Opti-Core™ Fibre Optic Patch Cords – Low Smoke Zero Halogen (LSZH) Rated

PANDUIT™

specifications

RoHS compliant fibre optic patch cords include simplex or duplex LC, SC, ST or MT-RJ connectors, or FJ plugs on both ends. Patch cords include laser optimised OM3 fibre or OM1, OM2 or OS1 fibre in 1.6mm or 3.0mm simplex or duplex zipcord jacketed cable, or 1.8mm duplex zipcord jacketed cable. Jacketed cable is compliant with IEC-60332 (LSZH) flame ratings. Patch cords meet or exceed requirements of ISO/IEC 11801, and the fibre connectors are IEC-61754 compliant or compatible.

technical information

Standards: requirements:	Compatible or compliant with:	ISO/IEC 11801 and TIA/EIA-568-B.3 IEC-61754-7 (International) IEC-60332 (LSZH) flame rating
Insertion loss:	Per connection:	0.10dB typical, 0.30dB max. (multimode), 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
Low smoke zero halogen rated jacket	Meets IEC-60332 (LSZH) flame rating 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 endface 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 fibre	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 at 850nm to assure high performance and reliability
Test data supplied with each patch cord	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™ Fibre Optic Patch Cords provide interconnect and cross-connect of applications over installations in entrance facilities, telecommunications rooms, data centres and at the desk. They support network applications to interconnect pre-terminated cassettes in main distribution, horizontal distribution, and equipment distribution areas. These low smoke zero halogen (LSZH) rated patch cords support installations that require these flame ratings in specific environments. Opti-Core™ Fibre Optic Patch Cords are available in OM1, OM2, OM3 and OS1/OS2 fibre types to meet the demands of Gigabit Ethernet, 10 Gigabit Ethernet and high speed Fibre Channel systems while maintaining compatibility with Ethernet, Fast Ethernet, FDDI and ATM. If application requires riser (OFNR) or Plenum (OFNP) rated fibre optic patch cords or pigtails, refer to Opti-Core™ Fibre Optic Patch Cords or Pigtails – Riser (OFNR) and Plenum (OFNP) Rated specification sheet.

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Opti-Core™ Low Smoke Zero Halogen (LSZH) Fibre Optic Patch Cords

Duplex LC to LC 1.6mm jacketed cable:	F^LE10-10M‡
Duplex SC to SC 3mm jacketed cable:	F^LD3-3M‡
Duplex ST to ST 3mm jacketed cable:	F^LD2-2M‡
Duplex MT-RJ to MT-RJ 1.8mm jacketed cable:	F^LZ12-12M‡

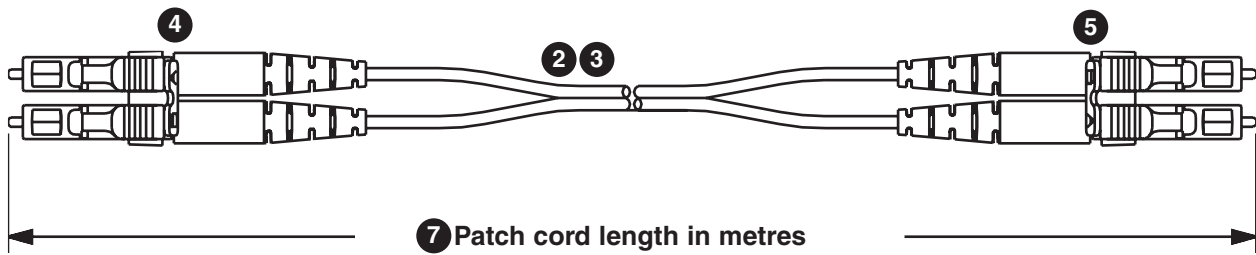### Opti-Core™ Low Smoke Zero Halogen (LSZH) Hybrid Fibre Optic Patch Cords

Duplex SC to LC 1.6mm jacketed cable:	F^LE3-10M‡
Duplex ST to LC 1.6mm jacketed cable:	F^LE2-10M‡
Duplex ST to SC 3mm jacketed cable:	F^LD2-3M‡
Duplex SC to MT-RJ 1.8mm jacketed cable:	F^LZ3-12M‡
Duplex ST to MT-RJ 1.8mm jacketed cable:	F^LZ2-12M‡
Duplex FJ™ Plug to MT-RJ 1.8mm jacketed cable:	F^LZ6P-12M‡

Substitute for fibre type: X (OM3 – 10Gig™ 50/125μm), 5 (OM2 – 50/125μm), 6 (OM1 – 62.5/125μm) and 9 (OS1/OS2 – 9/125μm). MT-RJ patch cords only available in OM1 or OM2 fibre.

‡Substitute for length in metres: Patch cords 1m – 10m, 15m, 20m, 25m or 30m; pigtails – 1, 2, or 3. Contact Customer Service for other available lengths.

Fibre Optic Patch Cord Detail

❼ Patch cord length in metres

Ordering Information

Example:

F	XL	E	10	—	10	M	5	Y
1	2	3	4	5	6	7	8

FXLE10-10M5 = Opti-Core™ 10Gig™ LC to LC Duplex Fibre Optic Patch Cord, OM3 – 10Gig™ 50/125µm multimode low smoke zero halogen rated cable, LC duplex connectors on each end, and 5m in length.

❷ Fibre Type and Jacket Flame Rating

Low Smoke Zero Halogen (LSZH) rated cable:
XL = OM3 – 10Gig™ 50/125µm,
5L = OM2 – 50/125µm,
6L = OM1 – 62.5/125µm or
9L = OS1/OS2 – 9/125µm

❸ Cable Type

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

❹ and ❺ Connector Styles

Select one style for each end, listing lower number first, or 6P first.
2 = ST, 3 = SC, 6P = FJ™ Plug, 10 = LC,
12 = MT-RJ or 16 = E-2000

❻ Unit of Measure (M = Metres)

❼ Length

Patch Cords: 1-10, 15, 20, 25 and 30 metre lengths.
Pigtails: 1, 2, and 3 metre lengths.

❽ RoHS Compliance

All patch cords and pigtails are RoHS compliant. Some pigtails designate this with a Y.

Note: Not all cable types and connector combinations are available. Contact customer service for availability and other lengths.
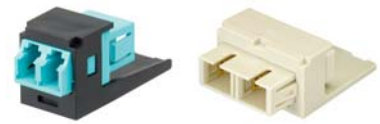
QuickNet™ Pre-Terminated MTP* Cassettes	Opticom™ Fibre Adapter Panels (FAPs)	Mini-Com™ Fibre Optic Adapter Modules

| FC^-24-10Y | FC^-12-3Y | FAP6WAQDLCZ | CMDJAQLCZBL | CMDEISCEI |

^Substitute for fibre type: X(OM3 – 10Gig™ 50/125µm), 5(OM2 – 50/125µm), 6(OM1 – 62.5/125µm) and 9(OS1 – 9/125µm).
*MTP is a registered trademark of US Conec Ltd.

For more information
Visit us at www.panduit.com

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