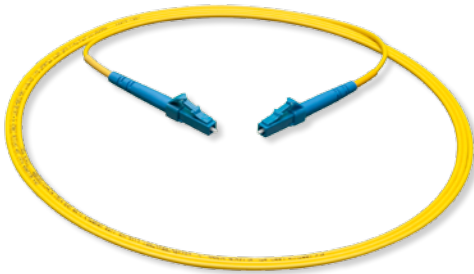




A Furukawa Company

LC Jumpers

High Performance Compact Jumpers that Enable More Density and Increased Durability



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-snap latch: improves durability and reduces cross connect rearrangement effort

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



Product 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.

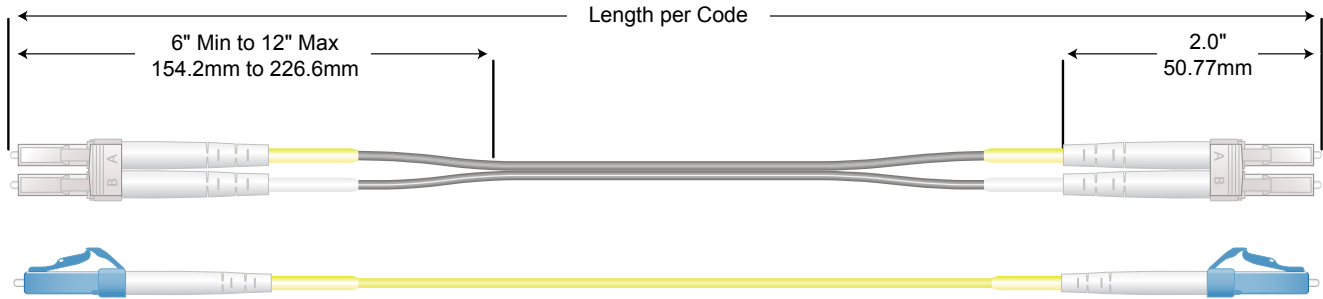
The LC Jumpers are available in 1.6, 2.0, and 3.0 mm diameter cordage. The smallest in the industry, the 1.6 mm cordage allows greater jumper density in a fully loaded frame and prevents congestion in overhead racks. A duplex jumper made from a figure-eight MiniCord® Cordage does not require a bulky 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.



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LC Jumpers

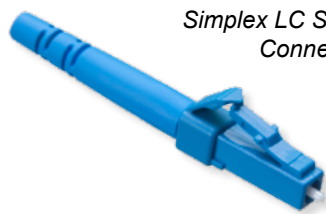


LC Specifications						
	LC Angled		LC Jumper		LC Pigtail	
	<i>Single-Mode*</i>		<i>Single-Mode*</i>	<i>Multimode*</i>	<i>Single-Mode*</i>	<i>Multimode*</i>
Loss ¹ : m, s (Tuned)	0.5, 0.3 dB	0.25, 0.3 dB	0.5, 0.3 dB	0.25, .3 dB	0.5, 0.3 dB	
Return Loss Minimum	65 dB	55 dB	20 dB	55 dB	20 dB	
Cable OD	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.



Simplex LC Single-Mode Connector



Simplex LC Angle-Polished Connector



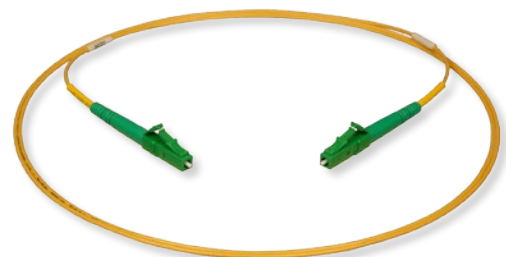
Duplex LC Multimode Connector

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)

Jumper Color Coding Scheme

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



LC Angle Polished Single-Mode Simplex Jumper



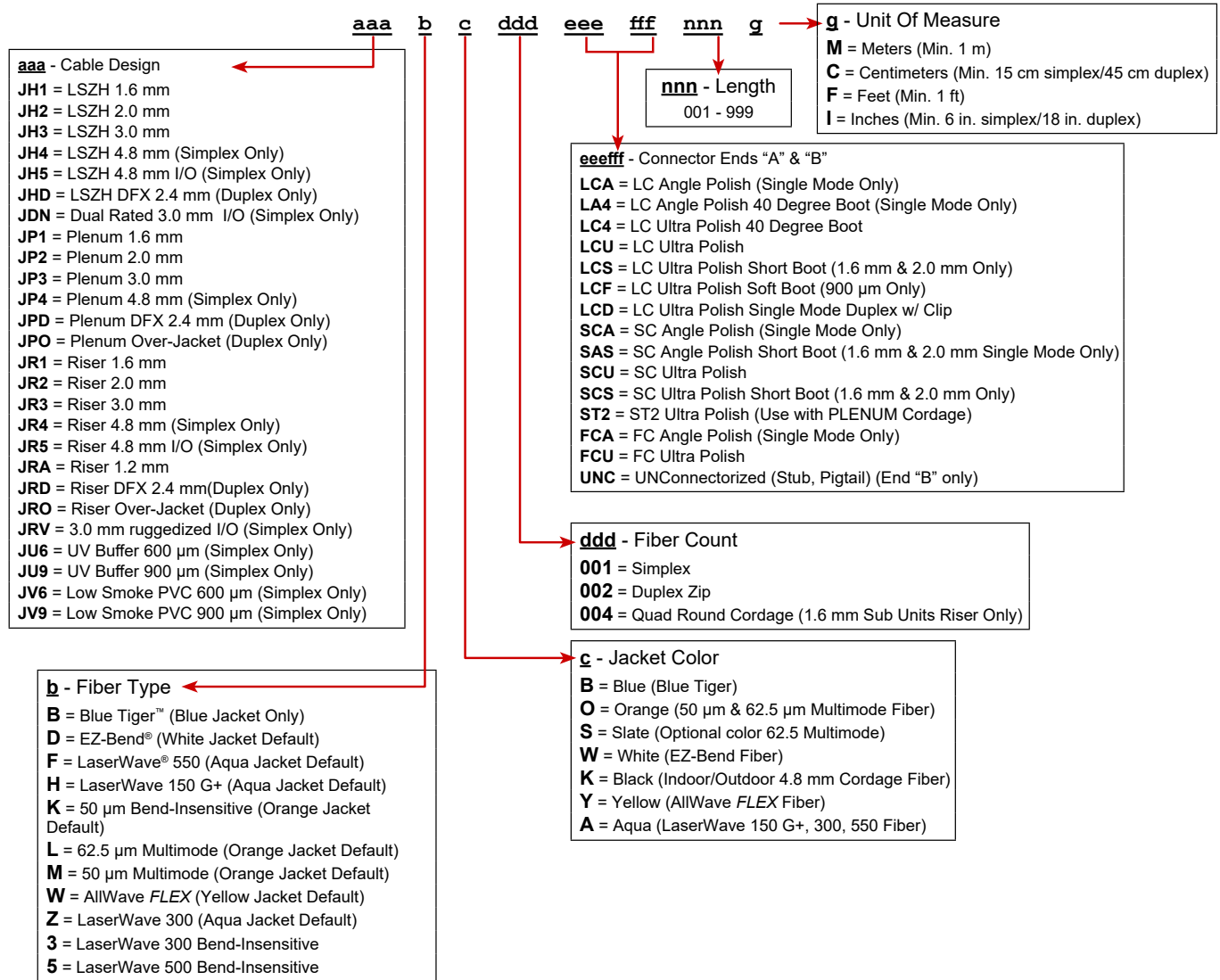
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Ordering Information - LC Jumper Assemblies SMART Coding

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.



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) USA or 1-770-798-5555 outside the USA.



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OFS Marketing Communications DOC: fap-203 Date: 07/17



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