Opti-Core® Fiber Optic Patch Cords and Pigtails – Riser (OFNR) and Plenum (OFNP) Rated

**Specifications**

RoHS compliant fiber optic patch cords shall include simplex or duplex LC, SC, ST or MT-RJ connectors, or FJ or keyed FJ plugs or jacks on both ends. RoHS compliant fiber optic pigtails shall include simplex or duplex LC, SC, ST, or MT-RJ connectors, or FJ or keyed FJ plugs or jacks on one end and open (unterminated) on the other end. Patch cords and pigtails shall include laser optimized OM4, OM3 fiber or OM2, OM1 or OS1/OS2 fiber in 900µm tight-buffered fiber, 1.6mm or 3.0mm simplex or duplex zipcord jacketed cable, or 1.8mm duplex zipcord jacketed cable. Jacketed cable shall be compliant with UL 1666 (OFNR) or NFPA 262 (OFNP) flame ratings. Patch cords and pigtails shall meet or exceed requirements of TIA/EIA-568-C.3. The fiber connectors shall be FOCIS compliant or compatible, and the excess requirements of TIA/EIA-455-21A for 500 mating cycles.

**Technical Information**

**Standards requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>All connectors exceed TIA/EIA-455-21A: 500 mating cycles</td>
<td>Compliant with: TIA/EIA-568-C.3 and ISO/IEC 11801</td>
</tr>
<tr>
<td></td>
<td>IEC-61754-7 (International)</td>
</tr>
<tr>
<td></td>
<td>TIA-604-5 (FOCIS-5)</td>
</tr>
<tr>
<td></td>
<td>UL 1666 (OFNR) or NFPA 262 (OFNP) flame ratings</td>
</tr>
</tbody>
</table>

**Insertion loss:**

Per connection: 0.1dB typical, 0.25dB max (OM1, OM2 and Standard OM3, OM4)

0.15dB max (optimized OM3 and Optimized OM4) for SC and LC

0.30dB max for other connectivity

0.50dB max. (MT-RJ multimode)

0.25dB typical, 0.75dB max. (singlemode)

0.35dB max. (LC singlemode)

**Return loss:**

20dB min. (multimode); 26dB min. (10Gig™ multimode); 55dB min. (singlemode)

**Key features and benefits**

- Factory terminated and 100% tested for insertion loss (all) and return loss (10Gig™ and SM)
- Assures high performance for increased up-time and lower cost of ownership
- Riser or plenum rated jacket
- Meets UL 1666 (OFNR) or NFPA 262 (OFNP) flame ratings for standard compliant safety
- Singlemode endface geometry 100% factory inspected
- Every singlemode endface is inspected in compliance with Telcordia GR-326-CORE, Issue 3 requirements to assure high performance
- Singlemode endfaces UPC polished
- (55dB min. return loss)
- Ensure a high quality endface for higher return loss to meet application requirements
- Singlemode patch cords include low water peak fiber
- Eliminates high attenuation in the E-band and allows operation over the entire 1260nm – 1625nm wavelength range; excellent for CWDM and DWDM applications
- Certified 10 GbE performance
- 10Gig™ Patch Cords and Pigtails are tested per IEEE 802.3ae
- 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300m for OM3 and up to 550 meters for OM4 at 850nm to assure high performance and reliability
- Test data supplied with each patch cord and pigtail
- Establishes a performance reference to streamline maintenance and troubleshooting
- Q.C. identification label
- Quality control reference provides lifetime traceability of test data

**Applications**

Opti-Core® 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. They support network applications to interconnect pre-terminated cassettes in main distribution, horizontal distribution and equipment distribution areas. These riser (OFNR) and plenum (OFNP) rated patch cords and pigtails support installations that require these flame ratings in specific environments.

www.panduit.com
**Fiber Optic Patch Cord Detail**

**Ordering Information**

Example:

<table>
<thead>
<tr>
<th>F</th>
<th>X</th>
<th>E</th>
<th>10</th>
<th>10</th>
<th>M</th>
<th>5</th>
<th>7</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

FXE10-10M5Y = Opti-Core® 10Gig™ LC to LC Duplex Fiber Optic Patch Cord, OM3 – 10 GbE 50/125µm multimode riser rated cable, LC duplex connectors on each end, and 5m in length.

2 **Fiber Type and Jacket Flame Rating**

* Riser (OFNR) rated cable (Y at end):
  - Z = OM4 – 10Gig 50/125µm
  - ZO = Optimized OM4 – 10Gig™ 50/125µm
  - X = OM3 – 10Gig 50/125µm
  - XO = Optimized OM3 – 10Gig™ 50/125µm
  - 5 = OM2 – 50/125µm,
  - 6 = OM1 – 62.5/125µm, or
  - 9 = OS1 – 9/125µm

* Plenum (OFNP) rated cable (no Y at end):
  - ZP = OM4 – 10Gig 500/125µm
  - ZOP = Optimized OM4 – 10Gig™ 50/125µm
  - XP = OM3 – 10Gig 50/125µm
  - XOP = Optimized OM3 – 10Gig™ 50/125µm
  - 5P = OM2 – 50/125µm,
  - 6P = OM1 – 62.5/125µm, or
  - 9P = OS1 – 9/125µm

3 **Cable Type**

- B = 900µm tight-buffered fiber
- D = 3mm duplex zipcord jacketed cable
- S = 3mm simplex jacketed cable
- E = 1.6mm duplex zipcord jacketed cable
- F = 1.6mm simplex jacketed cable
- Z = 1.8mm duplex zipcord jacketed cable

**Note:** Not all cable types and connector combinations are available. Contact customer service for availability and other lengths.

4 and 5 **Connector Styles**

Select one style for each end, listing lower number first, number before letter, or 6J or 6P first.

- 2 = ST, 3 = SC, 6J = FJ® Jack Module,
- 6P = FJ® Plug, 10 = LC, 12 = MT-RJ and
- N = Pigtail

6 **Unit of Measure (M = Meters)**

7 **Length**

- Patch cords:
  - 1m – 10m, 15m, 20m, 25m and 30m lengths.
- Pigtailed:
  - 1m, 2m, and 3m lengths.

8 **Riser RoHS Compliance**

Riser patch cords and pigtails end with a Y to identify RoHS compliance. Plenum and MT-RJ patch cords are RoHS compliant but do not end with a Y.