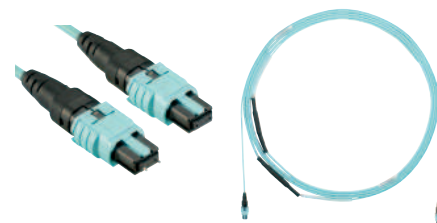


# QuickNet™ PanMPO™ Small Diameter Trunk Cable Assemblies

## technical information

PanMPO™ Trunk Assemblies are pre-terminated 12-fiber and 24-fiber cable assemblies. The unique design of the PanMPO™ Connector allows for rapid gender and polarity change in the field, in support of standards-compliant cable plant migration from 10G cassette-based systems to 40G MPO connector-based parallel optics cable plant. These trunk cable assemblies optimize cable routing requirements to ensure efficient use of pathway space and significantly reduce installation time and cost. 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

10G fiber backbone or permanent link when mated to QuickNet™ Cassettes or fiber adapter panels paired with MPO to LC breakout harnesses. Method A and Method B TIA-568-C compliant for 40G parallel optics multimode 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 ratings:</b>    | Optical Fiber Non-conductive Plenum (OFNP)<br>Low Smoke Zero Halogen (LSZH) |                              |
| <b>Fiber types:</b>             | Multimode:                                                                  | OM3 50/125µm<br>OM4 50/125µm |
| <b>Connector types end 'A':</b> | PanMPO™ Female<br>PanMPO™ Male<br>LC duplex (12F only)                      |                              |
| <b>Connector types end 'B':</b> | PanMPO™ Female<br>PanMPO™ Male<br>LC duplex (12F only)                      |                              |
| <b>Fiber count:</b>             | 12 and 24                                                                   |                              |
| <b>Jacket color:</b>            | OM3:                                                                        | Aqua                         |
|                                 | OM4:                                                                        | Aqua                         |

## physical properties

|                                     |                    |       |
|-------------------------------------|--------------------|-------|
| <b>Cable outside diameter (OD):</b> | 12-fiber:          | 4.5mm |
|                                     | 24-fiber:          | 5.4mm |
| <b>Minimum bend radius:</b>         | 30mm               |       |
| <b>Cable tensile strength:</b>      | 12-fiber:          | 440N  |
|                                     | 24-fiber:          | 660N  |
| <b>Cable compressive load:</b>      | 10 N/mm            |       |
| <b>Flex:</b>                        | 100 cycles at 4.9N |       |
| <b>Connector cable retention:</b>   | 50N                |       |
| <b>Connector durability:</b>        | 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>Twist:</b>                       | 10 cycles at 15N   |       |
| <b>Breakout length:</b>             | 1m                 |       |

## optical properties

|                                                           |               |                                         |
|-----------------------------------------------------------|---------------|-----------------------------------------|
| <b>Maximum cable attenuation:</b>                         | Multimode:    | 3.5dB/km at 850nm<br>1.5dB/km at 1300nm |
| <b>Maximum connector insertion loss (per mated pair):</b> | Standard IL:  | 0.50dB                                  |
|                                                           | Optimized IL: | 0.35dB                                  |
| <b>Minimum connector return loss:</b>                     | Multimode:    | OM3 30dB minimum<br>OM4 30dB minimum    |

## environmental properties

|                                          |                |
|------------------------------------------|----------------|
| <b>Operating temperature:</b>            | 0°C to +70°C   |
| <b>Storage and shipping temperature:</b> | -40°C to +70°C |
| <b>Installation temperature:</b>         | -0°C to +60°C  |

## standards

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

\*With proper cleaning and inspection

# QuickNet™ PanMPO™ Small Diameter Trunk Cable Assemblies

## part number

Example: FXUYL7E7EAM030 = OM3, 24-fiber, indoor small diameter trunk cable, LSZH, PanMPO™ Female to PanMPO™ 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 | L | 7 | E | 7 | E | A  | A  | M  | 0  | 3  | 0  |

### 1 – Fiber

F = Fiber

### 2 – Fiber Type

X = OM3 50/125µm

Z = OM4 50/125µm

### 3 – Fiber Count

T = 12 fiber

U = 24 fibers

### 4 – Cable Type

Y = Indoor small diameter trunk cable

### 5 – Jacket Type

L = Low Smoke Zero

Halogen (LSZH)

P = Plenum (OFNP)

### 6 – Connector Type (End 'A')

7 = PanMPO™ Female

8 = PanMPO™ Male

L = LC duplex (12F only)

### 7 – Connector Variant (End 'A')

E = 1m breakout

### 8 – Connector Type (End 'B')

7 = PanMPO™ Female

8 = PanMPO™ Male

L = LC duplex (12F only)

### 9 – Connector Variant (End 'B')

E = 1m breakout

### 10 – Construction/Performance

A = Polarity A – standard IL

B = Polarity B – standard IL

X = Polarity A – optimized IL

Y = Polarity B – optimized IL

S = Standard performance/Standard

polarity (MPO-LC or LC-LC)

O = Optimized performance/Standard polarity (MPO-LC or LC-LC)

### 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

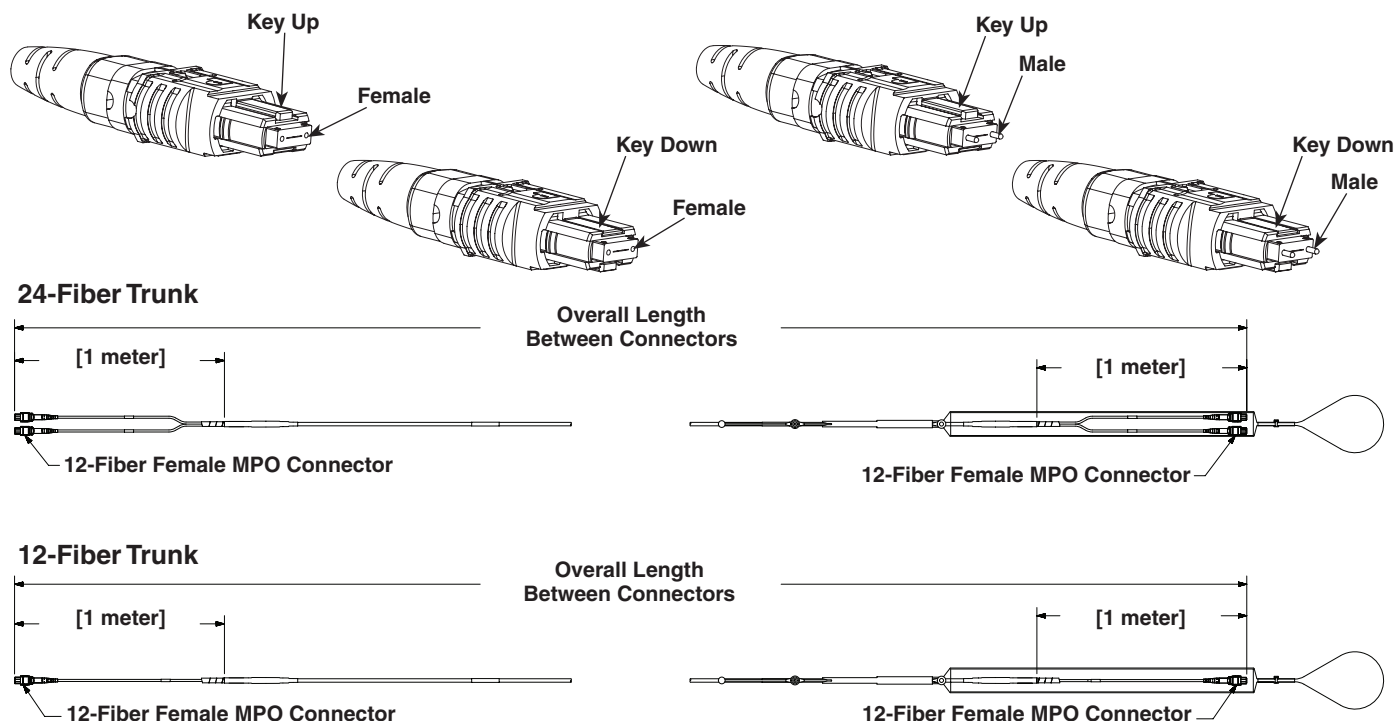
F = Feet

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

005 – 100M

016 – 300 ft.

## Small diameter trunk cable assembly detail



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

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