers
X = 72 fibers
Y = 96 fibers
A = 144 fibers

5 – Jacket Type
P = Plenum

6 – Connector Type (End A)
5 = 12-fiber MPO Female
6 = 12-fiber MPO Male
7 = 12-fiber PanMPO Female
8 = 12-fiber PanMPO Male

7 – Connector Type (End B)
5 = 12-fiber MPO Female
6 = 12-fiber MPO Male
7 = 12-fiber PanMPO Female
8 = 12-fiber PanMPO Male
U = Pigtail

8 – Construction/Performance
A = Method A, Standard IL
B = Method B, Standard IL
X = Method A, Optimized IL
Y = Method B, Optimized IL
K = Method A, Ultra IL (12 – 48 fibers)
L = Method B, Ultra IL (12 – 48 fibers)

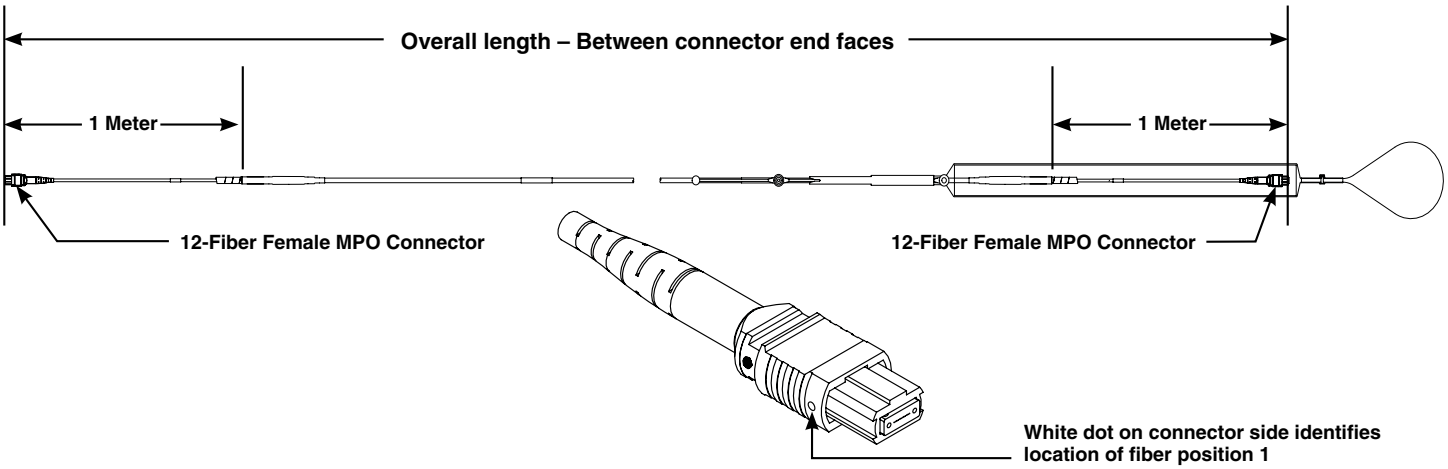
9 – 11 – Serial

12 – Unit of Measure
F = Feet
M = Meters

13, 14, 15 – Cable Assembly Length
015 – 999 Feet
005 – 300 Meters

Serial	Transition	Pulling Eye
001	HD Flex™	Yes
002	HD Flex™	No
003	HD Flex™ to pigtail	Yes
005	Standard	Yes
006	Standard	No
007	Standard to pigtail	Yes

small diameter trunk cable assembly detail



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

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