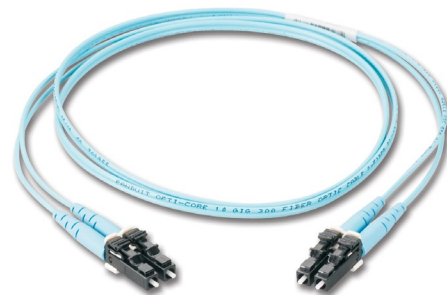


# Opti-Core® Fiber Optic Patch Cords and Pigtails

## technical information

The Opti-Core® patch cords support network applications in main, horizontal and equipment distribution areas and are available in riser (OFNR) and low smoke zero halogen (LSZH) rated jacket materials. In addition, pre-terminated fiber optic pigtails support fusion splice field termination applications.

Both fiber optic patch cords and pigtails are available in OM1, OM3, OM4, OM4+, OM5 and OS2 fiber types to meet the demands of Gigabit Ethernet, 10 Gigabit Ethernet and high speed Fibre Channel.



## application

Provide interconnect and cross-connect of applications in entrance facilities, telecommunications rooms, data centers, at the desk and network applications to interconnect pre-terminated cassettes in main distribution, horizontal distribution, and equipment distribution areas.

## construction

**Fiber count:** Simplex (1-fiber) jacketed  
Duplex (2-fiber) jacketed zipcord  
Tight buffered

**Cable jacket ratings:** Riser (OFNR)  
Low Smoke Zero Halogen (LSZH)

**Fiber types:** Singlemode: OS2  
Multimode: OM1  
OM3  
OM4  
OM4+ Signature Core™  
OM5

**Connector types end 'A':** Simplex or duplex LC, SC

**Jacket color:** OS2: Yellow  
OM1: Orange  
OM3: Aqua  
OM4: Aqua  
OM4+ Signature Core™: Aqua  
OM5: Lime Green  
Buffered fiber (pigtail): Blue

**Connector types end 'B':** Simplex or duplex LC, SC

Note: OM4+ Signature Core™ and OM5 only support a duplex zipcord with duplex LC connectors.

## optical properties

**Connector insertion loss (IL):** Standard: 0.15 dB max.  
(OM1, OM3, OM4, OM5)  
0.25dB max. (LC OS2)  
0.50dB max. (SC OS2)  
Ultra: 0.10 dB max  
(OM4, OM4+, OM5)

**Connector return loss (RL):** 20dB min. (OM1)  
26dB min.  
(OM3, OM4, OM4+, OM5)  
55dB min. (OS2)

## physical properties

**Cable outside diameter (OD):** 1.6mm duplex  
3mm simplex  
900 micron

**Connector cable retention:** 50 N @ 0°C  
19.4 N @ 90°C

**Connector durability:** 500 cycles

**Bend radius, minimum:** 900µm: 9mm  
1.6mm: 16mm  
3mm: 29mm

## environmental properties

**Storage and shipping temperature:** -40°C to 70°C

**Operating and installation temperature:** -10°C to 60°C

## standards

<b>Meets or exceeds</b>	LSZH IEC 60332-1-2 IEC 60332-3-24 IEC 60754-1 IEC 60754-2 IEC 61034-2 TIA-604-3 (FOCIS-3) TIA-604-5 (FOCIS-10) TIA 568.3-D IEC 60793-2-10 Ed 6 IEC11801-1 Ed 3 OM5 ANSI/TIA-492AAAE
<b>Restriction of Hazardous Substances (RoHS) Compliance:</b>	All patch cord components meet the requirements of Directive 2002/95/EC.

Note: OM4+ Signature Core™ and OM5 fibers are 100% standards compliant meeting all OM3 and OM4 specifications. The actual supported reach also depends on the electrical and optical characteristics of the VCSEL transceiver.

OM4+ Signature Core™ provides on average 20% longer reach than OM4 defined standard for all applications using Ethernet, Fibre Channel and Cisco BiDi technologies.

OM5 includes additional bandwidth characterization at 953nm to support extended distances when using SWDM.

For more information, visit [www.panduit.com/signature-core](http://www.panduit.com/signature-core)

# Opti-Core® Fiber Optic Patch Cords and Pigtails

## part number

Example: FZ2ERLNSNSNM005 = Fiber OM4, 2-fiber, 1.6mm cable, riser rated, LC duplex to SC duplex, Standard IL, 5 meters

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

### 1 – Fiber Product

F = Fiber

### 2 – Fiber Type

6 = OM1

X = OM3

Z = OM4

9 = OS2

S = OM4+ Signature Core™\*

W = OM5\*

### 3 – Fiber Count

1 = 1-fiber

2 = 2-fibers

### 4 – Cable Type

B = 900µm buffer

E = 1.6mm

3 = 3.0mm (Only for SC to SC cords)

### 5 – Jacket Type

L = LSZH (Low Smoke Zero Halogen)

N = (No Jacket) 900µm Buffered Fiber

R = OFNR (Riser)

### 6 – Connector Type – End A

1 = LC

2 = ST

3 = SC

L = LC duplex

S = SC duplex

### 7 – Connector Variant

N = No variant

### 8 – Connector Type – End B

1 = LC

2 = ST

3 = SC

L = LC duplex

N = None; pigtail

S = SC duplex

### 9 – Connector Variant

N = No variant

### 10 – Performance/Construction

S = Standard IL (A-B)

N = Ultra IL (A-B)

### 11 – Other

N = No variant

### 12 – Unit of Length

M = Meters

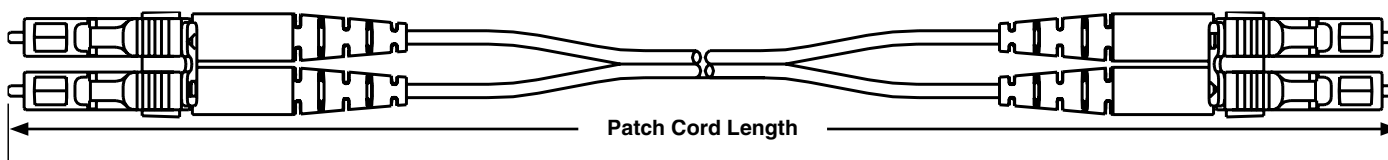
### 13, 14, 15 – Length

0.5-050

Note: For hybrid cords, the SC connector is always on End B.

\* LC to LC only

## fiber optic patch cord detail



Other options are available as follows; contact Panduit for part number:

Connector Type: LC/APC, SC/APC, ST, LC Keyed

Performance/Construction: Standard IL – Flipped (A-A)

Other: Non-standard colored cable



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