Signature Core[™] Push-Pull LC Duplex Fiber Optic Patch Cords



general information

Signature Core[™] Push-Pull LC Duplex Fiber Optic Patch Cords allow for rapid deployment of high-density permanent links in a single assembly for data center applications requiring high bandwidth, extended reach, and extremely low insertion loss. Push-Pull LC Duplex Fiber Optic Patch Cords containing the custom push-pull strain relief boot and duplex clip, allow users easy accessibility in tight areas when deploying very high density LC patch fields in data center applications. They are available in riser (OFNR), plenum (OFNP), and low smoke zero halogen (LSZH) rated jacket materials to comply with local cabling ordinances.



technical information

Signature Core[™] Fiber is a modal and chromatic dispersion compensating multimode fiber designed for optimum performance with high-speed Vertical Cavity Surfacing Emitting Lasers (VCSEL) transceivers. The refractive index profile is engineered to correct for the interaction between modal and chromatic dispersion increasing the total channel bandwidth. Current industry standards for OM3 and OM4 fibers neglect this interaction and as a result, channel reach can be significantly limited for a large population of VCSEL transceivers.

Like OM3 and OM4 fiber types, the actual supported reach for Signature Core[™] Fiber depends on the electrical and optical characteristics of the VCSEL transceiver¹. Under worst-case conditions, Signature Core[™] Fiber will provide at least a 20% increase in reach over uncompensated OM4 fibers. Under nominal conditions, Signature Core[™] Fiber will support a 600m reach with 10GBASE-SR transceivers compared to a 400m maximum reach over OM4 as specified in IEEE 802.3². Applying the 20% minimum increase in reach for OM4 reach published in FC-PI-5 for Fibre Channel communication yields a reach of 225 meters with an 8G Fiber Channel transceiver (800-M5F-SN-I), and 150m with a 16G Fiber Channel transceiver (1 600-M5F-SN-I)³. Signature Core[™] Fiber is 100% standards compliant meeting all OM4 specifications, with an additional requirement for Differential Mode Delay (DMD) that compensates for modal and chromatic dispersion effects⁴.

application:

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

construction

Fiber count:	Duplex (2-fit	Duplex (2-fiber) jacketed zipcord	
Cable jacket ratings:	Riser (OFNF	Plenum (OFNP) Riser (OFNR) Low Smoke Zero Halogen (LSZH)	
Fiber types:	Multimode:	Signature Core [™] OM4+	
Connector types, End	f 'A': Duplex LC		
Connector types, End	<i>I 'B':</i> Duplex LC		
Jacket color:	Aqua		

optical properties

Connector insertion 0.10dB max loss:

Connector return loss: 26dB min

physical properties

Cable outside diameter (OD):	1.6mm duplex
Bend radius, minimum:	32mm
Bend radius, minimum (long term):	16mm
Connector cable retention:	50N (4.24 lb) @ 0°C (32°F) 19.4N (4.4 lb) @ 90°C (194°F)
Connector durability:	500 cycles
environmental nro	nerties

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Operating and	-10°C to 60°C
installation temperature:	(14°F to 140°F)

standards

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

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

¹ The actual channel reach of a laser optimized, multimode fiber (OM3, OM4, or Signature Core[™]) depends on the optical and electrical parameters of the VCSEL transceiver. For worst-case optical and electrical parameters, Signature Core[™] Fiber will provide at least 20% greater reach over standard un-compensated OM4 fiber. ² OM4 fiber was ratified in the IEEE802.3/D3.0 proceedings from Dec. 15, 2011, Table 52-6 with an Operating Range of 2m to 400m. ³ Reach values are a minimum.

⁴ Differential Mode Delay (DMD) is a metric defined in telecommunications industry association standard EIA/TIA 455-220-A, January 2003, which describes a method for measuring the modal dispersion of laser optimized multimode fiber.

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part number configurator

Example: FS2ERQNQNNNM005 = Fiber, OM4+, 2-fiber, 1.6mm cable, riser rated, LC push-pull connector to LC push-pull connector, ultra IL, 5 meters

Character123ExampleFS2	4 5 6 7 8 9 E R Q N Q N	10 11 12 13 14 15 N N M 0 0 5
 1 - Fiber Product F = Fiber 2 - Fiber Type S = OM4+ Signature Core[™] Fiber 3 - Fiber Count 2 = 2-fiber 4 - Cable Type E = 1.6mm 	 5 – Jacket Type L = Low Smoke Zero Halogen (LSZH) P = Optical Fiber Non-Conductive Plenum (OFNP) R = Optical Fiber Non-Conductive Riser (OFNR) 6 – Connector Type Q = LC push-pull connector 7 – Connector Variant N = No variant 8 – Connector Type Q = LC push-pull connector 	9 – Connector Variant N = No variant 10 – Performance/Construction N = 0.10dB -IL / A-B (Straight Through) 11 – Connector Variant N = No variant 12 – Unit of Length M = Meters 13, 14, 15 – Length 001 - 020m, 025m, 030m and 035m

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Other options are available as follows; contact Panduit for part number. Fiber type: OM4+ Signature Core[™] Performance/Construction: Ultra IL – Straight Through (A-B).

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