

specifications

4-to-1 Round Harness Cable Assemblies are pre-terminated 8-fiber cable assemblies that allow for standards-compliant migration from duplex based applications (e.g. 10G Ethernet) to parallel optics based applications (e.g. 40/100G Ethernet). As well as to connect to a SAN switch or storage array at 8/16/32G speeds. All cable assemblies are factory terminated and tested to deliver verified optical performance and reliability for improved network integrity.



applications

Connect a single MPO-based port to four LC-based components, such as LAN or SAN switches, and servers. Supports 40G to 4x10G, 100G to 4x25G, 400G to 4x100G or 128G to 4x32G.

construction

Cable type:	3.0mm round indoor
Cable jacket rating:	Optical Fiber Nonconductive Plenum (OFNP), Low Smoke Zero Halogen (LSZH)
Fiber types:	OM4
Connector types end 'A':	MPO female PanMPO female
Connector types end 'B':	LC Duplex Connector
Fiber count:	8 = 8-Fiber
Jacket color:	Aqua

optical properties

Maximum cable attenuation:	Multimode:	3.5dB/km at 850nm
		1.5dB/km at 1300nm
Maximum connector insertion loss:	Standard MPO:	0.50dB
	Optimized MPO:	0.35dB
	Standard LC:	0.25dB
	Optimized LC:	0.15dB
Maximum connector return loss:	Multimode:	26dB minimum

*With proper cleaning and inspection

physical & mechanical properties

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

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
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RoHS Compliant

MPO 4-to-1 Harness Cable Assemblies

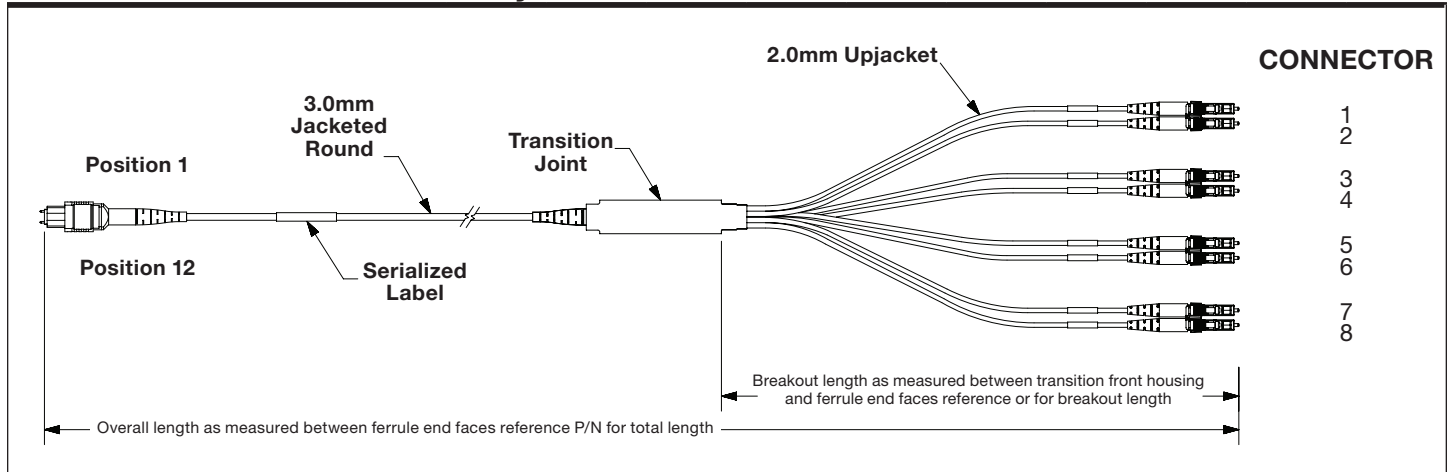
part number

Example: FZTRP5NLSQNM003 = Fiber OM4, 8-Fiber, round, plenum rated, MPO female to LC duplex harness with 24in equal breakout, Standard IL, No Pulling Eye, 3 Meters

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	F	Z	8	R	P	5	N	L	S	Q	N	M	0	0	3

- | | | |
|---|---|---|
| <p>1 – Fiber
F = Fiber</p> <p>2 – Fiber Type
Z = OM4</p> <p>3 – Fiber Count
8 = 8-Fiber</p> <p>4 – Cable Type
R = Round</p> <p>5 – Jacket Type
L = Low Smoke Zero Halogen (LSZH)
P = Nonconductive Plenum (OFNP)</p> | <p>6 – Connector Type End “A”
5 = MPO female
7 = PanMPO female</p> <p>7 – Connector Variant
N = No variant</p> <p>8 – Connector Type End “B”
L = LC Duplex</p> <p>9 – Connector Variant
S = 24 inch (61cm) equal breakout</p> | <p>10 – Construction/Performance
Q = 4-to-1 Conversion</p> <p>11 – Other
N = No variant</p> <p>12 – Unit of Length
M = Meters</p> <p>13, 14, 15 – Cable Assembly Length
Meters: 001-030</p> |
|---|---|---|

harness cable assembly detail



8F - 4 to 1 Conversion Harness

MPO End/LC End	Fiber Position from MPO End to LC End											
MPO	1	2	3	4	n/a	n/a	n/a	n/a	9	10	11	12
LC	1	3	5	7	n/a	n/a	n/a	n/a	8	6	4	2

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