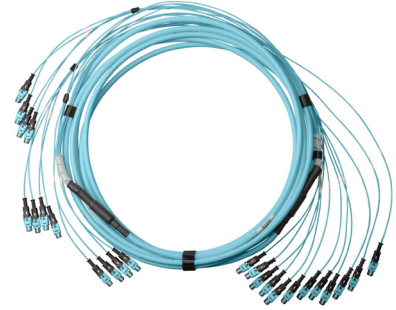# Plenum Base 8 MPO Trunk Cable Assemblies

## 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 to support all 8-Fiber applications including SR4, DR4, SR4.2, and speeds from 10G to 800G 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

| | |
|---|---|
| **Cable type:** | Indoor Small Diameter Trunk |
| **Cable jacket rating:** | Plenum |
| **Fiber types:** | Singlemode: OS2 9/125µm |
| | Multimode: OM4 50/125µm<br>OM4+ 50/125µm<br>OM5 50/125µm |
| **Connector types end 'A':** | MPO-8 Female or Male,<br>PanMPO™-8 Female or Male |
| **Connector types end 'B':** | MPO-8 Female or Male,<br>PanMPO-8 Female or Male, Pigtail |
| **Fiber count:** | 8, 16, 24, 48, 72, 96, 144 |
| **Jacket color:** | OS2    Yellow<br>OM4    Aqua<br>OM4+   Aqua<br>OM5    Lime |

## physical properties

| | |
|---|---|
| **Cable outside diameter (OD):** | 8-fiber: 4.5mm    72-fiber: 6.6mm<br>16-fiber: 5.4mm   96-fiber: 8.1mm<br>24-fiber: 5.9mm   144-fiber: 9.6mm<br>48-fiber: 5.9mm |
| **Cable construction:** | 250µm Distribution Cable |
| **Minimum bend radius:** | Under load:    20 × Cable OD<br>Static:         10 × Cable OD |
| **Cable tensile strength:** | 440N (100 lbs.) |
| **Cable compressive load:** | 100 N/mm |
| **Connector durability:** | 500 mating cycles* |
| **Breakout outside diameter:** | 2.0mm |
| **Breakout length:** | 1m |

*With proper cleaning and inspecting.

## optical properties

| | | |
|---|---|---|
| **Maximum cable attenuation:** | Singlemode: | 0.4dB/km @ 1310nm<br>0.3dB/km @ 1550nm |
| | Multimode: | 3.0dB/km @ 850nm<br>1.0dB/km @ 1300nm |
| **Maximum connector insertion loss:** | Singlemode: | PanMPO/MPO Standard IL: 0.75dB |
| | Multimode: | PanMPO/MPO Optimized IL 0.35dB<br>PanMPO/MPO Ultra: 0.25dB |
| **Connector return loss:** | Singlemode: | >55dB |
| | Multimode: | >30dB |

## environmental properties

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

## standards

| | |
|---|---|
| **Meets or exceeds:** | ISO/IEC 11801, TIA/EIA-568-C.3,<br>TIA-604-5 (FOCIS-5),<br>TIA/EIA-568-C.1, GR-409-CORE,<br>ICEA S-83-596, RoHS Compliant |

# Plenum Base 8 MPO Trunk Cable Assemblies

## part number configurator

FYZ8PJJY011F030 = OM4 8-Fiber HD Flex, Indoor Small Diameter Trunk, Plenum, 1× PanMPO-8 Female with 1m breakout to 1× PanMPO-8 Female with 1m breakout, Polarity B, Optimized IL, Pulling Eye End A, 30 feet

| Character | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Example | F | Y | Z | 8 | P | J | J | Y | 0 | 1 | 1 | F | 0 | 3 | 0 |

**1 – Fiber**
F = Fiber

**2 – Cable Type**
Y = Indoor small diameter trunk cable

**3 – Fiber Type**
9 = OS2 Singlemode 9/125µm
Z = OM4 50/125µm
S = OM4+ 50/125µm
W = OM5 50/125µm

**4 – Fiber Count**
8 = 8-Fibers
C = 16-Fibers
U = 24-Fibers
W = 48-Fibers
X = 72-Fibers
Y = 96-Fibers
A = 144-Fibers

**5 – Jacket Type**
P = Plenum

**6 & 7 - Connector Types**
G = MPO-8 Female (MM)
H = MPO-8 Male (MM)
J = PanMPO-8 Female (MM)
K = PanMPO-8 Male (MM)
X = MPO-8 Female APC (SM)
Y = MPO-8 Male APC (SM)
V = PanMPO-8 Female APC (SM)
W = PanMPO-8 Male APC (SM)
U = Pigtail (End B only)

**8 – Construction/Perfomance**
A = Method A, Standard IL (SM)
B = Method B, Standard IL (SM)
X = Method A, Optimized IL
Y = Method B, Optimized IL
K = Method A, Ultra IL (MM)
    (8 – 48-Fibers)
L = Method B, Ultra IL (MM)
    (8 – 48-Fibers)

**9-11 – Serial**
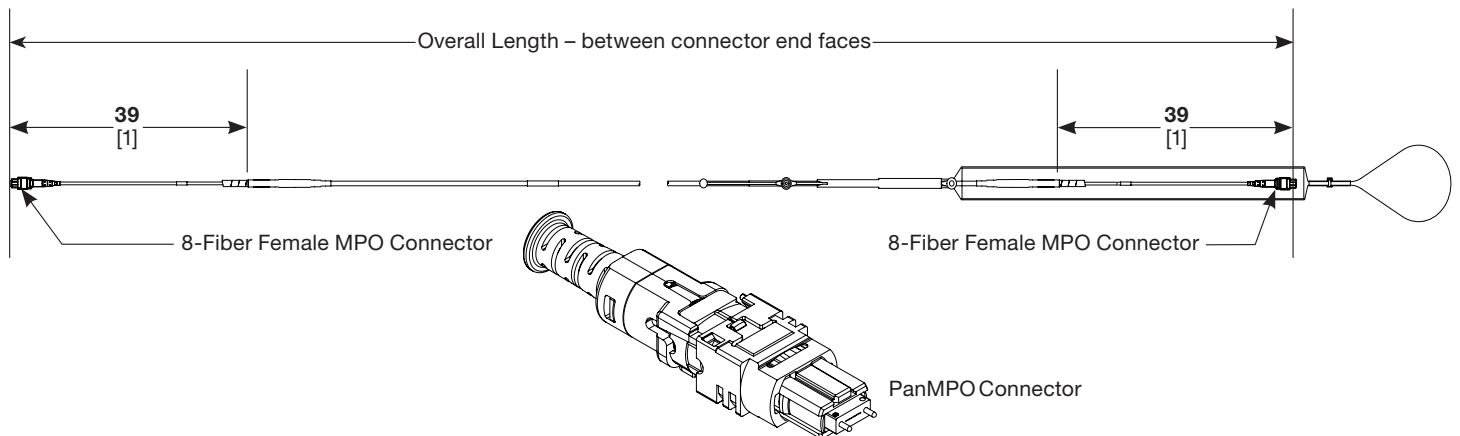
**12 – Unit of Measure**
F = Feet
M = Meters

**13, 14, 15 – Cable Asembly Length**
015 – 999 Feet
005 – 999 Meters

| Serial | Transition | Pulling Eye |
|---|---|---|
| 011 | HD Flex | Yes |
| 012 | HD Flex | No |
| 013 | HD Flex to pigtail | Yes |
| 014 | HD Flex to pigtail | No |
| 015 | Standard | Yes |
| 016 | Standard | No |
| 017 | Standard to pigtail | Yes |
| 018 | Standard to pigtail | No |

## small diameter trunk cable assembly detail



Overall Length – between connector end faces

39 [1]

39 [1]

8-Fiber Female MPO Connector

8-Fiber Female MPO Connector

PanMPO Connector

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

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