

## technical information

MPO Interconnect Cable Assemblies are pre-terminated 8, 12, and 24-fiber cable assemblies that are used in high-density network applications. These interconnect cable assemblies are used with pre-terminated cassettes in main and horizontal cabling distribution areas or to directly connect devices via MPO connectivity to support 40G – 400G parallel optic applications. The QuickNet™ System meets the demands of 10G – 400G Ethernet and high speed Fibre Channel systems. 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>	Indoor
<b>Cable jacket ratings:</b>	Optical Fiber Nonconductive Plenum (OFNP) Low Smoke Zero Halogen (LSZH) Euroclass Cca (s1a-d1-a1)
<b>Fiber types:</b>	Singlemode: OS2 9/125µm Multimode: OM3 50/125µm OM4 50/125µm OM5 50/125µm  Signature Core™: OM4+ 50/125µm
<b>Connector types; end 'A':</b>	MPO/PanMPO™ Female MPO/PanMPO™ Male <small>Note: Singlemode MPO connectors are angled polish</small>
<b>Connector types; end 'B':</b>	MPO/PanMPO™ Female MPO/PanMPO™ Male <small>Note: Singlemode MPO connectors are angled polish</small>
<b>Fiber count:</b>	8, 12, 24
<b>Jacket color:</b>	OS2: Yellow OM3: Aqua OM4: Aqua OM5: Lime Green OM4+: Aqua

## optical properties

<b>Maximum cable attenuation:</b>	Multimode: 3.0dB/km at 850nm 1.0dB/km at 1300nm  Singlemode: 1.0dB/km at 1310/1550nm
<b>Maximum connector insertion loss:</b>	Multimode: 0.50dB (Standard IL) 0.35dB (Optimized IL) 0.25dB (Ultra IL)  Singlemode: 0.75dB
<b>Minimum connector return loss:</b>	Multimode: OM3: 26dB OM4: 26dB OM5: 26dB OM4+: 30dB  Singlemode: OS2: 55dB

## physical properties

<b>Cable outside diameter (OD):</b>	8F – 3.0mm 12F – 3.0mm 24F – 3.6mm
<b>Minimum bend radius:</b>	Under load: 20 x cable OD Static: 10 x cable OD
<b>Cable tensile strength:</b>	220N
<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 -40°F to 158°F
<b>Installation temperature:</b>	0°C to 40°C 32°F to 104°F
<b>Operating temperature:</b>	0°C to 70°C 32°F to 158°F

## standards

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

# MPO Interconnect Cable Assemblies

## part number configurator

CHARACTER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
EXAMPLE	F	R	X	T	P	7	7	Y	0	0	1	F	0	3	0

### 1 – Fiber

F = Fiber

### 2 – Cable Type

R = Indoor, round

### 3 – Fiber Type

9 = OS2 Singlemode 9/125µm  
 X = OM3 50/125µm  
 Z = OM4 50/125µm  
 W = OM5 50/125µm  
 S = OM4+ 50/125µm

### 4 – Fiber Count

8 = 8 fibers  
 T = 12 fibers  
 U = 24 fibers

### 5 – Jacket Type

P = Plenum (OFNP)  
 L = LSZH  
 C = LSZH, Euroclass Cca (s1a-d1-a1)

### 6 – Connector Type (End A)

G = MPO-8 Female  
 H = MPO-8 Male  
 5 = MPO Female  
 6 = MPO Male  
 7 = PanMPO™ Female  
 8 = PanMPO™ Male  
 E = MPO-24 Female  
 F = MPO-24 Male

### 7 – Connector Type (End B)

G = MPO-8 Female  
 H = MPO-8 Male  
 5 = MPO Female  
 6 = MPO Male  
 7 = PanMPO™ Female  
 8 = PanMPO™ Male  
 E = MPO-24 Female  
 F = MPO-24 Male

### 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  
 L = Method B, Ultra IL

### 9 – 11 – Serial

See Table Below

### 12 – Unit of Measure

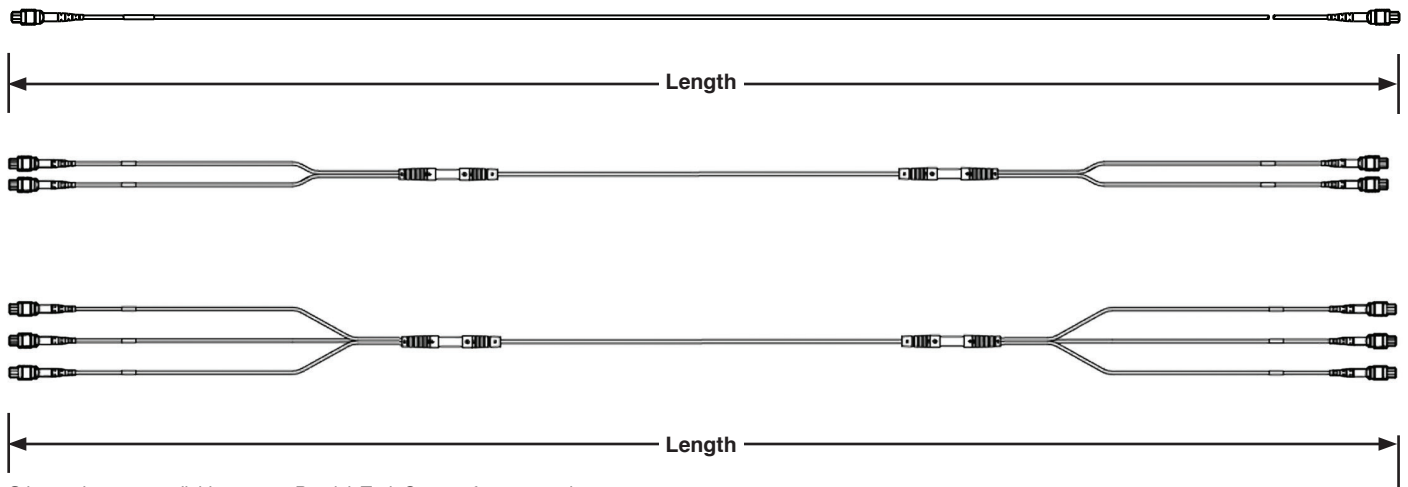
F = Feet  
 M = Meters

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

1 – 300 Feet  
 0.5 – 100 Meters

Serial	Breakout – End A	Breakout – End A
001	None	None
002	24-inch (60 cm)	24-inch (60 cm)
003	None	24-inch (60 cm)

## QuickNet™ MPO Interconnect Round Cable Assembly Detail



Other options are available; contact Panduit Tech Support for part number.

### 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**®

© 2021 Panduit Corp.  
 ALL RIGHTS RESERVED.  
 FBSP201--WW-ENG  
 4/2021