

# QuickNet™ MPO Interconnect Round Cable Assemblies

## technical information

MPO Interconnect Round Cable Assemblies are pre-terminated 12-fiber cable assemblies that are used in high-density network applications. These interconnect round cable assemblies are used with pre-terminated cassettes in main and horizontal cabling distribution areas. The QuickNet™ System meets the demands of Gigabit Ethernet, 10 Gigabit Ethernet, and high speed Fibre Channel systems while maintaining compatibility with Ethernet. The high-density modular design fits into rack mount fiber cassette enclosures to ensure efficient use of space and rapid network deployment.



## application

Allows system designers to tailor configuration and reach to application requirements; to minimize waste, optimize cable management, speed deployment, and improve flexibility and manageability for lower installation costs.

## construction

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| <b>Cable type:</b>               | 3.0mm indoor                                                               |
| <b>Cable jacket ratings:</b>     | Optical Fiber Nonconductive Plenum (OFNP)<br>Low Smoke Zero Halogen (LSZH) |
| <b>Fiber types:</b>              | Singlemode: OS1/OS2 9/125µm<br>Multimode: OM3 50/125µm<br>OM4 50/125µm     |
| <b>Connector types; end 'A':</b> | MPO Female or MPO Male                                                     |
| <b>Fiber count:</b>              | 12                                                                         |
| <b>Jacket color:</b>             | OS1/OS2: Yellow<br>OM3: Aqua<br>OM4: Aqua                                  |
| <b>Connector types; end 'B':</b> | MPO Female or MPO Male                                                     |

## optical properties

|                                          |                                                                                           |
|------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Maximum cable attenuation:</b>        | Singlemode: 1.0dB/km at 1310/1550nm<br>Multimode: 3.5dB/km at 850nm<br>1.5dB/km at 1300nm |
| <b>Maximum connector insertion loss:</b> | Singlemode: 0.75dB<br>Multimode: 0.50dB                                                   |
| <b>Minimum connector return loss:</b>    | Singlemode: 55dB<br>Multimode: OM3 26dB<br>OM4 26dB                                       |

## physical properties

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| <b>Cable outside diameter (OD):</b> | 3.0mm                                              |
| <b>Minimum bend radius:</b>         | Under load: 20 x cable OD<br>Static: 10 x cable OD |
| <b>Cable tensile strength:</b>      | 22N                                                |
| <b>Cable compressive load:</b>      | 35N/cm                                             |
| <b>Cable flex:</b>                  | 25 cycles                                          |
| <b>Cable twist:</b>                 | 10 cycles                                          |
| <b>Connector durability:</b>        | 500 mating cycles                                  |

## environmental properties

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

## standards

Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIA/EIA-568-C.1  
RoHS Compliant

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## part number

Example: FZTRP5N5NANM001 = Fiber OM4, 12-fibers, 3.0mm, plenum rated, MPO female to MPO female, polarity method A, no pulling eye, 1 meter

| Character | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| Example   | F | Z | T | R | P | 5 | N | 5 | N | A  | N  | M  | 0  | 0  | 1  |

### 1 – Fiber Product

F = Fiber

### 2 – Fiber Type

9 = OS1/2 9/125

X = OM3 50/125

Z = OM4 50/125

### 3 – Fiber Count

T = 12-fiber

### 4 – Cable Type

R = 3.0mm round indoor

### 5 – Jacket Type

L = Low Smoke Zero Halogen (LSZH)

P = Optical Fiber Nonconductive Plenum (OFNP)

### 6 – Connector Type End ‘A’

5 = MPO female

6 = MPO male

### 7 – Connector Variant

N = No variant

### 8 – Connector Type End ‘B’

5 = MPO female

6 = MPO male

### 9 – Connector Variant

N = No variant

### 10 – Construction/Performance

A = Polarity A-standard IL

### 11 – Other

N = No pulling eye

### 12 – Unit of Length

F = Feet

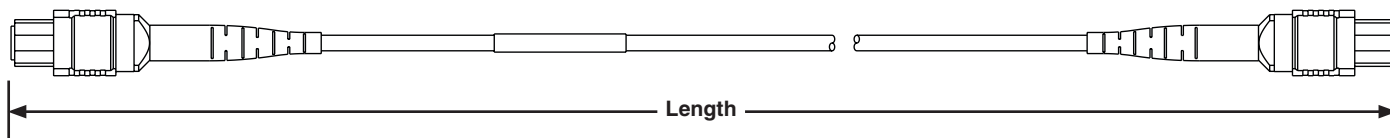
M = Meters

### 13, 14, 15 – Length

1 – 50m

3 – 150 feet

## QuickNet™ MPO Interconnect Round Cable Assembly Detail



Other options are available as follows:

Fiber Types: OM1 62.5/125, OM2 50/125, OM4+ 50/125 Signature Core™

Fiber Counts: 4-fiber, 6-fiber, and 8-fiber

Jacket Type: Dual LSZH/Riser OFNR, Riser OFNR

Construction/Performance: Polarity B – standard IL, Polarity A – optimized IL, Polarity B – optimized IL, Polarity C – optimized IL

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

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PANDUIT CANADA  
Markham, Ontario  
cs-cdn@panduit.com  
Phone: 800.777.3300

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cs-emea@panduit.com  
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11/2012