

Opti-Core® LC Uniboot Pull-Boot Duplex Fibre Optic Patch Cords

technical information

The Opti-Core Pull-Boot LC Duplex Fiber Optic Patch Cords meet the high performance essential for today's high speed systems with a connector that allows easy polarity change in the field without any mechanical components that can be unfastened or misplaced. In addition, the 2.0mm, 2-fiber round unitary cable construction reduces cable volume by 50% making the patch cords ideal for reducing cable congestion in extremely high density patch fields. These patch cords are available in plenum (OFNP) or low smoke zero halogen (LSZH) rated jacket materials along with OM4, OM4+, OM5, and OS2 fiber types. The connectors are available in UPC (multimode and singlemode) and APC (singlemode only) end faces.



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) Round
Cable jacket ratings:	Plenum (OFNP) Low Smoke Zero Halogen (LSZH)
Fiber types:	Singlemode: OS2/A2 (25G) Multimode: OM4 (100G) OM4+ (100G) OM5 (100G)
Connector types, End 'A':	Duplex LC Uniboot
Connector types, End 'B':	Duplex LC Uniboot
Jacket color:	OS2: Yellow OM4: Aqua OM4+ Signature Core™: Aqua OM5: Lime

optical properties

Connector insertion loss (IL):	Optimized: 0.15dB max (OM4, OM4+, OM5) 0.25dB max (OS2) Ultra: 0.10dB max (OM4, OM4+, OM5)
Connector return loss (RL):	26dB min (Multimode fiber) 55dB min (Singlemode fiber) 65dB min (Singlemode fiber/APC)

physical properties

Cable outside diameter (OD):	2.0mm
Connector cable retention:	50 N @ 0°C 19.4 N @ 90°C
Connector durability:	500 cycles
Bend Radius, Min:	20mm

environmental properties

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

standards

Meets or exceeds	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, OS2 ITU-T G.657.A2
Restriction of Hazardous Substances (RoHS) Compliance:	All patch cord components meet the requirement of Directive 2011/65/EU

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.

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part number

Example: FZ2RLU1U1ONM005 = Fiber, OM4, 2-fiber, 2mm Round, LSZH, LC Uniboot to LC Uniboot, Optimized IL, 5 Meters

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	F	Z	2	R	L	U	1	U	1	O	N	M	0	0	5

1 – Fiber Product

F = Fiber

2 – Fiber Type

Z = OM4
S = OS4+ Signature Core
W = OM5
9 = OS2*

3 – Fiber Count

2 = 2-fibers

4 – Cable Type

R = Round 2.0mm

5 – Jacket Type

L = LSZH (Low Smoke Zero Halogen)
P = OFNP (Plenum)

6 – Connector Type – End A

U = LC Duplex Uniboot

7 – Connector Variant

1 = UPC
2 = APC Singlemode

8 – Connector Type

U = LC Duplex Uniboot

9 – Connector Variant

1 = UPC
2 = APC Singlemode

10 – Performance/Construction

O = Optimized IL (A-B)
N = Ultra IL (A-B)

11 – Connector Variant

N = No variant

12 – Unit of Length

M = Meters

13, 14, 15 – Length

001 - 050

changing polarity: lc duplex uniboot fiber optic patch cords

CHANGING POLARITY

WHEN DOTS ON HOUSING ARE MATCHING COLOR THE CONNECTOR INDICATES STRAIGHT THROUGH (A-B)

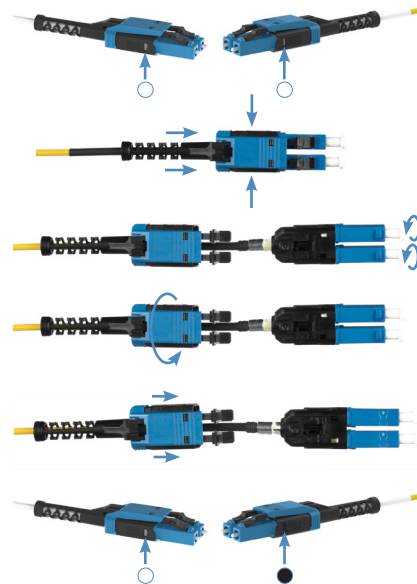
HOLD THE HOUSING AND PUSH THE BOOT FORWARD TOWARD THE CONNECTOR

ROTATE BOTH CONNECTORS 180°

ROTATE THE CONNECTOR BODY 180°

PUSH THE OUTER HOUSING FORWARD UNTIL IT CLICKS, LOCKING INTO POSITION

POLARITY IS CHANGED INTO PAIR FLIPPED (A-A) WHEN THE DOTS HAVE DIFFERENT COLORS



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