

## technical information

Panduit's Duplex LC Uniboot Pull-Boot connector gives you the option to change polarity with ease, it also has no loose pieces that could be dropped or lost when changing polarity. The LC Uniboot Pull-Boot Duplex fiber optic patch cords are constructed with a 2.0mm 2-fiber round unitary cable available in plenum (OFNP) or low smoke zero halogen (LSZH) rated jacket materials to meet local ordinances. By using the 2.0mm cable which reduces cable volume by 50% the LC Uniboot Pull-Boot fiber optic patch cords are ideal for reducing cabling congestion in extremely high density patch fields. These LC Uniboot patch cords are available in OM4+, OM4, and OS2 fiber types with high performance insertion loss essential for today's high speed systems requiring very low connector insertion loss. This series is available in UPC (multimode and singlemode) and APC (only singlemode) 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

|                                  |   |
|----------------------------------|---|
| <b>Fiber count:</b>              | 2 – Fiber Round                                       |
| <b>Cable jacket ratings:</b>     | Plenum (OFNP)<br>Low Smoke Zero Halogen (LSZH)        |
| <b>Fiber types:</b>              | Singlemode: OS2 9/125µm<br>Multimode: OM4/4+ 50/125µm |
| <b>Connector types, End 'A':</b> | Duplex LC Uniboot                                     |
| <b>Connector types, End 'B':</b> | Duplex LC Uniboot                                     |
| <b>Jacket color:</b>             | OS1/OS2: Yellow<br>OM4: Aqua<br>OM4+: Aqua            |

## optical properties

|                                  |     |  |
|----------------------------------|-----|--|
| <b>Connector insertion loss:</b> | MM: | 0.15dB max (Optimized IL)<br>0.10dB max (Ultra-Low IL) |
|                                  | SM: | 0.25dB max (Optimized IL)                              |
| <b>Connector return loss:</b>    |     | 26dB min (MM)<br>55dB min (SM)<br>65dB min (SM/APC)    |

## physical properties

|                                     |   |
|-------------------------------------|---|
| <b>Cable outside diameter (OD):</b> | 2.0mm   |
| <b>Connector cable retention:</b>   | 50N (11.24 lbs.) @ 0°<br>19.4N (4.4 lbs.) @ 90° |
| <b>Connector durability:</b>        | 500 cycles                                      |
| <b>Bend Radius Min (Long Term):</b> | 20mm (40mm)                                     |

## environmental properties

|  |               |
|--|---------------|
| <b>Storage and shipping temperature:</b>       | -40°C to 70°C |
| <b>Operating and installation temperature:</b> | -10°C to 60°C |

## standards

|   |  |
|---|--|
| <b>Meets or exceeds:</b>                                      | ISO/IEC 11801, TIA/EIA-568-D.3, TIA-604-10 (FOCIS-10)                  |
| <b>Restriction of Hazardous Substances (RoHS) Compliance:</b> | All patch cord components meet the requirement of Directive 2011/65/EU |

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

## part number configurator

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 50/125µm

S = OM4+ 50/125µm

9 = OS2 9/125µm

### 3 – Fiber Count

2 = 2-fiber

### 4 – Cable Type

R = Round 2.0mm

### 5 – Jacket Type

L = LSZH IEC 60332  
(Low Smoke Zero Halogen)

P = OFNP (Plenum)

### 6 – Connector Type

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 - Straight thru  
(A-B)

N = Ultra-Low IL - Straight thru  
(A-B) - Multimode Only

### 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)

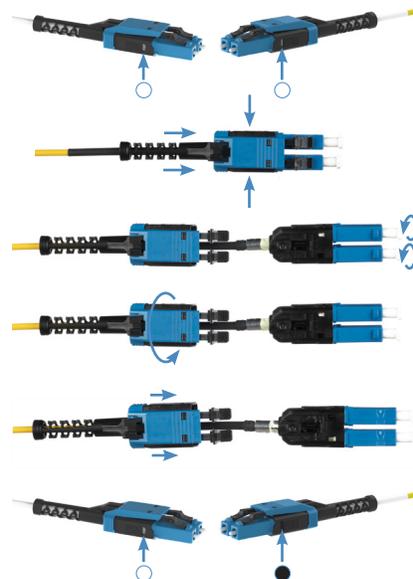
HOLD THE HOUSING AND PUSH THE BOOT FORWARD TOWARD THE CONNECTOR

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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