

LC Uniboot Fiber Patch Cables

LC uniboot fiber patch cables meet the high-density space requirements. Uniboot assemblies provide a single boot design integrated into the connector and clip design. The uniboot design allows one cable to carry two fibers, reducing cable congestion during routing, and combines modularity, flexibility, and ease of insertion and removal from connectivity.

The bend insensitive uniboot cable features ultrabendable performance, which can greatly reduce outages and degradations in systems caused by severe bending problems.

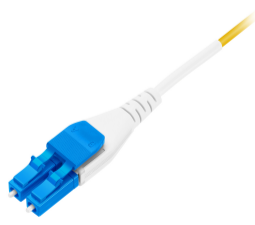
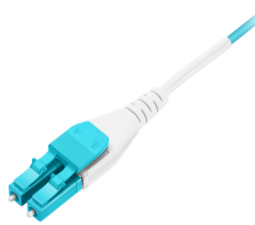


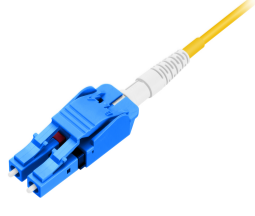
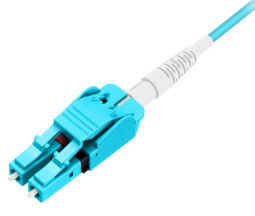
Features

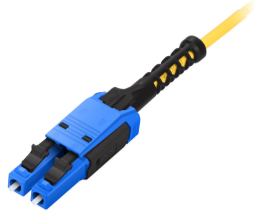

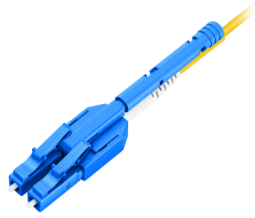

- Uniboot Allows One Cable to Carry Two Fibers to Reduce Cable Congestion in High-Density Patch Fields
- Bend Insensitive Fiber Allows Tighter Cable Bends for Slack Storage and Routing
- Available in Flat Clip, Standard Clip, Switchable Clip, Flat Clip with Push-Pull Boot and Push-Pull Tab LC Connector Types
- Available in OS2, OM3, and OM4 Fiber Modes
- Available in Riser (OFNR), LSZH and Plenum (OFNP) Cable Jackets
- Available in 1.6mm and 2.0mm Cable Outside Diameters
- Termination Is Tested to Ensure Network Performance
- Designed for High-Density Fiber Cabling in Network Cabinet Connections, Ceiling Wiring and Under-Floor Wiring in a Data Center
- Support for Various Transmission Speed Ethernet Applications

Standards Compliance

Component	Governing Body	Standard Code
Cable	IEC, YD/T	60794-2-10, 1258.2
Connectors	IEC	61300-3-35, 61754-4, 61754-15
Single Mode Fiber	IEC	60793-2-50
Multimode Fiber	IEC	60793-2-10
Fiber and Connectors	RoHS	2011/65/EU

Connector Interface Features

	OS2	OM4/OM3	Uniboot Design	Stackable Function	Pull-Push Boot	Pull-Push Tab	Reverse polarity
Flat clip			√	—	—	—	√
Standard Clip			√	—	—	—	—
Switchable Clip			√	—	—	—	√

Flat Clip with Push-Pull Boot			√	√	√	—	√
Push-Pull Tab			√	—	—	√	—

Specification

	Flat Clip	Standard Clip	Switchable Clip	Flat Clip with Push-Pull Boot
Connector Type	LC to LC	LC to LC/SC	LC to LC	LC to LC
Polish Type	UPC to UPC			
Fiber Count	2 Fibers			
Fiber Grade	OS2: G.657.A1 (Compatible with G.652.D) OM4/OM3: Bend Insensitive Fiber			
Fiber Mode	OS2/OM4/OM3			
Wavelength	OS2: 1310/1550nm OM4/OM3: 850/1300nm			
Flame Rating	Riser (OFNR)/Plenum (OFNP)/LSZH			
Tensile Strength	60/100N (Long/Short Term)			
Polarity	A (Tx) to B (Rx)			
Cable Outside Diameter (OD)	2.0/1.6/0.9mm (SC)			
Min. Bend Radius (Fiber Core)	OS2: 10mm OM4/OM3: 7.5mm			
Min. Bend Radius (Fiber Cable)	OS2: 10/5D (Dynamic/Static) OM4/OM3: 20/10D (Dynamic/Static)			
Insertion Loss	LC: ≤0.2dB SC: ≤0.3dB			
Return Loss	OS2: ≥50dB OM4/OM3: ≥30dB			
Attenuation	OS2: ≤0.4dB/km at 1310nm, ≤0.3dB/km at 1550nm OM4/OM3: ≤3.5dB/km at 850nm, ≤1.5dB/km at 1300nm			
Operating Temperature	Standard: -10 to 70°C (14 to 158°F) Customized: -10 to 60°C (14 to 140°F)			
Storage Temperature	-20 to 70°C (-4 to 158°F)			

Transmission Distance

Data Rate	Interface Type	Fiber Mode	Wavelength	Maximum Distance
1G	1000BASE-SX	OM4	850nm	550m
		OM3	850nm	550m
	1000BASE-LX	OS2	1310nm	10km
10G	10GBASE-SR	OM4	850nm	400m
		OM3	850nm	300m
	10GBASE-LRM	OM3	1300nm	220m
	10GBASE-LR	OS2	1310nm	10km
	10GBASE-ER	OS2	1550nm	40km
	10GBASE-ZR	OS2	1550nm	120km
40G	40G-BIDI	OM4	850nm	400m
		OM3	850nm	300m
	40GBASE-SR4	OM4	850nm	150m
		OM3	850nm	100m
	40GBASE-LR4	OS2	1310nm	10km
100G	100GBASE-SR4	OM4	850nm	100m
		OM3	850nm	70m
	100G-SWDM4	OM4	850nm	100m
		OM3	850nm	75m
	100GBASE-SR10	OM4	850nm	125m
		OM3	850nm	100m
	100GBASE-LR4	OS2	1310nm	10km
	100GBASE-ER4	OS2	1310nm	40km
200G	200GBASE-FR4	OS2	1310nm	2km
	200GBASE-LR4	OS2	1310nm	10km
400G	400GBASE-FR4	OS2	1310nm	2km
	400GBASE-LR4	OS2	1310nm	10km
	400GBASE-LR8	OS2	1310nm	10km
	400GBASE-ER4L	OS2	1310nm	30km
	400GBASE-ER8	OS2	1310nm	40km
800G	800GBASE-2FR4	OS2	1310nm	2km
	800GBASE-2LR4	OS2	1310nm	10km
1.6T	1.6TBASE-2FR4	OS2	1310nm	2km

*Actual transmission distance depends on the optical transceiver.

Customized Options

Fiber Type	Connector A	Connector B	Cable Jacket	Cable Diameter
<ul style="list-style-type: none"> • OS2 • OM4 • OM3 	<ul style="list-style-type: none"> • Standard Clip LC • Flat Clip LC • Push-Pull Tab LC 	<ul style="list-style-type: none"> • Standard Clip LC • Flat Clip LC • Push-Pull Tab LC 	<ul style="list-style-type: none"> • Riser (OFNR) • LSZH • Plenum (OFNP) 	<ul style="list-style-type: none"> • 1.6mm • 2.0m

Changing Polarity Guide

Flat Clip



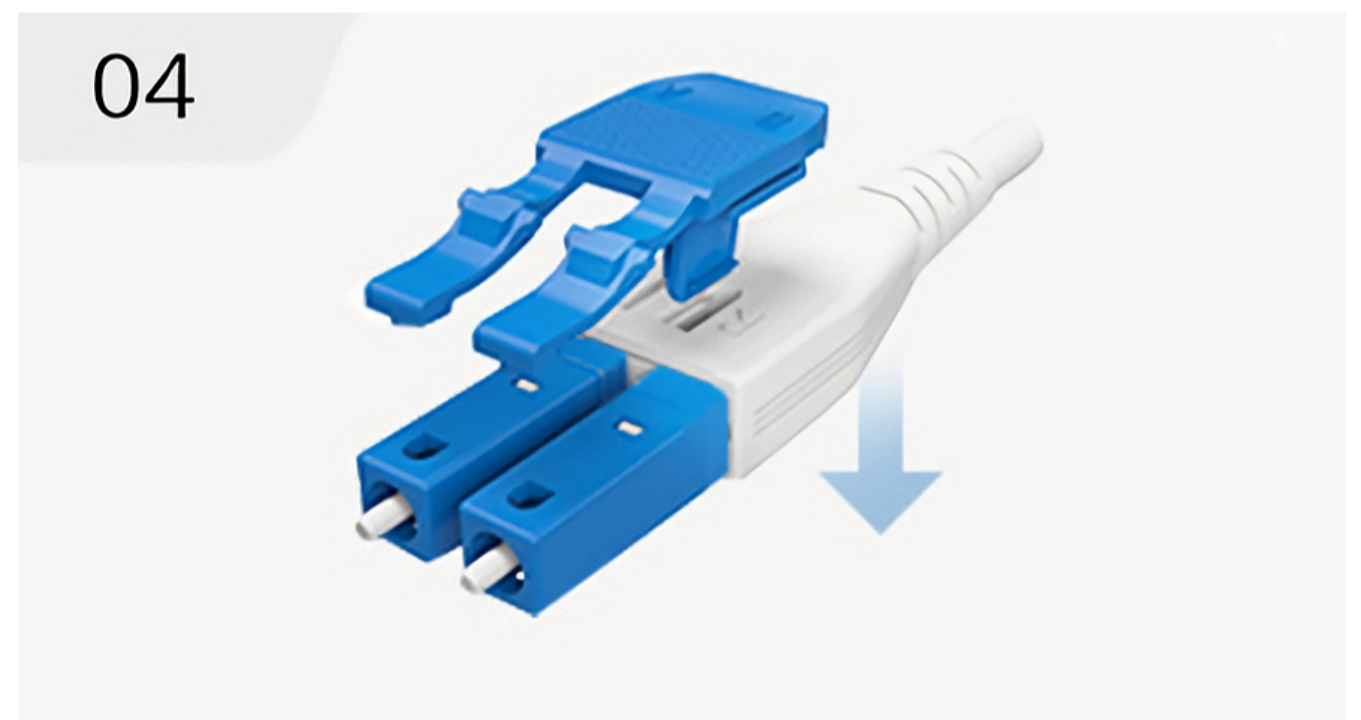
01 Unlock the latch from the back



02 Extract the latch from uniboot



03 Rotate the connector body 180°

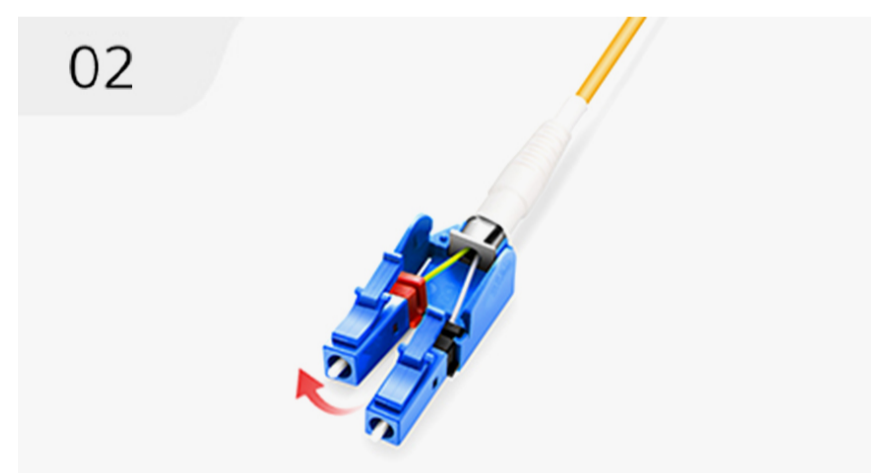


04 Push the latch back and lock it

Switchable Clip



01 Open the connector top

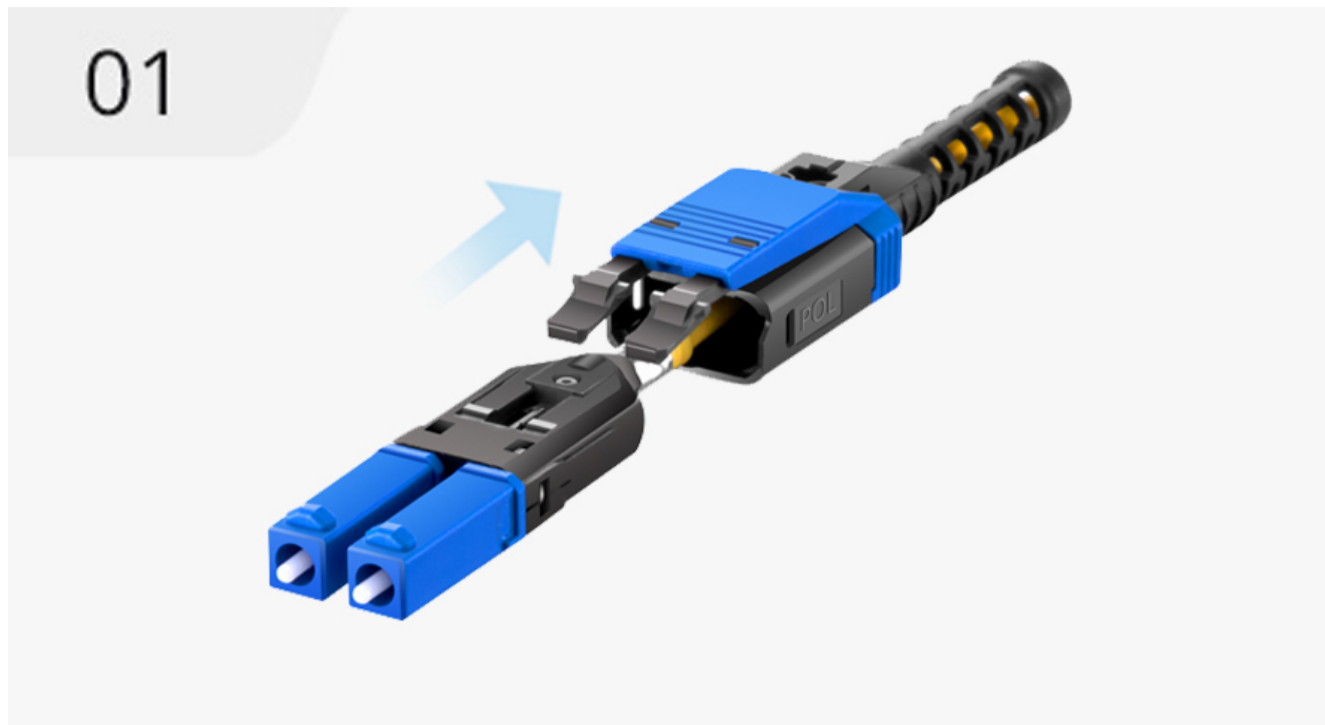


02 Switch the polarity from A-B to A-A

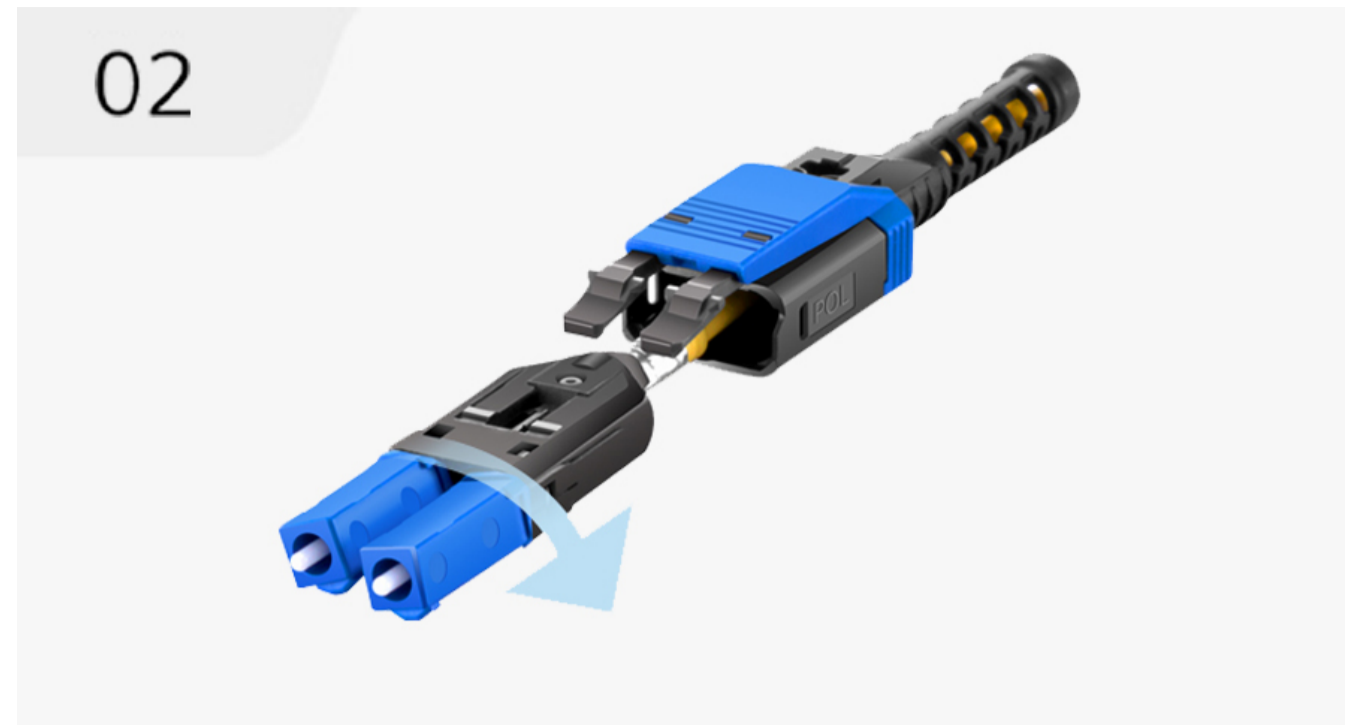


03 Close the connector top

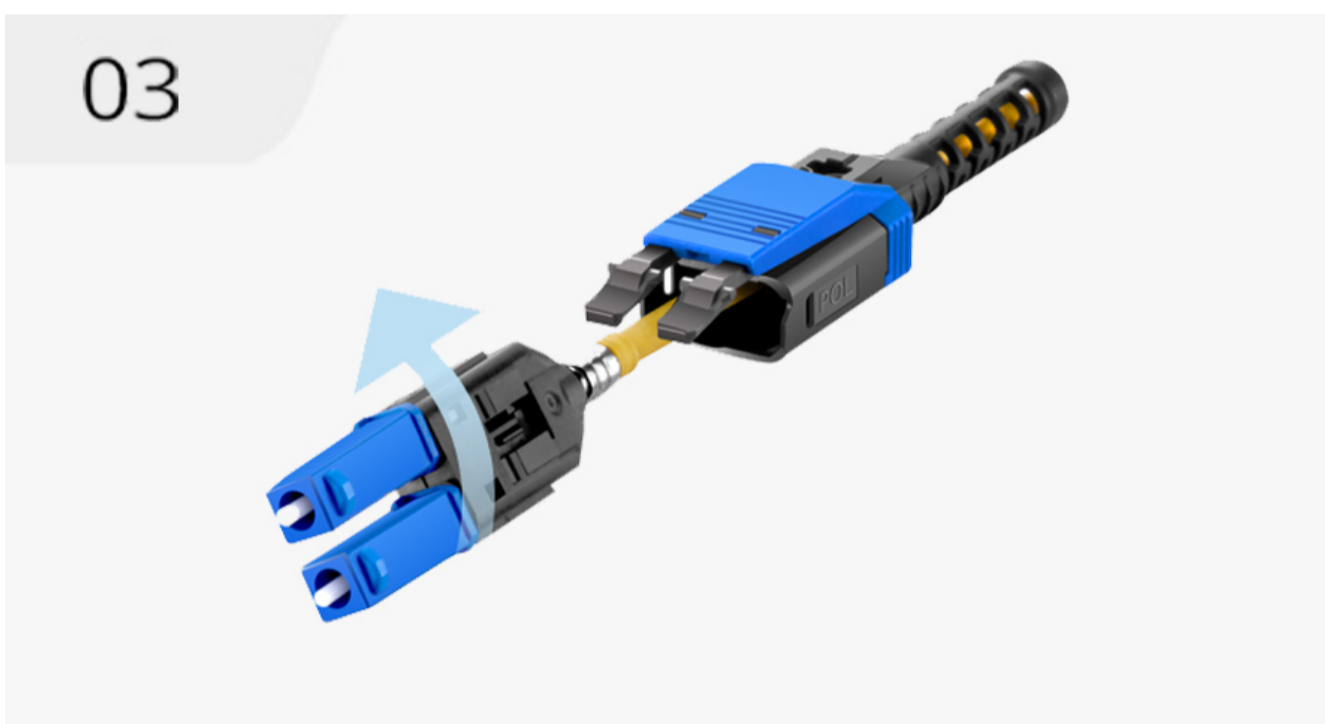
Flat Clip with Push-Pull Boot



Separate the connector housing from boot



Rotate the plug frame body 180°



Rotate the connector body 180°



Re-attach boot to the connector housing