**Opti-Core® Fiber Optic Patch Cords and Pigtails**

**technical information**

Fiber optic patch cords and pigtails provide interconnect and cross-connect of applications over installations in entrance facilities, telecommunications rooms, data centers and at the desk. 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 to comply with local cabling ordinances. Pre-terminated fiber optic pigtails support fusion splice field termination applications. Fiber optic patch cords and pigtails are available in OM4, OM3, OM2, OM1, or OS1/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) per:
IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2 |
| Fiber types: | Singlemode: OS1/OS2 9/125µm
Multimode: OM1 62.5/125µm
OM2 50/125µm
OM3 50/125µm
OM4 50/125µm |
| Connector types end ‘A’: | Simplex or duplex LC, SC |
| Jacket color: | OS1/OS2: Yellow
OM1: Orange
OM2: Orange
OM3: Aqua
OM4: Aqua
Buffered fiber (pigtail): Blue |
| Connector types end ‘B’: | Simplex or duplex LC, SC |

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

**physical properties**

| Cable outside diameter (OD): | 1.6mm duplex
3mm simplex
900 micron |
| Connector cable retention: | 50N @ 0°C
19.4N @ 90°C |
| Connector durability: | 500 cycles |
| Bend radius, minimum: | 1.6mm: 16mm
3mm: 29mm |

**optical properties**

| Connector insertion loss: | 0.25dB max. (OM1, OM2, standard OM3, OM4)
0.35dB max. (LC singlemode)
0.50dB max. (SC singlemode) |
| Connector return loss: | 20dB min. (OM1 and OM2)
26dB min. (OM3 and OM4)
55dB min. (OS1/OS2) |

**environmental properties**

| Storage and shipping temperature: | -40°C to 70°C |
| Operating and installation temperature: | Riser: -20°C to 70°C
Plenum: 0°C to 60°C |

**standards**

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

Restriction of Hazardous Substances (RoHS) Compliance: All patch cord components meet the requirements of Directive 2002/95/EC.
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

<table>
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<tr>
<th>Character</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tr>
<td>Example</td>
<td>F</td>
<td>Z</td>
<td>2</td>
<td>E</td>
<td>R</td>
<td>L</td>
<td>N</td>
<td>S</td>
<td>N</td>
<td>S</td>
<td>N</td>
<td>M</td>
<td>0</td>
<td>0</td>
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1 – Fiber Product
- F = Fiber

2 – Fiber Type
- 6 = OM1 62.5/125µm
- 5 = OM2 50/125µm
- X = OM3 50/125µm
- Z = OM4 50/125µm
- 9 = OS1/OS2 9/125µm

3 – Fiber Count
- 1 = 1 fiber
- 2 = 2 fibers

4 – Cable Type
- B = 900µm buffer
- E = 1.6mm
- 3 = 3.0mm (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
- 3 = SC
- L = LC duplex
- S = SC duplex

7 – Connector Variant
- N = No variant

8 – Connector Type - End B
- 1 = LC
- 3 = SC
- L = LC duplex
- N = None; pigtail
- S = SC duplex

9 – Connector Variant
- N = No variant

10 – Performance/Construction
- S = Standard IL – Straight thru (A-B)

11 – Other
- N = No variant

12 – Unit of Length
- M = Meters

13, 14, 15 – Length
- 001-050

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

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**Fiber Optic Patch Cord Detail**

Other options are available as follows; contact Panduit for part number:
- Fiber Type: OM4+(50/125µm Signature Core™)
- Cable Type: 3.0mm
- Jacket Type: OFNG (General Rated)
- Performance/Construction: Optimized IL – Straight Thru (A-B), Optimized IL – Flipped (A-A), Standard IL – Flipped (A-A)
- Other: Non-standard colored cable

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**Worldwide Subsidiaries and Sales Offices**

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<td>800.777.3300</td>
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