PanMPO[™] and MPO Round Harness Cable Assemblies



technical information

PanMPO™ and MPO Round Harness Cable Assemblies are pre-terminated 8 or 12-fiber cable assemblies. The unique design of the PanMPO™ Connector allows for rapid gender and polarity change in the field and enables a seamless, standards-compliant migration from duplex based applications (e.g. 10G Ethernet) to parallel optics based applications (e.g. 40/100G Ethernet). LC push-pull connectors reduce cable density by 40% and allow easy removal in high density installation. All cable assemblies are factory terminated and tested to deliver verified optical performance and reliability for improved network integrity.



application

Connect multiple MPO-based infrastructure components to LC-based components, such as LAN switches, servers, patch panels, and zone distribution areas. Eight fiber, 4-to-1 conversion harnesses connect four 10G LCs to a single 40G MPO. 12-fiber breakout harnesses connect (6) LCs to (1) MPO using traditional fanout wiring.

construction

CONSTIUC	ble Optical Fiber Nonconductive Plenum (OFNP) Low Smoke Zero Halogen (LSZH)			
Cable type:	3.0mm round indoor			
Cable jacket ratings:	Plenum (OFNP)			
Fiber types:	OM3			
Connector types end 'A':	MPO female (Singlemode) MPO male (Singlemode) PanMPO™ female (Multimode) PanMPO™ male (Multimode)			
Fiber count:	8 = 8-fiber 12 = 12-fiber			
Jacket color:	OS2: Yellow OM3: Aqua OM4: Aqua			
Connector types end 'B':	LC Connector (Push-Pull) LC Duplex Connector			

physical properties

<u> </u>	
Cable outside diameter (OD):	3.0mm
Minimum bend radius:	30mm
Flex:	100 cycles at 4.9N
Twist:	10 cycles @15N
Cable retention strength:	50N
Connector durability:	500 mating cycles*

optical properties

Maximum cable attenuation:	Multimode:	3.5dB/km at 850nm, 1.5dB/km at 1300nm
Maximum connector insertion loss:	Standard MPO: Optimized MPO: Standard LC: Optimized LC:	0.50dB 0.35dB 0.25dB 0.15dB
Minimum connector Return Loss:	Singlemode: Multimode:	55dB minimum 26dB minimum

environmental properties

Operating temperature:	0°C to 60°C				
Storage and shipping temperature:	-40°C to 70°C				
Installation temperature:	0°C to 60°C				

standards

Meets or exceeds ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIA/EIA-604-10 (FOCIS-10), TIA/EIA-568-C.1

RoHS Compliant

^{*}With proper cleaning and inspection

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part number

Example: FZTRP8QQSSNF003 = Fiber OM4, 12-fiber, round, plenum rated, PanMPO male to LC duplex LC harness with 61cm equal breakout, standard IL, no pulling eye, 3 feet

CHARACTER EXAMPLE



1

F













10 S 11 N 12 F 13

14 0

15 3

1 - Fiber Product

F = Fiber

2 - Fiber Type

9 = Singlemode

X = OM3

Z = OM4

3 - Fiber Count

T = 12-fiber

8 = 8-fiber

4 - Cable Type

R = Round

5 - Jacket Type

L = Low Smoke Zero Halogen (LSZH)

P = Optical Fiber Nonconductive Plenum (OFNP)

6 - Connector Type End "A"

6

8

- 5 = Singlemode MPO Female
- 6 = Singlemode MPO Male
- 7 = Mulitmode PanMPO™ Female
- 8 = Multimode PanMPO™ Male

7 - Connector Variant

N = No variant

8 - Connector Type End "B"

Q = Push/Pull Duplex LC L = LC Duplex

9 - Connector Variant

S = 24-inch (61 cm)

10- Performance/Construction

- S = Standard IL / Standard Fanout (Singlemode)
- O = Optimized IL / Standard Fanout (Multimode)

- Q = Standard IL / 4-to-1 Conversion (Singlemode)
- V = Optimized IL / 4-to-1 Conversion (Multimode
- N = Ultra Low IL/Standard Fanout (OM4 Only)

11 - Other

N = No variant

12 - Unit of Length

M = Meters

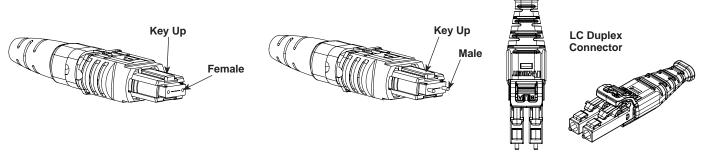
F = Feet

13, 14, 15 - Length

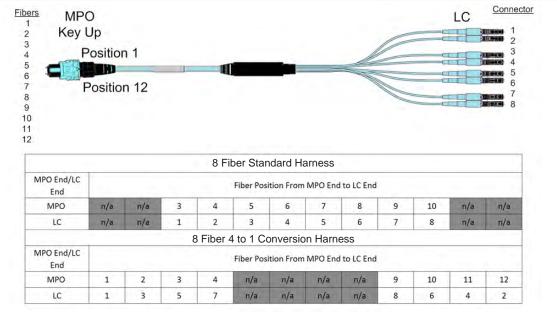
Meters: 001 to 010, 1.5, 2.5, 3.5, 4.5

Feet: 003 to 030

harness assembly detail



8 Fiber Harness



PanMPO™ and MPO Round Harness Cable Assemblies

12 Fiber Harness



				12 Fi	ber Sta	ndard H	larness					
MPO End/LC End		Fiber Position From MPO End to LC End										
MPO	1	2	3	4	5	6	7	8	9	10	11	12
LC	1	2	3	4	5	6	7	8	9	10	11	12

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