# 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

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

## physical properties

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

## optical properties

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

## environmental properties

| | |
|---|---|
| **Storage and shipping temperature:** | -40°C to 70°C |
| **Installation temperature:** | 0°C to 40°C |
| **Operating temperature:** | 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**
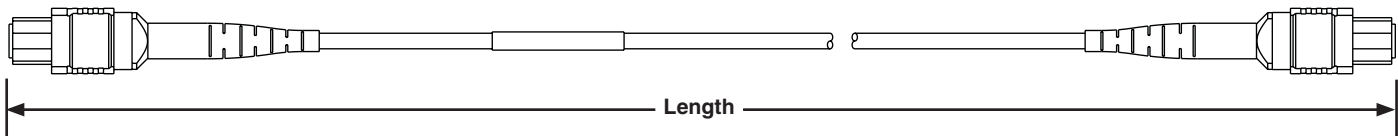  F = Feet
  M = Meters
**13, 14, 15 – Length**
  1 – 50m
  3 – 150 feet

## QuickNet™ MPO Interconnect Round Cable Assembly Detail



Length

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

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

**For more information**

**Visit us at www.panduit.com**

**Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300 and reference FBSP53**

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