QuickNet™ Indoor/Outdoor Riser, Low Smoke Zero Halogen, Euroclass Cca Trunk Assemblies

PANDUIT®
SPECIFICATION SHEET

specifications

High Fiber 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. 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 consolidate multiple MPO-12 fiber connectors onto a single cable to reduce cable congestion and optimize cable management in large and hyperscale datacenters. The indoor/outdoor, riser, LSZH, Euroclass Cca cable rating allows a single cable to be used globally while maintaining compliance to regional fire codes.

construction

Cable type:	Indoor/Outdoor Bend Insensitive Rollable Ribbon
Cable jacket rating:	Multi Rated Riser, Low Smoke Zero Halogen, Euroclass Cca
Fiber types:	Singlemode: OS2 9/125µm
Connector types end 'A':	12F-MPO APC Female or Male
Connector types end 'B':	12F-MPO APC Female or Male, Pigtail
Fiber count:	144, 288, 432, 576, and 864
Jacket color:	OS2: Yellow
Water blocking:	Dry Type

optical properties

Maximum cable attenuation:	Singlemode: 0.4dB/km at 1310nm 0.3dB/km at 1550nm
Maximum connector insertion loss:	Standard Singlemode MPO: 0.75dB
Maximum connector return loss:	Singlemode: 55dB

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)

physical & mechanical properties

Cable outside diameter (OD):	144 fiber:	10.5mm
	288 fiber:	12.5mm
	432 fiber:	15.5mm
	576 fiber:	17.0mm
	864 fiber:	19.5mm
Minimum bend radius:	Under load: 40 × Cable OD	
	Static:	144f: 420mm
		288f: 500mm
		432f: 620mm
		576f: 680mm
		864f: 780mm
Cable tensile strength:	2670 N (600 lbs.)	
Connector durability:	500 mating cycles*	
Breakout outside diameter:	3.0mm	
Breakout length:	144 fiber:	No Pulling eye 39" End MPOs 1-6 34" MPOs 7-12 39"
	288 fiber:	No Pulling eye 39" End Pulling eye MPOs 1-8 32.5" MPOs 9-16 39" MPOs 17-24 45.5"
	432 fiber:	No Pulling eye 39" End Pulling eye MPOs 1-12 32.5" MPOs 13-24 39" MPOs 25-36 45.5"
	567 fiber:	No Pulling eye 39" End Pulling eye MPOs 1-16 32.5" MPOs 17-32 39" MPOs 33-48 45.5"
	864 fiber:	No Pulling eye 39" End MPOs 1-24 32.5" MPOs 25-48 39" MPOs 49-72 45.5"

*With proper cleaning and inspecting

standards

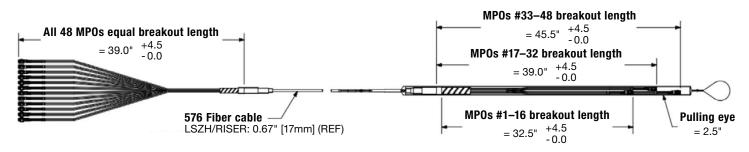|	
Meets or exceeds:	TIA/EIA-568-C.3, Telcordia GR-409/ICEAS-83-696/ICEA-S-104-696/ICEA-S-115-730 RoHS Complaint

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part number

Example: F8RNM5E5EAAM100 = OS2 BISMF, 864 Fiber, I/O Trunk Cable, OFNR/LSZH/Cca, MPO-12 Female to MPO-12 Female, Method A, Standard IL, Pulling Eye, 100 Meters

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	F	8	R	N	M	5	E	5	E	A	A	M	1	0	0

1 – Fiber
F = Fiber

2 – Fiber Type
8 = OS2 BISMF 9/125μm

3 – Fiber Count
A = 144-Fiber
B = 288-Fiber
N = 432-Fiber
O = 576-Fiber
R = 864-Fiber

4 – Cable Type
N = Indoor/Outdoor Trunk

5 – Jacket Type
M = OFNR/LSZH/Cca

6 – Connector Type End "A"
5 = MPO-12 female
6 = MPO-12 male
7 = PanMPO-12 female
8 = PanMPO-12 male

7 – Connector Variant
E = Standard breakout

8 – Connector Type End "B"
5 = MPO-12 female
6 = MPO-12 male
7 = PanMPO-12 female
8 = PanMPO-12 male
N = Pigtail

9 – Connector Variant
E = Standard breakout (MPO only)
N = No breakout (Pigtail only)

10 – Construction/Performance
A = Polarity Method A
B = Polarity Method B
C = Polarity Method C

11 – Other
A = Pulling Eye End "A"
N = Pulling eye on blunt end (Pigtail only)

12 – Unit of Length
F = Feet
M = Meters

13, 14, 15 – Cable Assembly Length
F = 020 - 999
M = 006 - 999

small diameter trunk cable assembly detail

All 48 MPOs equal breakout length = 39.0" +4.5 / -0.0

576 Fiber cable LSZH/RISER: 0.67" [17mm] (REF)

MPOs #33–48 breakout length = 45.5" +4.5 / -0.0

MPOs #17–32 breakout length = 39.0" +4.5 / -0.0

MPOs #1–16 breakout length = 32.5" +4.5 / -0.0

Pulling eye = 2.5"

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