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. Signature Core trunk cables support channel lengths 15-30% longer than traditional OM4/OM5 depending on the application (SR4, BiDi, SWDM4).

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.

construction

Cable type:	Indoor Trunk
Cable jacket rating:	Euroclass B2ca
Fiber types:	Multimode: 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
Jacket color:	OM4+ Aqua / OM5+ Lime Green

optical properties

Maximum cable attenuation:	Multimode:	2.8dB/km at 850nm / 1.0dB/km at 1300nm
Maximum connector insertion loss:	Ultra Multimode MPO:	0.25dB
Maximum connector return loss:	Multimode:	MPO 30dB

physical properties

Cable outside diameter (OD):	12-fiber: 4.5mm / 24-fiber: 5.4mm / 48-fiber: 9.4mm
Cable Construction:	12-fiber - 250µm Distribution Cable / 24-fiber - 250µm Distribution Cable / 48-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 440N (100 lbs.) / 48-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

Euroclass B2ca Signature Core Trunk Cable Assemblies

part number configurator

Example: FYSTB77L001M030 = OM4+ 12-Fiber HD Flex™ Indoor Small Diameter Trunk, B2ca, 1x12-fiber PanMPO Female with 1m breakout to 1x12-fiber PanMPO Female with 1m breakout, Polarity B, Ultra 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	S	T	B	7	7	L	0	0	1	M	0	3	0

1 – Fiber
F = Fiber

2 – T = Indoor trunk cable (48 fiber)
Y = Indoor small diameter (12, 24 fiber) trunk cable

3 – Fiber Type
S = OM4+ 50/125µm
W = OM5+ 50/125µm

4 – Fiber Count
T = 12 fibers
U = 24 fibers
W = 48 fibers

5 – Jacket Type
B = Euroclass B2ca

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
K = Method A, Ultra IL
L = Method B, Ultra IL
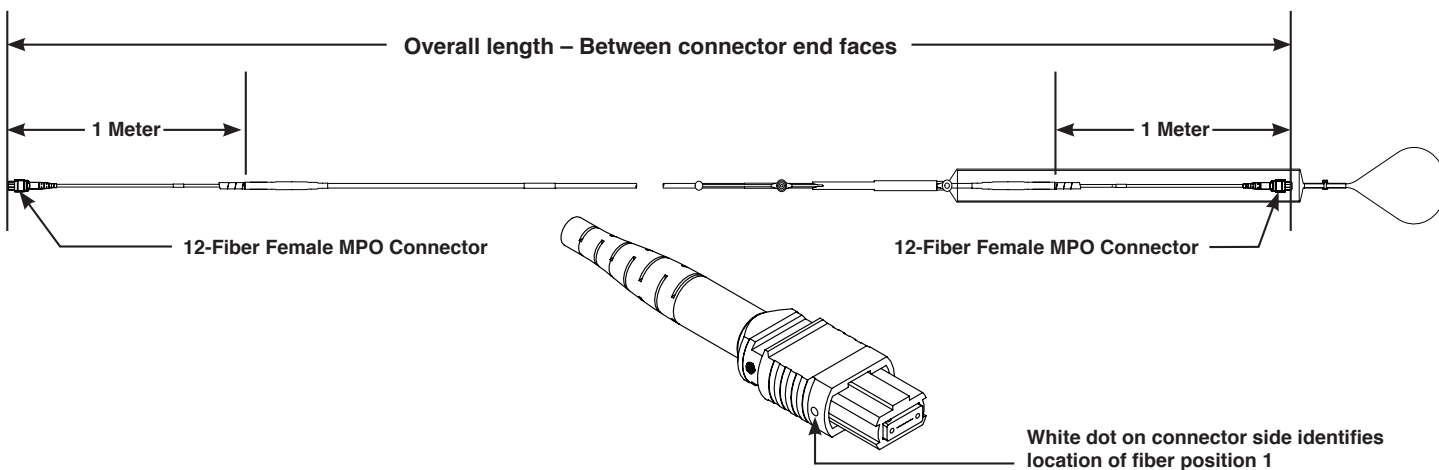
9 – 11 - Serial

12 – Unit of Measure
M = Meters

13, 14, 15 – Cable Assembly Length
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

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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