

# 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

<b>Cable type:</b>	Indoor Small Diameter Trunk	
<b>Cable jacket ratings:</b>	Plenum (OFNP) NFPA 262 Low Smoke Zero Halogen (LSZH) IEC 60332-1 and IEC 60332-3C	
<b>Fiber types:</b>	Singlemode:	OS1/OS2 9/125µm
	Multimode:	OM3 50/125µm OM4 50/125µm
<b>Connector types end 'A':</b>	MPO Female or MPO Male	
<b>Fiber count:</b>	12, 24	
<b>Polarity:</b>	MPO – MPO:	Method A or Method B
<b>Jacket color:</b>	OS1/OS2	Yellow
	OM3	Aqua
	OM4	Aqua
<b>Connector types, End 'B':</b>	MPO Female or MPO Male	

## physical properties

<b>Cable outside diameter (OD):</b>	12-fiber:	4.5mm
	24-fiber:	5.4mm
<b>Minimum bend radius:</b>	Under load:	20 x Cable OD
	Static:	10 x Cable OD
<b>Cable tensile strength:</b>	12-fiber:	440N
	24-fiber:	660N
<b>Cable compressive load:</b>	10 N/mm	
<b>Cable flex:</b>	25 cycles	
<b>Connector cable retention:</b>	50N	
<b>Connector durability:</b>	MPO – 500 mating cycles	
<b>Breakout outside diameter:</b>	3.0mm	
<b>Transition outside diameter:</b>	12-fiber:	10mm
	24-fiber:	10mm
<b>Pulling eye diameter:</b>	12-fiber:	19mm
	24-fiber:	23mm
<b>Cable twist:</b>	10 cycles	
<b>Breakout length:</b>	1m	

## optical properties

<b>Maximum cable attenuation:</b>	Singlemode:	1.0dB/km at 1310/1550nm
	Multimode:	3.5dB/km at 850nm 1.5dB/km at 1300nm
<b>Maximum connector insertion loss (per mated pair):</b>	Singlemode:	0.75dB
	Multimode:	0.50dB
<b>Minimum connector return loss:</b>	Singlemode:	55dB
	Multimode:	OM3 30dB minimum OM4 30dB minimum

## environmental properties

<b>Operating temperature:</b>	0°C to + 70°C (32°F to 158°F)
<b>Storage and shipping temperature:</b>	-40°C to +70°C (-40°F to 158°F)
<b>Installation temperature:</b>	-0°C to + 60°C (32°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 Complaint

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## part number

Example: FXUYL5E5EAAM030 = 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

### 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

### 7 – Connector Variant

E = 1m breakout

### 8 – Connector Type (end B)

5 = MPO female connector

6 = MPO male connector

### 9 – Connector Variant

E = 1m breakout

### 10 – Construction/Performance

A = Polarity Method A, Standard IL

B = Polarity Method B, Standard IL

### 11 – Other

A = Pulling eye end A

N = No pulling eye

### 12 – Unit of Length

M = Meters

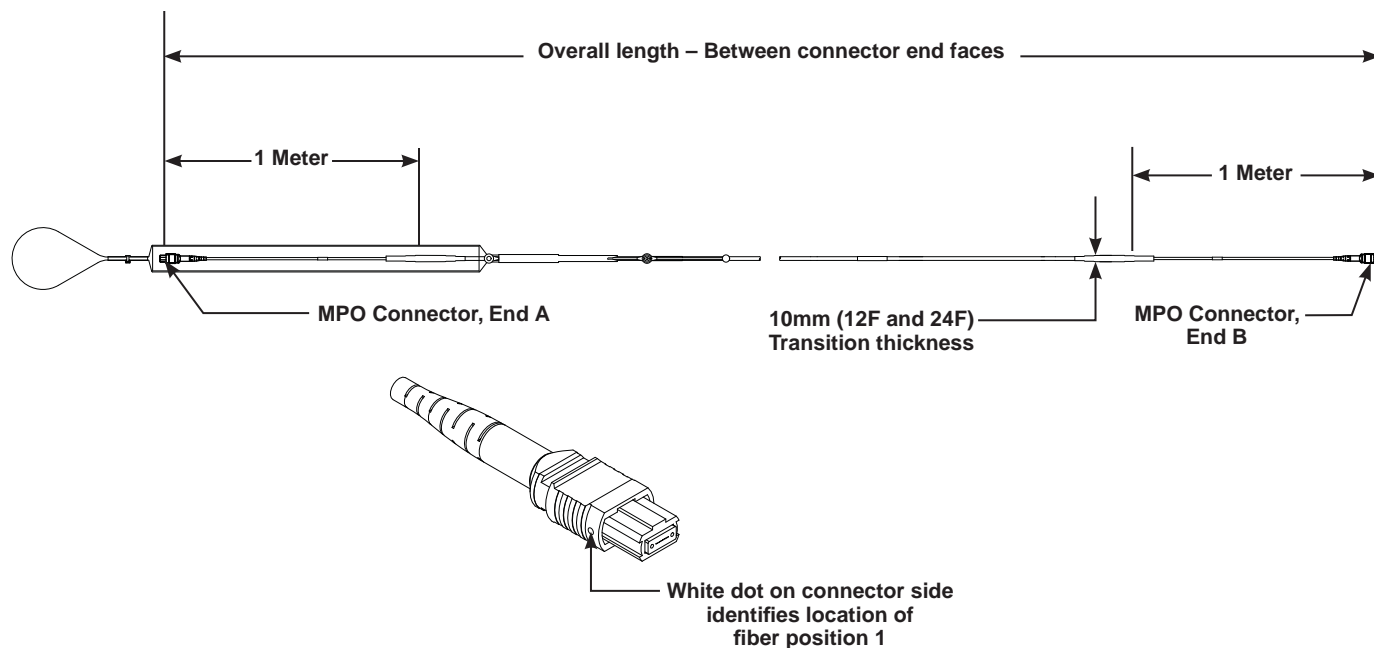
F = Feet

### 13, 14, 15 – Cable Assembly Length

M = 005 – 100

F = 005 – 300

## Small diameter trunk cable assembly detail



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

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