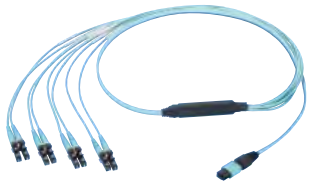
QuickNet™ QSFP Harness Cable Assemblies

PANDUIT®

SPECIFICATION SHEET

technical information

To meet the needs for fiber cable plant migration from 10 to 40 GbE, Panduit offers QSFP+ to Four SFP+ Fiber Harness Breakout Cable Assemblies. As part of the Panduit High Speed Data Transport (HSDT) solution, these passive fiber cables provide a cost-effective solution for interconnecting high speed 40 GbE switches equipped with QSFP+ modular transceivers to existing 10 GbE switches equipped with SFP+ modulars.



The MPO end is wired as four separate 10 Gb/s transmit and receive fibers per the QSFP+ MSA, which are connected to four 10 Gb/s LC connector ends. The four 10 Gb/s LC connector ends can be directly attached to co-located switch gear or connected to an existing LC-based structured cabling system to allow for distribution to different locations in the data center.

application

Interconnection of QSFP+ modular transceiver ports in 40 GE switches with multiple SFP+ modular ports in 10 GE switches.

construction

Cable type:	Indoor flat ribbon
Cable jacket ratings:	Plenum OFNP Low Smoke Zero Halogen (LSZH)
Fiber types:	Multimode: OM3 50/125µm OM4 50/125µm
Connector types, end 'A':	MPO female MPO male
Fiber count:	8
Jacket color:	OM3: Aqua OM4: Aqua
Connector types, end 'B':	LC duplex

physical properties

Cable outside diameter (OD):	2.5 x 5mm
Minimum bend radius:	20 x Cable OD (installation)
Cable tensile strength:	660N
Cable compressive load:	35N/cm
Cable flex:	25 cycles
Cable twist:	10 cycles
Connector cable retention:	50N
Connector durability-singlemode:	MPO – 500 mating cycles
Breakout outside diameter:	13.0mm
Bend radius installation:	Installation: 76.2mm Long term: 38.1mm
Cable tensile strength:	Installation: 440N Long term: 18N

optical properties

Maximum cable attenuation:	OM3 3.5dB/km at 850nm, 1.5dB/km at 1300nm OM4 3.5dB/km at 850nm, 1.5dB/km at 1300nm
Maximum connector insertion loss:	Per mated pair: 0.50dB typical, 0.75dB max.
Minimum connector return loss:	Multimode: OM3 26dB minimum OM4 26dB minimum

environmental properties

Operating temperature:	0°C to 50°C
Storage and shipping temperature:	-40°C to 65°C
Installation temperature:	0°C to 50°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: FZ8HP5NLSQNM001 = Fiber OM4, 8 fiber, flat ribbon, plenum rated, MPO female to LC duplex QSFP to SFP breakout with 61cm equal breakout, standard IL, no pulling eye, 1m

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

1 – Fiber Product
F = Fiber

2 – Fiber Type
X = OM3 50/125µm
Z = OM4 50/125µm

3 – Fiber Count
8 = 8-fibers

4 – Cable Type
H = Flat ribbon

5 – Jacket Type
L = Low Smoke Zero Halogen (LSZH)
P = Optical Fiber Non-conductive Plenum (OFNP)

6 – Connector Type End A
5 = MPO female
6 = MPO male

7 – Connector Variant
N = No variant

8 – Connector Type End B
L = LC duplex

9 – Connector Variant
D = 1m equal breakout
S = 61cm equal breakout

10 – Construction/Performance
Q = Std performance/std polarity MPO to discrete, QSFP to SFP breakout wiring

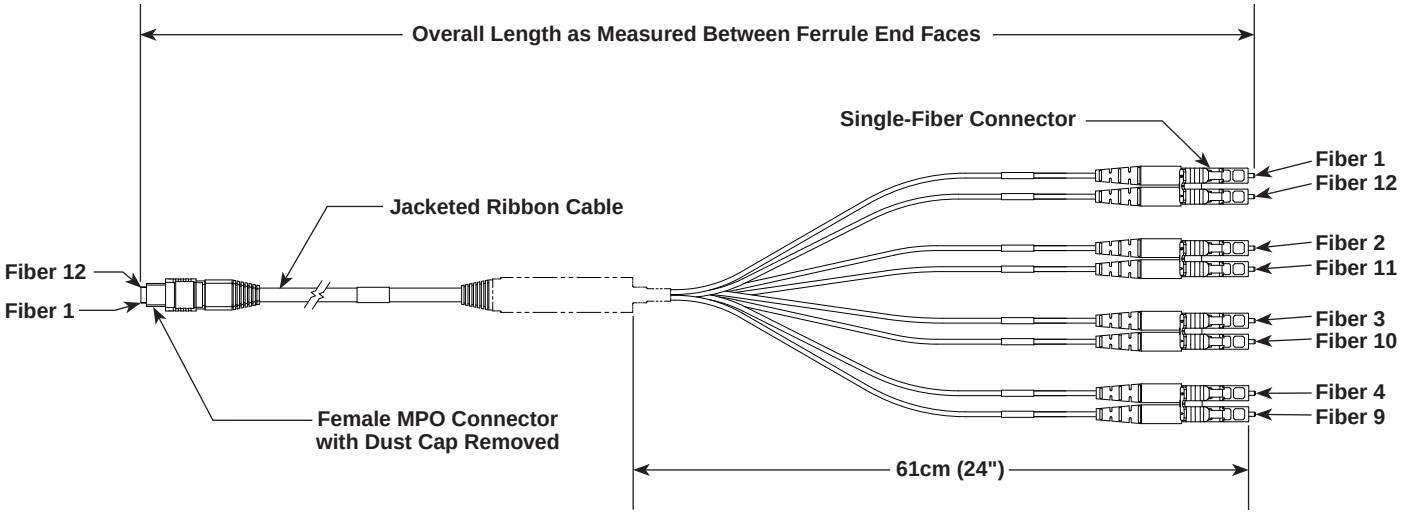
11 – Other
N = No variant

12 – Unit of Length
F = Feet
M = Meters

13, 14, 15 – Length
1 – 5m
3 – 15 feet

Other options are available as follows:
Fiber Type: OM1 62.5/125, OM2 50/125, OM4+ 50/125 Sig Core
Connector Variant: 46cm (18") equal breakout, 76cm (30") equal breakout, 91cm (36") equal breakout

harness assembly detail



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