Plenum Trunk Cable Assemblies

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 ratings:	Optical Fiber Non-conductive Plenum (OFNP)
Fiber types:	Singlemode: OS2 9/125µm
	Multimode: OM3 50/125µm OM4 50/125µm OM5 50/125µm
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 Yellow OM3 Aqua OM4 Aqua OM5 Lime

optical properties

Maximum cable attenuation:	Multimode:	0.4dB/km at 1310nm 0.3dB/km at 1550nm
	Singlemode:	3.0dB/km at 850nm 1.0dB/km at 1300nm
Maximum connector insertion loss:	Standard Singlemode MPO:	0.75dB
	Optimized Multimode MPO:	0.35dB
	Ultra Multimode MPO:	0.25dB
Maximum connector return loss:	Singlemode:	55dB
	Multimode:	MPO 30dB LC 26dB

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 × Cable OD 10 × Cable OD
Cable tensile strength:	440 N (100 lbs.)	
Cable compressive load:	100 N/mm	
Connector durability:	500 mating cycles*	
Breakout outside diameter:	2.0mm	
Breakout length:	1 m	

*With proper cleaning and inspecting.

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

GR-20:	ISO/IEC 1180, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIC/EIA-568-C.1, GR-409-CORE, 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, 1×12F PanMPO Female with 1m breakout to 1×12F 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 (singlemode)
B = Method B, Standard IL (singlemode)
X = Method A, Optimized IL
Y = Method B, Optimized IL
K = Method A, Ultra IL (12 – 48-fibers)
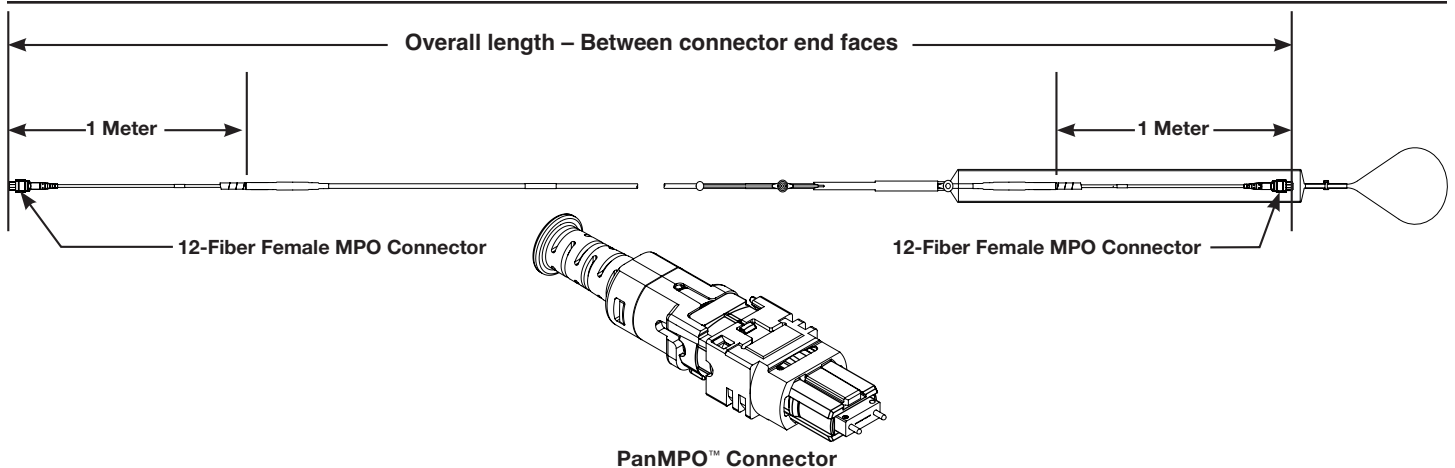L = Method B, Ultra IL (12 – 48-fibers)

9 – 11 – Serial

12 – Unit of Measure
F = Feet
M = Meters

13, 14, 15 – Cable Assembly Length
015 – 999 Feet
005 – 300 Meters
* All part numbers are 15 characters

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
008	Standard to pigtail	No

small diameter trunk cable assembly detail

Overall length – Between connector end faces

1 Meter

1 Meter

12-Fiber Female MPO Connector

12-Fiber Female MPO Connector

PanMPO™ Connector

Dimensions are in inches. [Dimensions in **brackets** are metric].

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