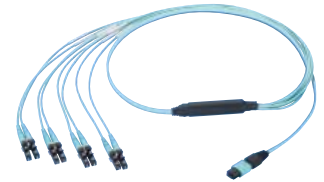


## technical information

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

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

## physical properties

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

## optical properties

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

## environmental properties

<b>Operating temperature:</b>	0°C to 50°C
<b>Storage and shipping temperature:</b>	-40°C to 65°C
<b>Installation temperature:</b>	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

# QuickNet™ QSFP Harness Cable Assemblies

## 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

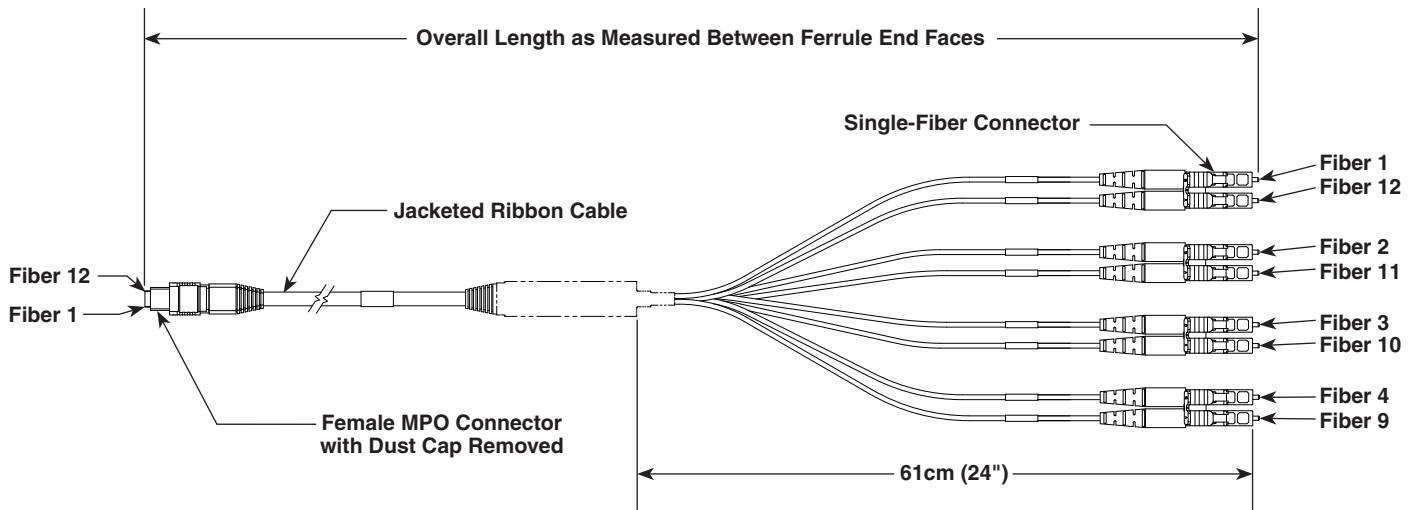
3 – 15 feet

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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