

# Low Smoke Zero Halogen 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.

## constructions

<b>Cable type:</b>	Indoor Trunk
<b>Cable jacket rating:</b>	Low Smoke Zero Halogen (LSZH)
<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 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: 6.1mm	72-fiber: 9.4mm 96-fiber: 9.4mm 144-fiber: 11mm
<b>Cable Construction:</b>	12-fiber - 250µm Distribution Cable 24-fiber - 250µm Distribution Cable 48-fiber - 250µm Distribution Cable 72-fiber - Ribbon Distribution Cable 96-fiber - Ribbon Distribution Cable 144-fiber - Ribbon Distribution Cable	
<b>Minimum bend radius:</b>	Under load: 20 × Cable OD Static: 10 × Cable OD	
<b>Cable tensile strength:</b>	12-fiber, 24-fiber and 48-fiber 440 N (100 lbs.) 72-fiber, 96-fiber and 144-fiber 1335 N (300 lbs.)	
<b>Cable compressive load:</b>	100 N/mm	
<b>Connector durability:</b>	500 mating cycles*	
<b>Breakout outside diameter:</b>	3.0mm	
<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 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
--------------------------	--

# Low Smoke Zero Halogen Trunk Cable Assemblies

## part number configurator

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

<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>	F	Y	X	T	L	7	7	Y	0	0	1	M	0	3	0

### 1 – Fiber

F = Fiber

### 2 – Cable Type

Y = Indoor trunk

### 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

L = LSZH

### 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

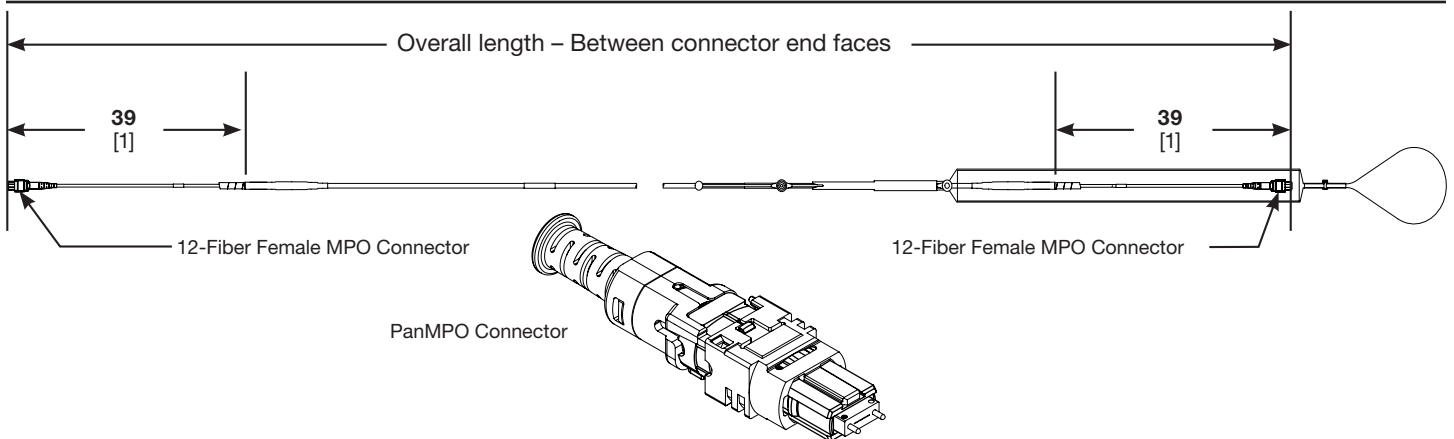
M = Meters

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

005 – 999 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
008	Standard to pigtail	No

## small diameter trunk cable assembly detail



Dimensions are in inches. [Dimensions in brackets are metric].

### WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA  
Phone: 800.777.3300

PANDUIT EUROPE LTD.  
London, UK  
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.  
Republic of Singapore  
Phone: 65.6305.7575

PANDUIT JAPAN  
Tokyo, Japan  
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA  
Guadalajara, Mexico  
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.  
Victoria, Australia  
Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to [www.panduit.com/warranty](http://www.panduit.com/warranty)

For more information

Visit us at [www.panduit.com](http://www.panduit.com)

Contact Customer Service by email: [cs@panduit.com](mailto:cs@panduit.com)

or by phone: 800.777.3300

**PANDUIT**®

© 2023 Panduit Corp.  
ALL RIGHTS RESERVED.  
FBSP164-WW-ENG  
9/2023