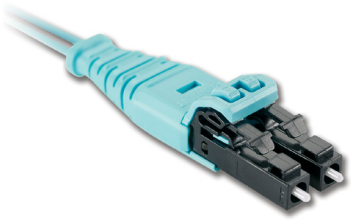
Opti-Core® Push-Pull LC Duplex Fiber Optic Patch Cords

PANDUIT®
SPECIFICATION SHEET

technical information

The Opti-Core® Push-Pull LC Duplex Fiber Optic Patch Cords contain a custom push-pull strain relief boot and duplex clip, which allows users easy accessibility when deploying very high density LC patch fields in data center applications.

These patch cords are available in both riser (OFNR) and low smoke zero halogen (LSZH) rated jacket materials along with OM1, OM3, OM4, OM4+ Signature Core™, OM5, and OS2 fiber types to meet the demands of today's high speed applications.



application

Provide interconnect and cross-connect of applications in entrance facilities, telecommunication 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:	Duplex (2-fiber) jacketed zipcord	
Cable jacket ratings:	Riser (OFNR) Low Smoke Zero Halogen (LSZH)	
Fiber types:	Singlemode: OS2/A2 (25G) Multimode: OM3 (40G) OM4 (100G) OM4+ (100G) OM5 (100G)	
Connector types, End 'A':	Duplex LC	
Connector types, End 'B':	Duplex LC	
Jacket color:	OS2: OM3: OM4: OM4+ Signature Core™: OM5:	Yellow Aqua Aqua Aqua Lime Green

optical properties

Connector insertion loss (IL):	Standard:	0.15dB max (OM3, OM4, OM5) 0.25dB (OS2)
	Ultra:	0.10dB max (OM4, OM4+, OM5)
Connector return loss (RL):		26dB min (Multimode fiber) 55dB min (Singlemode fiber)

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.

physical properties

Cable outside diameter (OD):	1.6mm duplex
Bend Radius (min):	16mm
Connector cable retention:	50 N @ 0°C 19.4 N @ 90°C
Connector durability:	500 cycles

environmental properties

Storage and shipping temperature:	-40°C to 70°C
Operating and installation temperature:	-10°C to 60°C

standards

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