

# LC Jumpers

## Compact Jumpers that Perform

### 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 pigtails.

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 mm diameter cordage. 1.6 mm cordage, the smallest in the industry, 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 depressed clad fiber providing excellent bend loss performance. The bend radius permits you to install jumpers 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.

### Applications

- Telecommunications Networks
- Cable Television
- Premises Distribution
- Local Area Networks
- Fiber-to-the-Home
- Data Processing Networks
- Fiber-to-the-Desktop
- Device Terminations



LC MiniCord® Simplex Jumper

### 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

<b>Jumper Coding Scheme</b>					
M	S	2	LC -	LC -	10
Cordage Type	Fiber Type	Jumper Type	Connector Type (end 1)	Connector Type (end 2)	Length ft.
M - MiniCord	S - SM	1 - Simplex	SC - SC	SC - SC	
B - SBJ	L - MM (62.5)	2 - Duplex	SCA - SC Angled	SCA - SC Angled	
N - Nylon Buffer	W - AllWave®	4 - Quad		FC - FC	
F or L - 3.0mm	D - LaserWave™			FCA - FC Angled	
	SR - Red Jacket			D4 - D4	
	SB - Blue Tiger			EP - STII+	
				LC - LC	
				LCA - LC Angled	

<b>Jumper Color Coding Scheme</b>		
Jumper	Connector Color	Cordage Color
SM	Blue w/White Boot	Yellow
SM AllWave	Blue w/White Boot	Violet
MM 62.5	Beige w/White Boot	Slate (Gray)
MM LaserWave	Beige w/White Boot	Aqua
APC	Green w/Green Boot	Yellow



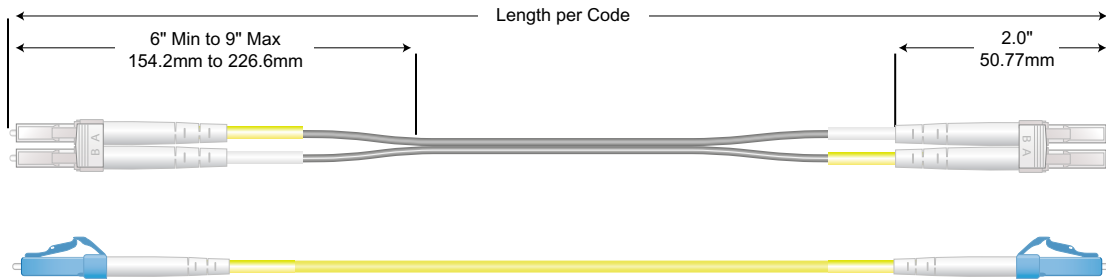
*Duplex LC Multimode Connector*



*Simplex LC Single-Mode Connector*



*Simplex LC Angle-Polished Connectors*



<b>LC Jumper Specifications</b>		
	<b>Single-Mode*</b>	<b>Multimode*</b>
Loss <sup>1</sup> : m, s, (Tuned)	0.06 dB, .06 dB	0.10, 0.10 dB
Return Loss Minimum	55 dB	20 dB
Cable OD	1.6mm	1.6mm
Cable Retention <sup>2</sup> (cordage)	20 lbs./88.9N	20 lbs./88.9N
Mating Durability for 500 Reconnects Insertion Loss Change	<0.2 dB	<0.2 dB
Temperature Stability (-40°C to +75°C) Insertion Loss Change	<0.3 dB	<0.3 dB
Tip Material	Ceramic	Ceramic

1 - Complete connection concatenated statistics 8.3/125 fiber; 62.5/125 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.

## Single-Mode LC Jumpers

### 1.6mm Single-Mode LC Jumpers, Simplex

Product Code	Comcode	Length ft/m
MS1LC-LC-2	107735169	2/0.6
MS1LC-LC-4	107735177	4/1.2
MS1LC-LC-5	107735185	5/1.5
MS1LC-LC-10	107735243	10/3
MS1LC-LC-15	107735250	15/4.6
MS1LC-LC-20	107735268	20/6.1
MS1LC-LC-25	107735276	25/7.6
MS1LC-LC-30	107735284	30/9.1
MS1LC-LC-35	107735292	35/10.7
MS1LC-LC-40	107735300	40/12.2
MS1LC-LC-50	107735318	50/15.2
MS1LC-LC-75	107735326	75/22.9
MS1LC-LC-100	107735334	100/30.5
MS1LC-LC-E/W	107735342	0/0*

### 1.6mm Single-Mode LC Jumpers, Duplex

Product Code	Comcode	Length ft/m
MS2LC-LC-2	107735359	2/0.6
MS2LC-LC-4	107735367	4/1.2
MS2LC-LC-5	107735375	5/1.5
MS2LC-LC-10	107735409	10/3
MS2LC-LC-15	107735417	15/4.6
MS2LC-LC-20	107735425	20/6.1
MS2LC-LC-25	107735433	25/7.6
MS2LC-LC-30	107735441	30/9.1
MS2LC-LC-35	107735458	35/10.7
MS2LC-LC-40	107735466	40/12.2
MS2LC-LC-50	107735474	50/15.2
MS2LC-LC-75	107735482	75/22.9
MS2LC-LC-100	107735490	100/30.5
MS2LC-LC-E/W	107735508	0/0*

\*These codes are for custom jumper ordering. See Page 9 for instructions..

## Angle Polished LC Jumpers

### LC Angle Polish Single-Mode Simplex

Product Code	Comcode	Length ft/m
MS1LCA-LCA-4	108445487	4/1.2
MS1LCA-LCA-5	108445495	5/1.5
MS1LCA-LCA-10	108445529	10/3
MS1LCA-LCA-15	108445545	15/4.6
MS1LCA-LCA-20	108445552	20/6.1
MS1LCA-LCA-25	108445560	25/7.6
MS1LCA-LCA-30	108445578	30/9.1
MS1LCA-LCA-35	108445586	35/10.7
MS1LCA-LCA-40	108445594	40/12.2
MS1LCA-LCA-50	108445602	50/15.2
MS1LCA-LCA-75	108445610	75/22.9
MS1LCA-LCA-100	108445628	100/30.5



LC Angle Polished Jumper

## 1.6mm Multimode LC Jumpers, Simplex

Product Code	Comcode	Length
ML1LC-LC-E/W	108913682	0/0*
ML1LC-LC-02	108917956	2/0.6
ML1LC-LC-04	108917964	4/1.2
ML1LC-LC-05	108917972	5/1.5
ML1LC-LC-10	108913781	10/3
ML1LC-LC-15	108913773	15/4.6
ML1LC-LC-20	108913765	20/6.1
ML1LC-LC-25	108913757	25/7.6
ML1LC-LC-30	108913740	30/9.1
ML1LC-LC-35	108913732	35/10.7
ML1LC-LC-40	108913724	40/12.2
ML1LC-LC-50	108913716	50/15.2
ML1LC-LC-75	108913708	75/22.9
ML1LC-LC-100	108913690	100/30.5

## 1.6mm Multimode LC Jumpers, Duplex

Product Code	Comcode	Length
ML2LC-LC-E/W	108913575	0/0*
ML2LC-LC-02	108918020	2/0.6
ML2LC-LC-04	108918038	4/1.2
ML2LC-LC-05	108918046	5/1.5
ML2LC-LC-10	108913674	10/3
ML2LC-LC-15	108913666	15/4.6
ML2LC-LC-20	108913658	20/6.1
ML2LC-LC-25	108913641	25/7.6
ML2LC-LC-30	108913633	30/9.1
ML2LC-LC-35	108913625	35/10.7
ML2LC-LC-40	108913617	40/12.2
ML2LC-LC-50	108913609	50/15.2
ML2LC-LC-75	108913591	75/22.9
ML2LC-LC-100	108913583	100/30.5

\*These codes are for custom jumper ordering. See Page 9 for instructions..

# LC Pigtaills

## LC Single-Mode Pigtaills

Product Code	Comcode	Length ft/m
1LC-1	107 753 097	1/0.3
1LC-5	107 753 105	5/1.5
1LC-7	107 753 113	7/2.1
1LC-10	107 753 121	10/3.1
1LC-20	107 753 139	20/6.1
1LC-35	107 753 147	35/10.7

## LC Multimode Pigtaills

Product Code	Comcode	Length ft/m
3LC-1	107 753 196	1/0.3
3LC-5	107 753 204	5/1.5
3LC-20	107 753 212	20/6.1
3LC-35	107 753 220	35/10.7

## Pigtail Specifications

	Single-mode	Multimode
Loss m,s	0.06, .06dB (Tuned)	0.10, 0.10dB
Return Loss (Min)	55dB	20dB
Retention	2 lbs./8.9N	2 lbs./8.9N
Tip Material	Ceramic	Ceramic

## LC-SC Multimode 1.6 mm Jumpers, Simplex

Product Code	Comcode	Length ft/m
ML1LC-SC-05	108919226	5/1.5
ML1LC-SC-10	108914037	10/3
ML1LC-SC-15	108914045	15/4.6
ML1LC-SC-20	108914052	20/6.1
ML1LC-SC-25	108914060	25/7.6
ML1LC-SC-50	108914102	50/15.2

## LC-SC Multimode 1.6 mm Jumpers, Duplex

Product Code	Comcode	Length ft/m
ML2LC-SC-5	108918186	5/1.5
ML2LC-SC-10	108914144	10/3
ML2LC-SC-15	108914177	15/4.6
ML2LC-SC-20	108914185	20/6.1
ML2LC-SC-50	108914219	50/15.2

## LC-SC Multimode 1.6 mm Jumpers, Simplex

Product Code	Comcode	Length ft/m
ML1LC-SC-05	108919226	5/1.5
ML1LC-SC-10	108914037	10/3
ML1LC-SC-15	108914045	15/4.6
ML1LC-SC-20	108914052	20/6.1
ML1LC-SC-25	108914060	25/7.6
ML1LC-SC-50	108914102	50/15.2

## LC-SC Multimode 1.6 mm Jumpers, Duplex

Product Code	Comcode	Length ft/m
ML2LC-SC-5	108918186	5/1.5
ML2LC-SC-10	108914144	10/3
ML2LC-SC-15	108914177	15/4.6
ML2LC-SC-20	108914185	20/6.1
ML2LC-SC-50	108914219	50/15.2

## Custom Jumper Ordering

Order Form Structure:

Line 1: Enter the E/W COMCODE with quantity of jumpers desired

Line 2: Enter the E/W cordage type COMCODE and the total footage of cordage needed to make all of Line 1

Example: To get 7 special length (21 feet) LC to LC multimode simplex MiniCord jumpers.

Line 1: 108 913 682      ML1LC-LC-E/W•      Quantity 7  
 Line 2: 107 132 706      LGMC-001B-LRX      Quantity 147 feet (7 X 21')

### Custom Cordage

COMCODE	Code	Fiber Type	Configuration
107 132 698	LGMC-001B-SRX	Single-Mode	Simplex
107 132 672	LGMC-002B-SRX	Single-Mode	Duplex
107 132 714	LGMC-001B-LRX	Multimode	Simplex
107 132 706	LGMC-002B-LRX	Multimode	Duplex

### Custom Length LC Jumpers

Fiber Type	Connectors	Product Code	Comcode
<b>Simplex</b>			
Single-Mode	LC-LC	MS1LC-LC E/W	107 735 342
Single-Mode	LC - FC	CLI-MS1LC-FC-E/W	108 153 941
Single-Mode	LC - STII+	CLI-MS1LC-EP-E/W	107 815 896
Single-Mode	LC - SC	CLI-MS1LC-SC-E/W	107 815 912
Multimode	LC - SC	CLI-ML1LC-SC-E/W	108 914 029
Multimode	LC - ST	CLI-ML1LC-EP-E/W	108 913 807
<b>Duplex</b>			
Single-Mode	LC-LC	MS2LC-LC E/W	107 735 508
Single-Mode	LC - SC	CLI-MS2LC-SC-E/W	107 815 920
Single-Mode	LC - STII+	CLI-MS2LC-EP-E/W	107 815 904
Multimode	LC - SC	CLI-ML2LC-SC-E/W	108 914 136
Multimode	LC - ST	CLI-ML2LC-EP-E/W	108 913 914



#### Additional Reference Documentation

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

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