

QuickNet™ Small Diameter Trunk Cable Assemblies OFNP and LSZH

technical information

Small Diameter Trunk Cable Assemblies 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 optimize cable routing requirements to ensure efficient use of pathway space and significantly reduce installation time and cost. QuickNet™ Small Diameter Trunk Cable Assemblies are built with modular MPO connectivity and provide compatibility, flexibility and system performance in all permanent link applications. All small diameter trunk cable assemblies are factory terminated and tested to deliver verified optical performance and reliability for improved network integrity. 10Gig versions provide 10 Gb/s network performance up to 300 meters for OM3 and up to 550 meters for OM4 per IEEE 802.3ae 10 GbE standard while maintaining compatibility with legacy systems.



application

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: | Plenum (OFNP) NFPA 262 Low Smoke Zero Halogen (LSZH) IEC 60332-1 and IEC 60332-3C | |
| Fiber types: | Singlemode: | OS1/OS2 9/125µm Multimode: OM3 50/125µm OM4 50/125µm |
| Connector types end 'A': | MPO Female or MPO Male, LC Duplex (12F only) | |
| Connector types end 'B': | MPO Female or MPO Male, LC Duplex (12F only) | |
| Fiber count: | 12, 24 and 48 | |
| Jacket color: | OS1/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 1.5dB/km at 1300nm |
| Maximum connector insertion loss: | Standard Singlemode MPO: | 0.75dB |
| | Standard Multimode MPO: | 0.50dB |
| | Optimized Multimode MPO: | 0.35dB |
| | Standard Singlemode LC: | 0.35dB |
| | Standard Multimode LC: | 0.25dB |
| | Optimized Multimode LC: | 0.15dB |
| Minimum 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 |
| Cable weight (kg/km) (lb/kft): | 12-fiber LSZH: | 22.2kg/km (14.9 lb/kft) |
| | 24-fiber LSZH: | 29.7kg/km (19.9 lb/kft) |
| | 12-fiber Plenum: | 23.6kg/km (15.9 lb/kft) |
| | 24-fiber Plenum: | 31.7kg/km (21.3lb/kft) |
| Minimum bend radius: | Under load: | 20 x Cable OD |
| | Static: | 10 x Cable OD |
| Cable tensile strength: | 440N | |
| Cable compressive load: | 10 N/mm | |
| Connector cable retention: | 50N | |
| Connector durability: | 500 mating cycles* | |
| Breakout outside diameter: | 3.0mm | |
| Transition outside diameter: | 12-fiber: | 10mm |
| | 24-fiber: | 10mm |
| | 48-fiber: | 12mm |
| Pulling eye diameter: | 12-fiber: | 19mm |
| | 24-fiber: | 23mm |
| | 48-fiber: | 29mm |
| 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

Example: FXUYP5E5EAAM030 = OM3, 24-fiber, indoor small diameter trunk cable, plenum, MPO female to MPO female, polarity A, pulling eye, 30 meters.

| CHARACTER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| EXAMPLE | F | X | U | Y | P | 5 | E | 5 | E | A | A | M | 0 | 3 | 0 |

1 – Fiber

F = Fiber

2 – Fiber Type

9 = OS1/OS2 9/125µm

X = OM3 50/125µm

Z = OM4 50/125µm

3 – Fiber Count

T = 12 fiber

U = 24 fiber

W = 48 fiber

4 – Cable Type

Y = Indoor small diameter trunk cable

5 – Jacket Type

P = Plenum (OFNP)

L = Low Smoke Zero Halogen (LSZH)

6 – Connector Type (end A)

5 = MPO female connector

6 = MPO male connector

L = LC duplex (12 and 24 fiber only)

7 – Connector Variant

E = (MPO)

2 = 2.0mm upjacket (LC)

5 = 39" Breakout with HD Flex™ Transition

8 – Connector Type (end B)

5 = MPO female connector

6 = MPO male connector

L = LC Duplex (12 and 24 fiber only)

9 – Connector Variant

E = 1m breakout (MPO)

2 = 2.0mm upjacket (LC)

5 = 39" Breakout with HD Flex™ Transition

10 – Construction/Performance

A = Polarity Method A, Standard IL (MPO to MPO)

B = Polarity Method B, Standard IL (MPO to MPO)

O = Optimized Performance/Std. Polarity (MPO to LC or LC to LC)

S = Std. Performance/Std. Polarity (MPO to LC or LC to LC)

X = Polarity Method A, Optimized IL (MPO to MPO)

Y = Polarity Method B, Optimized IL (MPO to MPO)

11 – Other

A = Pulling eye end A

N = No pulling eye (lengths less than 20 meters/60 feet only)

12 – Unit of Length

M = Meters

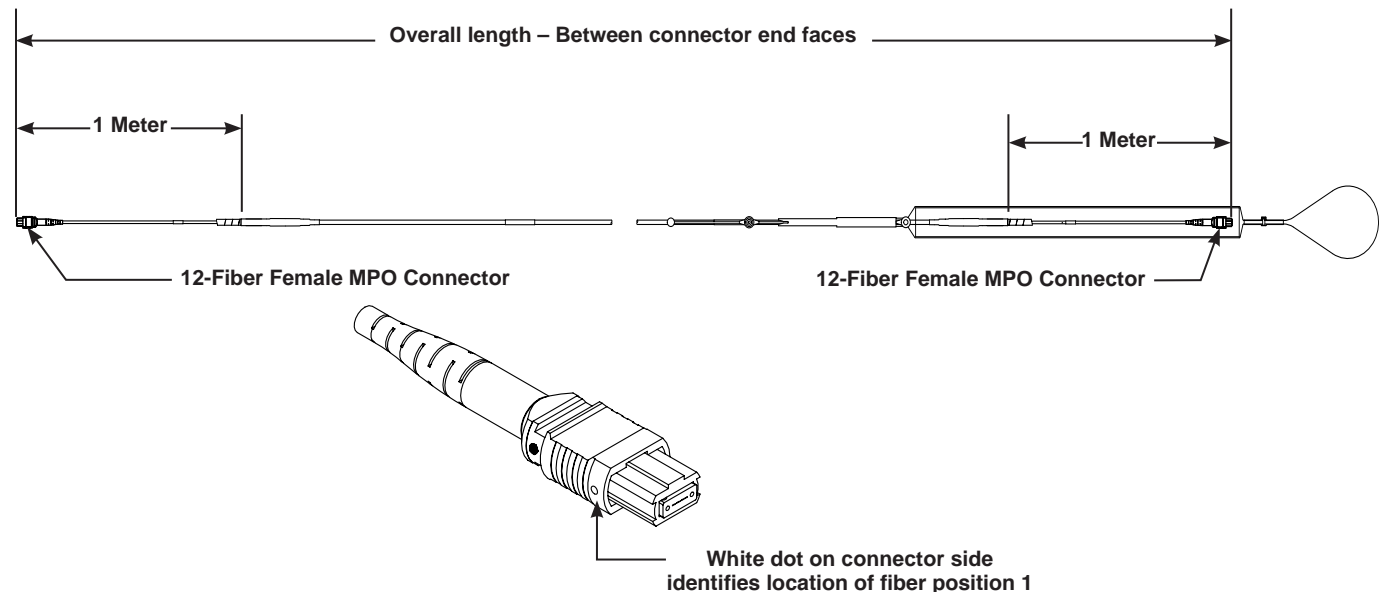
F = Feet

13, 14, 15 – Cable Assembly Length

M = 005 – 100

F = 015 – 300

small diameter trunk cable assembly detail



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

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FBSP74--WW-ENG
11/2017