

# Plenum Trunk Cable Assemblies

## 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. 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 rating:</b>	Optical Fiber Non-conductive Plenum (OFNP)	
<b>Fiber types:</b>	Singlemode:	OS2 9/125µm
	Multimode:	OM3 50/125µm OM4 50/125µm OM5 50/125µm
<b>Connector types end 'A':</b>	12-fiber – MPO Female or Male, 12-fiber – PanMPO™ Female or Male	
<b>Connector types end 'B':</b>	12-fiber – MPO Female or Male, 12-fiber – PanMPO™ Female or Male, Pigtail	
<b>Fiber count:</b>	12, 24, 48, 72, 96, and 144	
<b>Jacket color:</b>	OS2	Yellow
	OM3	Aqua
	OM4	Aqua
	OM5	Lime

## optical properties

<b>Maximum cable attenuation:</b>	Singlemode:	0.4dB/km at 1310nm 0.3dB/km at 1550nm
	Multimode:	3.0dB/km at 850nm 1.0dB/km at 1300nm
<b>Maximum connector insertion loss:</b>	Standard Singlemode MPO:	0.75dB
	Standard Multimode MPO:	0.50dB
	Optimized Multimode MPO:	0.35dB
	Ultra Multimode MPO:	0.25dB
<b>Maximum connector return loss:</b>	Singlemode:	55dB
	Multimode:	MPO 30dB LC 26dB

## physical properties

<b>Cable outside diameter (OD):</b>	12-fiber: 4.5mm 24-fiber: 5.4mm 48-fiber: 5.6mm	72-fiber: 6.6mm 96-fiber: 8.1mm 144-fiber: 9.4mm
<b>Cable Construction:</b>	250µm Distribution Cable	
<b>Minimum bend radius:</b>	Under load:	20 × Cable OD
	Static:	10 × Cable OD
<b>Cable tensile strength:</b>	440 N (100 lbs.)	
<b>Cable compressive load:</b>	100 N/mm	
<b>Connector durability:</b>	500 mating cycles*	
<b>Breakout outside diameter:</b>	2.0mm	
<b>Breakout length:</b>	1m	

\*With proper cleaning and inspecting.

## environmental properties

<b>Operating temperature:</b>	-20°C to +70°C (-4°F to 158°F)
<b>Storage and shipping temperature:</b>	-40°C to +70°C (-40°F to 158°F)
<b>Installation temperature:</b>	-10°C to +60°C (14°F to 140°F)

## standards

<b>Meets or exceeds:</b>	ISO/IEC 1180, 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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# Plenum Trunk Cable Assemblies

## part number configurator

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

<b>CHARACTER</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
<b>EXAMPLE</b>	<b>F</b>	<b>Y</b>	<b>X</b>	<b>T</b>	<b>P</b>	<b>7</b>	<b>7</b>	<b>Y</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>F</b>	<b>0</b>	<b>3</b>	<b>0</b>

### 1 – Fiber

F = Fiber

### 2 – Cable Type

Y = Indoor small diameter trunk cable

### 3 – Fiber Type

9 = OS2 Singlemode 9/125µm  
 X = OM3 50/125µm  
 Z = OM4 50/125µm  
 W = OM5 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

P = Plenum

### 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

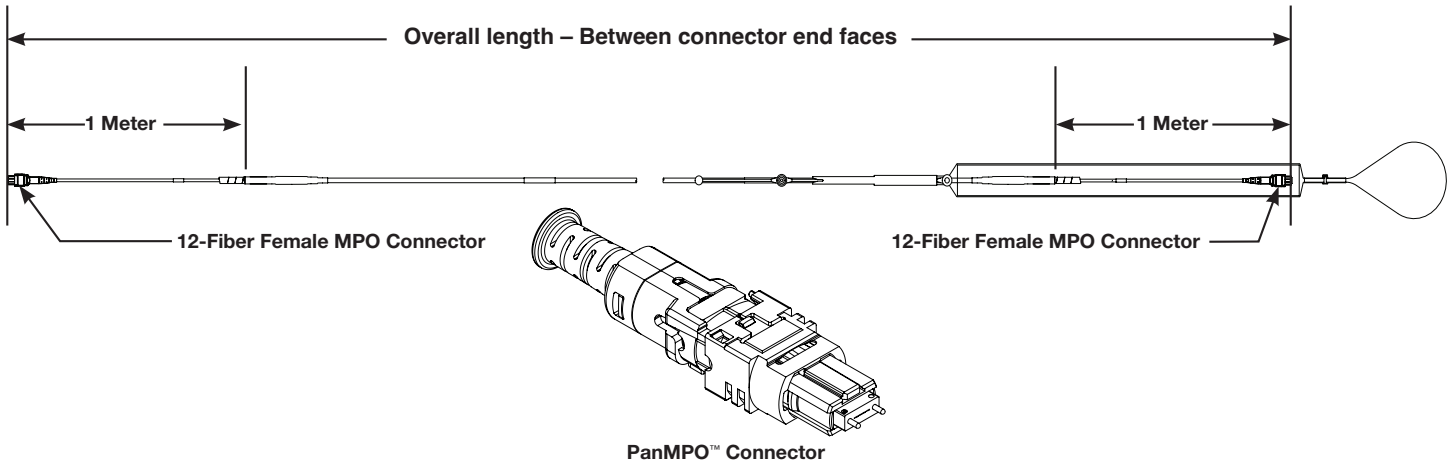
F = Feet  
 M = Meters

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

015 – 999 Feet  
 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



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

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