Low Smoke Zero Halogen Trunk Cable Assemblies

PANDUIT®

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.

constructions

Cable type:	Indoor Trunk
Cable jacket rating:	Low Smoke Zero Halogen (LSZH)
Fiber types:	Singlemode: OS2 9/125µm
	Multimode: OM3 50/125µm OM4 50/125µm
Connector types end 'A':	12-fiber – MPO Female or Male, 12fiber – 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

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: Standard Multimode MPO: Optimized Multimode MPO: Ultra Multimode MPO:	0.75dB 0.50dB 0.35dB 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: 6.1mm	72-fiber: 9.4mm 96-fiber: 9.4mm 144-fiber: 11mm
Cable Construction:	12-fiber - 250µm Distribution Cable 24-fiber - 250µm Distribution Cable 48-fiber - 250µm Distribution Cable 72-fiber - Ribbon Distribution Cable 96-fiber - Ribbon Distribution Cable 144-fiber - Ribbon Distribution Cable	
Minimum bend radius:	Under load: 20 x Cable OD Static: 10 x Cable OD	
Cable tensile strength:	12-fiber, 24-fiber and 48-fiber 440N (100 lbs.)	
	72-fiber, 96-fiber and 144-fiber 1335N (300 lbs.)	
Cable compressive load:	100 N/mm	
Connector durability:	500 mating cycles*	
Breakout outside diameter:	3.0mm	
Breakout length:	1m	

*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

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 Compliant

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part number configurator

Example: FYXTP77Y001F030 = OM3 12-Fiber HD Flex™ Indoor Small Diameter Trunk, LSZH, 1x12-fiber PanMPO™ Female with 1m breakout to 1x12-fiber PanMPO™ Female with 1m breakout, Polarity B, Optimized IL, Pulling Eye End A, 30 meters.

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

1 – Fiber
F = Fiber

2 – Cable Type
T = Indoor trunk cable (72 – 144 fibers)
Y = Indoor small diameter
    trunk cable (12 – 48 fibers)

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

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)
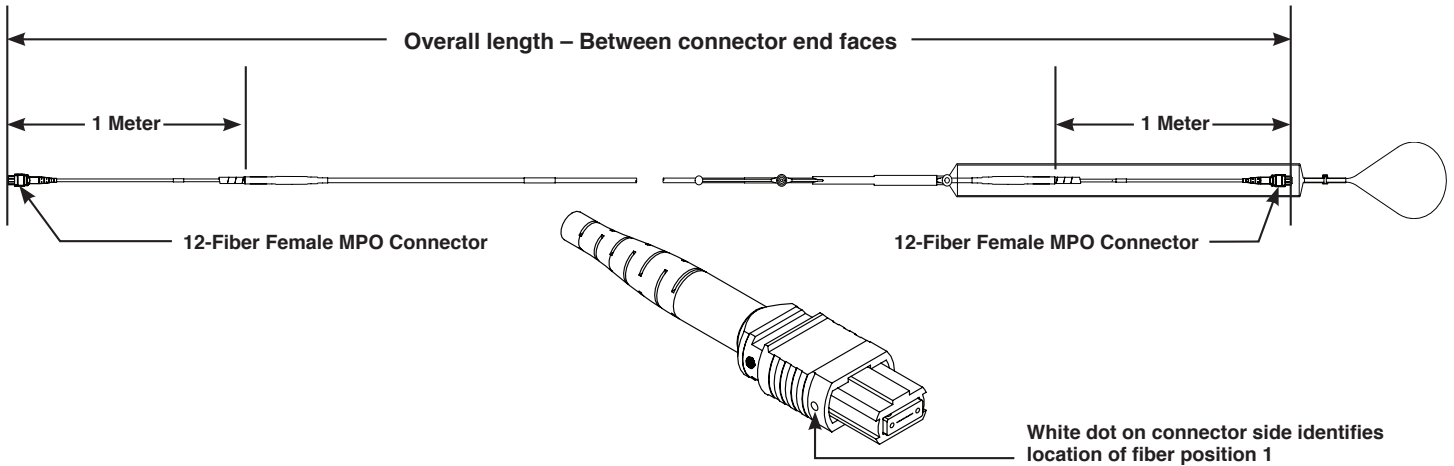
9 – 11 – Serial

12 – Unit of Measure
M = Meters

13, 14, 15 – Cable Assembly Length
005 – 999 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

Overall length – Between connector end faces

1 Meter

1 Meter

12-Fiber Female MPO Connector

12-Fiber Female MPO Connector

White dot on connector side identifies location of fiber position 1

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

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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