



A Furukawa Company

# LC Angled Product Family

Designed to Enhance the Performance of Your Network



LC APC BTW Connector



LC APC Unibody® Connector

## Features

- Small Form Factor (SFF) connector is half the size of standard connectors
- Superior insertion and return loss performance
- Unique one piece design
- Anti-snag latch for jumper
- Pull-proof for jumper
- Simple RJ45 type connector makes audible click when inserted

## Benefits

- Doubles density
- Helps ensure higher level of network performance
- Improves side load performance
- Disengages easily in dense spaces
- Maintains optical contact
- Helps minimize transmission problems
- Offers superior return loss performance

## LC APC Connectors

The LC APC connector has been designed to provide outstanding return loss as well as insertion loss performance. Factory terminated connectors are polished with an 8 degree angle polish for superior return loss. The connector provides superior insertion loss that is comparable to standard single-mode LC connectors. Customers can now have the improved return loss some applications require without sacrificing insertion loss performance. The connector can be easily distinguished from standard non-angled LC connectors by its green housing and boot. The LC APC meets or exceeds Telcordia GR326-CORE requirements.

## Product Description

The Angled LC Product Family was designed to meet the needs of the cable television (CATV), fiber-to-the-home (FTTx) and dense wave division multiplexing (DWDM) markets. The LC Angled Polish Connector (APC) provides a simple solution for customers who need high-density, high-performance connectivity. An OFS Labs innovation, the LC APC reduces the space required on panels, outlets, and in closets by approximately 50% throughout the network. Factory terminated and tested shelves are ready to mount on frames or walls and are filled with LC APC Jumpers and Splitter Modules.

## Applications

- CATV
- FTTx
- DWDM

### LC Specifications

Ferrule Diameter	1.25 mm
Cable Outside Diameter (OD)	900 μm, 1.6, 2.0 and 3.0 mm
Insertion Loss m, s	0.08 dB, 0.06 dB
Return Loss	Minimum 65 dB
Mating Durability (Insertion Loss Change after 500 Reconnects)	< 0.2dB
Temperature Stability (-40 °C to +75 °C) Insertion Loss Change	< 0.3dB
Tip Material	Zirconia



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## LC Angled Product Family

### Angled LC Splitter Modules

The Angled LC Splitter Modules, used to house and protect single or multiple optical components and fiber leads, provides an LGX® fiber optic distributing system-compatible format to split or couple broadband laser signals within the central office or head-end. These vertically oriented modules plug into standard LGX shelves, enabling incremental application growth and multiple networking options. The module has front-access simplex Angled LC adapters. The number of adapters depends on the split ratio required.



LC Angled Splitter Module

Ordering Information - Splitter Modules - Dual Wavelength					
Product Code	Split Ratio	Comcode	Product Code	Split Ratio	Comcode
<b>1x2 Split</b>			<b>1x3 Split</b>		
S1-1X2-1315-LCA-S-C02-F	05/95	300 387 149	S1-1X3-1315-LCA-S-C33-F	60/20/20	300 387 156
S1-1X2-1315-LCA-S-C03-F	10/90	300 387 131	S1-1X3-1315-LCA-S-C30-F	50/20/20	300 387 164
S1-1X2-1315-LCA-S-C04-F	15/85	300 387 123	S1-1X3-1315-LCA-S-C28-F	40/30/30	300 387 172
S1-1X2-1315-LCA-S-C05-F	20/80	300 387 115	S1-1X3-1315-LCA-S-BAL-F	33/33/33	300 387 180
S1-1X2-1315-LCA-S-C06-F	25/75	300 387 107	S1-1X3-1315-LCA-S-C27-F	30/35/35	300 387 198
S1-1X2-1315-LCA-S-C07-F	30/70	300 387 099	S1-1X3-1315-LCA-S-C25-F	20/40/40	300 387 206
S1-1X2-1315-LCA-S-C08-F	35/65	300 387 081	<b>1x4 Split</b>		
S1-1X2-1315-LCA-S-C09-F	40/60	300 387 073	S1-1X4-1315-LCA-S-BAL-F	25/25/25/25	300 387 214
S1-1X2-1315-LCA-S-C10-F	45/55	300 387 065	<b>1x5 Split</b>		
S1-1X2-1315-LCA-S-BAL-F	50/50	300 387 057	S1-1X5-1315-LCA-S-BAL-F	20/20/20/20/20	300 387 222

### Angled LC Connector Modules

The Fiber Optic Connector Module line offers a variety of factory-terminated and pre-tested connector modules ready for mounting in fiber optic shelves. The modules are available in 1, 2, or 3 module arrangements terminated on one cable.

Ordering Information - Connector Modules	
Description	Comcode
LCM1-12-LCAP-SARU-050	108 475 328
LCM1-12-LCAP-SARU-100	108 475 351
LCM1-12-LCAP-SLRU-050	108 475 369
LCM1-12-LCAP-SLRU-100	108 475 377
LCM1-24-LCAP-SARU-050	108 475 385
LCM1-24-LCAP-SARU-100	108 475 393
LCM1-24-LCAP-SLRU-050	108 475 401
LCM1-24-LCAP-SLRU-100	108 475 419

## LC APC Adapters

Zirconia-sleeved Angled LC Adapters are used to terminate two jumpers or connectors. The OFS Angled LC Adapter is available in simplex and duplex designs, and it features a self-adjusting mechanism designed to accommodate panel thickness variations from 1.55 to 1.75 mm (0.060 to 0.067 inches). The Angled LC Duplex Adapter occupies approximately the same space as an SC Simplex Adapter, thus allowing for twice the number of connections in the same space. Our Angled LC Adapter is symmetrical and can be rotated to any of four positions.

Ordering Information - Connectors and Adapters		
Description	Product Code	Comcode
LC APC BTW Connector - 1000 Pack	P1201 A-Z-126.0 - 1000	109 148 742
LC APC BTW Connector - 1000 Pack	P1201 A-Z-125.5 - 1000	109 122 069
APC BTW - 100 Pack	P1201A-Z-125.0 - 100 Kit	109 167 551
APC BTW - 100 Pack	P1201A-Z-125.5 - 100 Kit	109 167 544
LC APC BTW Jumper Connector - 100 Pack	P1201A-Z-126.0 - 100 Kit	109 167 536
LC APC Jumper Connector - 1000 Pack	P1200 A-Z-126.0 -1000 Kit	109 148 536
APC Jumper - 1000 Pack	P1200A-Z-125.5 - 1000 Kit	109 122 051
APC Jumper - 100 Pack	P1200A-Z-125.0 - 100 Kit	109 167 437
APC Jumper - 100 Pack	P1200A-Z-125.5 - 100 Kit	109 167 478
APC Jumper - 100 Pack	P1200A-Z-126.0 - 100 Kit	109 167 494
LC APC Adapter Simplex	C1201B-1	108 388 901
LC APC Adapter Duplex	C1201B-2	108 388 919
LC APC Duplex Adapter in a SC footprint	C1204A-2	108 950 379



LC Duplex  
APC Adapter

## Angled LC Pre-terminated Shelf

Angled LC Pre-terminated Shelves are mounted to an LGX Fiber Optic Distributing Frame and are ready to accept jumper cables from electronic equipment. They come equipped with OFS Angled LC Connectors and AccuRibbon® Riser Cable.

Ordering Information - Preterminated Shelves		
Description	Length	Comcode
<b>5", 48</b>		
LPS1-LCAP-AR-048-05-050	50ft. (15.2m)	108 489 931
LPS1-LCAP-AR-048-05-100	100ft. (30.5m)	108 489 949
<b>7", 144</b>		
LPS1-LCAP-AR-144-05-050	50ft. (15.2m)	108 475 427
LPS1-LCAP-AR-144-05-100	100ft. (30.5m)	108 475 435

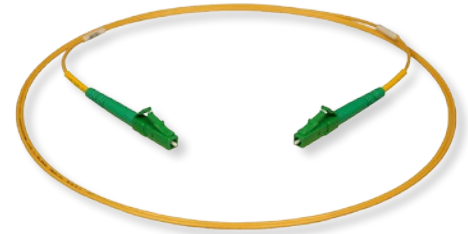


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## LC Angled Product Family

### Angled LC Jumpers and Pigtails

OFS Angled LC jumpers combine the low bending loss of OFS' AllWave® FLEX Cordage with OFS low loss angled polish LC Connectors to help ensure superior performance. The primary use of patch cords is to link ports on cross-connect modules, or to link interconnect modules and optical equipment. Angled LC Pigtails are single-ended interconnect cables primarily spliced to outside plant cables entering a head-end or customer premises. The pigtail interconnect cable provides connection to a wide variety of termination equipment. Angled LC Pigtails are composed of 900 micron strengthened buffer fiber jacket (SBJ) cordage that is structurally enhanced with aramid yarn.

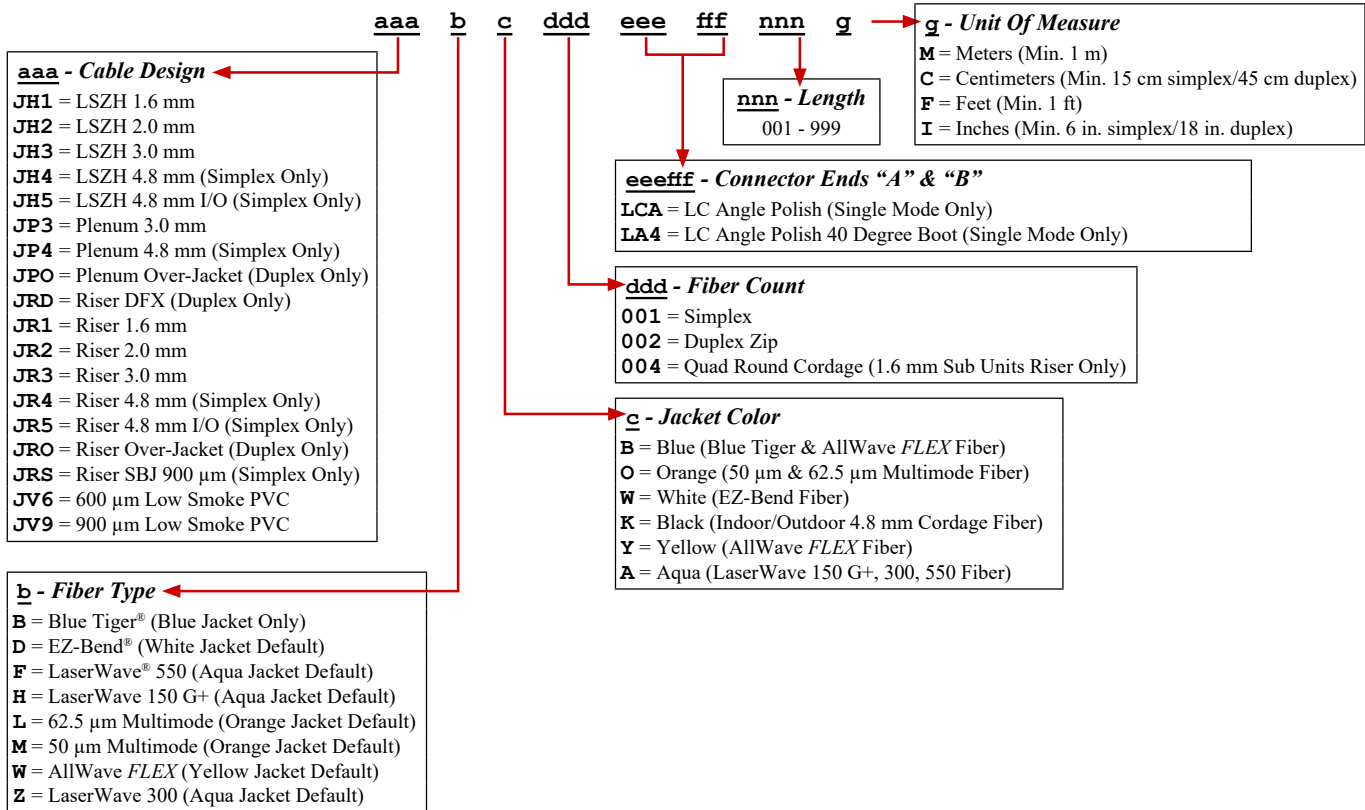


LCA-LCA Jumper

### Jumper Assemblies SMART Coding

Example: JP3WY001LCA LCA003M - Jumper Plenum 3.0 mm AllWave® FLEX Fiber Yellow 1 fiber (Simplex) LCA LCA 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](http://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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