



Compact Jumpers that Enable More Density and Increased Durability

Product Family Description

OFS offers an extensive line of LC fiber optic jumpers. Included in the offering are both simplex and duplex jumpers as well as hybrids and pigtailed.

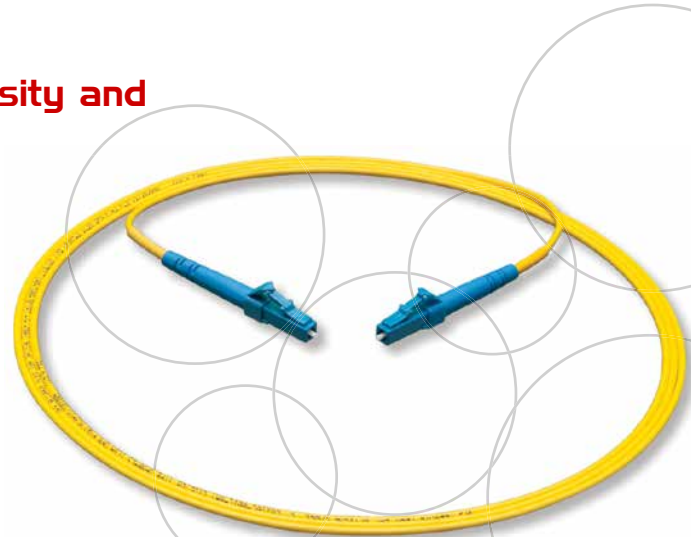
The LC Unibody® Connector used on the LC Patchcords has a trigger mechanism that allows the connector to be easily engaged and disengaged. This trigger also prevents the plug from snagging when jumper cables are being routed. On multimode duplex jumpers, the trigger also allows the two plugs to be simultaneously disengaged.

The LC Jumpers are available in 1.6, 2.0, and 3.0 mm diameter cordage. The smallest in the industry, the 1.6 mm cordage allows greater jumper density in a fully loaded frame and prevents congestion in overhead racks. A duplex jumper made from a figure-eight MiniCord® Cordage does not require a bulky bifurcation joint thereby saving space in the frame. The duplex MiniCord jumper can be peeled apart with ease so that two cords can be installed as one, then easily separated into two, saving time and effort. Single-mode cordage uses OFS' AllWave® FLEX Fiber providing excellent bend loss performance. The bend radius allows jumpers to be installed in spaces with limited maneuverability or around sharp corners.

Jumpers are tested and must meet a maximum insertion loss of 0.25 dB. Jumpers come in fixed lengths or can be ordered in custom lengths. LC jumpers are available with angled and reduced length cable support options for unique applications where space may be a constraint.

Applications:

- Telecommunications Networks
- Cable Television (CATV)
- Premises Distribution
- Local Area Networks (LAN)
- Fiber-to-the-Home (FTTX)
- Data Processing Networks
- Fiber-to-the-Desktop
- Device Terminations



LC - LC Single-Mode AllWave® FLEX Jumper

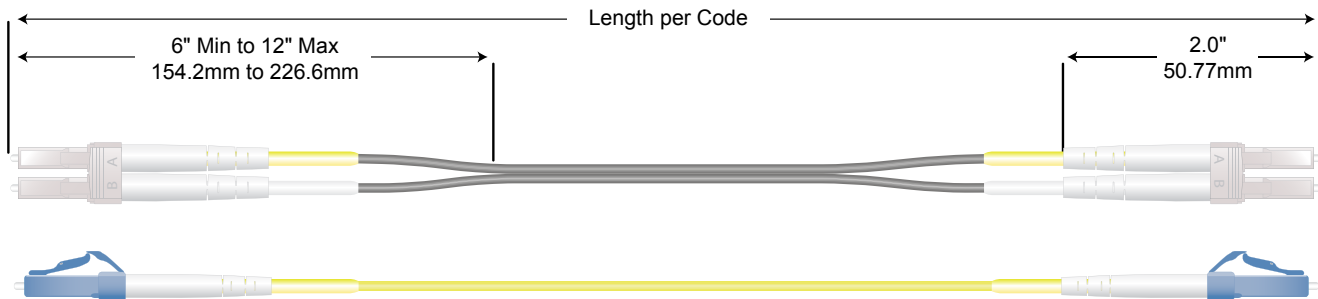
Features and Benefits:

- Half the size of standard connectors: doubles fiber density in shelves and outlets - lowering system cost
- RJ-45 style push/pull housing: allows easy disengagement in dense spaces
- Polarized: helps assure high repeatability, maintains transmit/receive direction
- Pull-proof: maintains optical contact under loads and helps prevent accidental disconnects
- PC finish: helps minimize transmission problems, optimizes optical contact
- Anti-snag latch: improves durability and reduces cross connect rearrangement effort



For Additional Reference, please check the following OFS Documentation

LC Adapters	(fap-102)
LC Connectors	(fap-115)
LC Angle Shielded Adapter	(fap-103)
Angled LC Family	(fap-118)



	LC Angled	LC Jumper		LC Pigtail	
	Single-Mode*	Single-Mode*	Multimode*	Single-Mode*	Multimode*
Loss ¹ : m, s (Tuned)	0.5, 0.3 dB	0.25, 0.3 dB	0.5, 0.3 dB	0.25, .3 dB	0.5, 0.3 dB
Return Loss Minimum	65 dB	55 dB	20 dB	55 dB	20 dB
Cable OD	1.6 mm	1.6 mm	1.6 mm	900 μm	900 μm
Cable Retention ² (cordage)	20 lbs/88.9 N	20 lbs/88.9 N	20 lbs/88.9 N	2 lbs/8.9 N	2 lbs/8.9 N
Mating Durability for 500 Reconnects Insertion Loss Change	< 0.2 dB	< 0.2 dB	< 0.2 dB	< 0.2 dB	< 0.2 dB
Temperature Stability (-40° C to +75° C) Insertion Loss Change	< 0.3 dB	< 0.3 dB	< 0.3 dB	< 0.3 dB	< 0.3 dB
Tip Material	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic

¹ Complete connection concatenated statistics 8.3/125 μm fiber, 62.5/125 μm fiber, dry connection.
² Cable dependent to cause permanent light transmission failure. Figures representative of use with OFS jumper cordage or equivalent.
 * The performance is representative of all LC factory jumpers herein.

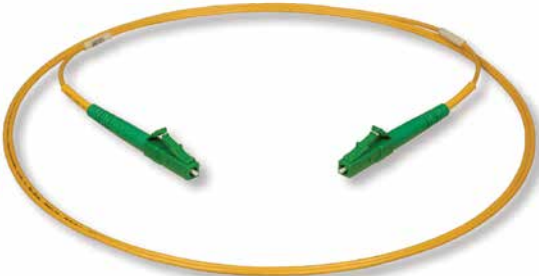
Jumper	Connector Color	Cordage Color
SM AllWave FLEX	Blue w/Blue Boot	Blue/Yellow
MM 62.5	Beige w/White Boot	Orange
MM LaserWave	Beige w/White Boot	Aqua
APC	Green w/Green Boot	Yellow



Simplex LC Single-Mode Connector



Simplex LC Angle-Polished Connector



LC Angle Polished Single-Mode Simplex Jumper



Duplex LC Multimode Connector

Ordering Information

LC Jumper Assemblies SMART Coding

Examples: JP3WY001LCUSCU003M – Jumper Plenum 3.0 mm AllWave® FLEX Fiber Yellow 1 fiber (Simplex) LCU SCU 003 Meters long
 JR2WY002LCUSCU003M – Jumper Riser 2.0 mm AllWave FLEX Fiber Yellow 2 fibers (Zip) LCU SCU 003 Meters long
 JV9WY001LCUUNC003M – Jumper Low Smoke PVC 900 µm AllWave FLEX Fiber Yellow 1 fiber LCU UNC (Pigtail) 003 Meters long

SMART Code syntax below has spaces between field sets for visibility.
 Actual SMART Code should not include any spacing.

aaa - Cable Design	b	c	ddd	eee	fff	nnn	g	g - Unit Of Measure
<p>JH1 = LSZH 1.6 mm JH2 = LSZH 2.0 mm JH3 = LSZH 3.0 mm JH4 = LSZH 4.8 mm (Simplex Only) JH5 = LSZH 4.8 mm I/O (Simplex Only) JHD = LSZH DFX 2.4 mm (Duplex Only) JDN = Dual Rated 3.0 mm I/O (Simplex Only) JP1 = Plenum 1.6 mm JP2 = Plenum 2.0 mm JP3 = Plenum 3.0 mm JP4 = Plenum 4.8 mm (Simplex Only) JPD = Plenum DFX 2.4 mm (Duplex Only) JPO = Plenum Over-Jacket (Duplex Only) JR1 = Riser 1.6 mm JR2 = Riser 2.0 mm JR3 = Riser 3.0 mm JR4 = Riser 4.8 mm (Simplex Only) JR5 = Riser 4.8 mm I/O (Simplex Only) JRA = Riser 1.2 mm JRD = Riser DFX 2.4 mm (Duplex Only) JRO = Riser Over-Jacket (Duplex Only) JRV = 3.0 mm ruggedized I/O (Simplex Only) JU6 = UV Buffer 600 µm (Simplex Only) JU9 = UV Buffer 900 µm (Simplex Only) JV6 = Low Smoke PVC 600 µm (Simplex Only) JV9 = Low Smoke PVC 900 µm (Simplex Only)</p>								<p>M = Meters (Min. 1 m) C = Centimeters (Min. 15 cm simplex/45 cm duplex) F = Feet (Min. 1 ft) I = Inches (Min. 6 in. simplex/18 in. duplex)</p>
						nnn - Length		
						001 - 999		
								eeefff - Connector Ends "A" & "B"
								<p>LCA = LC Angle Polish (Single Mode Only) LA4 = LC Angle Polish 40 Degree Boot (Single Mode Only) LC4 = LC Ultra Polish 40 Degree Boot LCU = LC Ultra Polish LCS = LC Ultra Polish Short Boot (1.6 mm & 2.0 mm Only) LCF = LC Ultra Polish Soft Boot (900 µm Only) LCD = LC Ultra Polish Single Mode Duplex w/ Clip SCA = SC Angle Polish (Single Mode Only) SAS = SC Angle Polish Short Boot (1.6 mm & 2.0 mm Single Mode Only) SCU = SC Ultra Polish SCS = SC Ultra Polish Short Boot (1.6 mm & 2.0 mm Only) ST2 = ST2 Ultra Polish (Use with PLENUM Cordage) FCA = FC Angle Polish (Single Mode Only) FCU = FC Ultra Polish UNC = UNConnectorized (Stub, Pigtail) (End "B" only)</p>
								ddd - Fiber Count
								<p>001 = Simplex 002 = Duplex Zip 004 = Quad Round Cordage (1.6 mm Sub Units Riser Only)</p>
								c - Jacket Color
								<p>B = Blue (Blue Tiger) O = Orange (50 µm & 62.5 µm Multimode Fiber) S = Slate (Optional color 62.5 Multimode) W = White (EZ-Bend Fiber) K = Black (Indoor/Outdoor 4.8 mm Cordage Fiber) Y = Yellow (AllWave FLEX Fiber) A = Aqua (LaserWave 150 G+, 300, 550 Fiber)</p>
								b - Fiber Type
								<p>B = Blue Tiger™ (Blue Jacket Only) D = EZ-Bend® (White Jacket Default) F = LaserWave® 550 (Aqua Jacket Default) H = LaserWave 150 G+ (Aqua Jacket Default) K = 50 µm Bend-Insensitive (Orange Jacket Default) L = 62.5 µm Multimode (Orange Jacket Default) M = 50 µm Multimode (Orange Jacket Default) W = AllWave FLEX (Yellow Jacket Default) Z = LaserWave 300 (Aqua Jacket Default) 3 = LaserWave 300 Bend-Insensitive 5 = LaserWave 500 Bend-Insensitive</p>

FOR ADDITIONAL INFORMATION PLEASE CONTACT YOUR SALES REPRESENTATIVE.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) from inside the USA or 1-770-798-5555 from outside the USA.



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