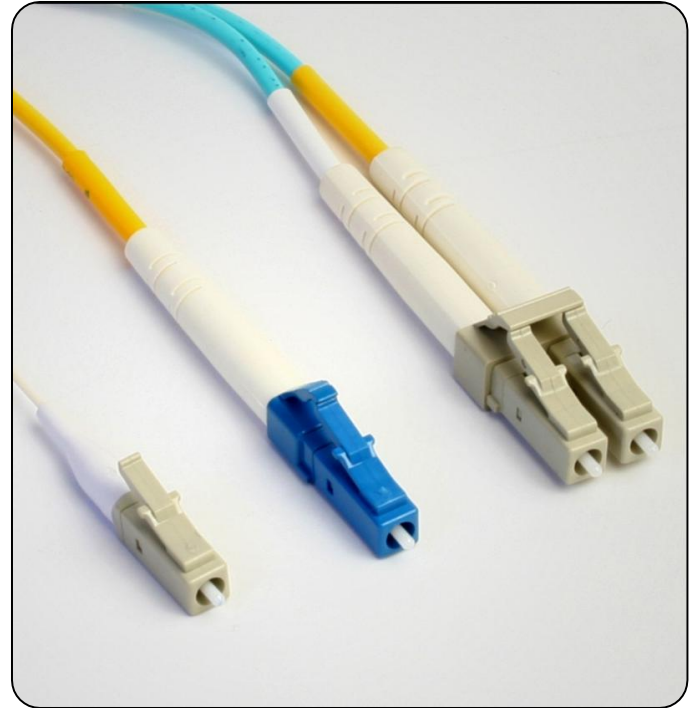# Amphenol LC Connectors

Amphenol's data communications fiber optic LC small form factor (SFF) connectors utilize the familiar RJ-45 latching mechanism. The LC connector is almost half the size of the popular SC connector, providing great space savings in the network. With accelerated growth demanding greater bandwidth in less physical space, LC connectors have emerged as a viable solution for high density frames and patch panels.

Amphenol's LC connectors are a high density low cost solution without any sacrifice of performance. The Amphenol LC connectors are compliant to the EIA/TIA-604 and IEC 61754.

Features/Benefits

- Easy RJ45 coupling mechanism enables quick installation and the audible click signifies when connector is locked in place
- Pull proof design prevents signal interruption
- Small form factor size enables increased density compared to standard connectors
- Duplex version utilizes a removable flexible clip providing a float between channels A and B
- Singlemode and multimode versions
- Available with 900µm, 900µm Behind the Wall (BTW), Short, 1.6/2.0mm, or 3.0mm boots
- Multiple boot color options
- Angled boots also available (50 degree, 90 degree, and flexible boot from 0 to 90 degree)

Specifications

Insertion Loss: ≤ 0.15dB typical, singlemode
≤ 0.25dB typical, multimode

Return Loss: Ultra (UPC) ≤ -55dB*

Durability: < 0.2dB change, 500mating cycles

Temperature: <0.3dB change, -40 to +85°C
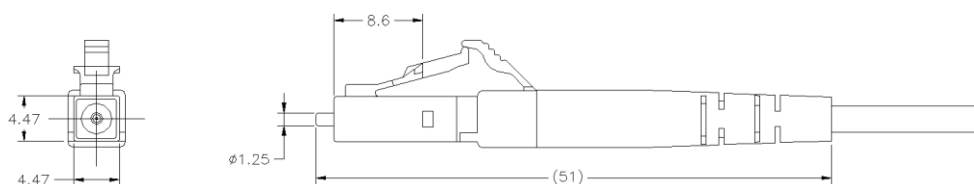
Intermateability:

The Amphenol LC Connectors are mechanically and optically intermateable with industry standard LC connectors and adapters and conform to TIA/EIA, IEC, and Telcordia specifications.
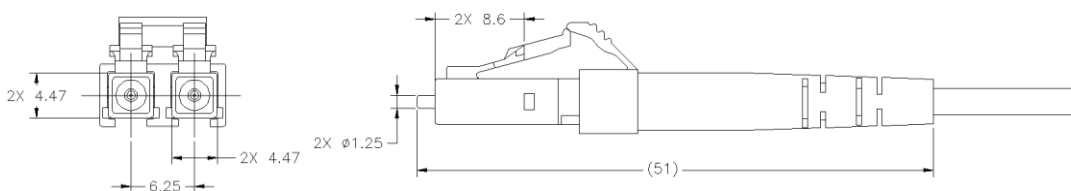
*Performance is polish dependent

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sales@amphenol-fiberoptics.com
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LC Connector Ordering Information*

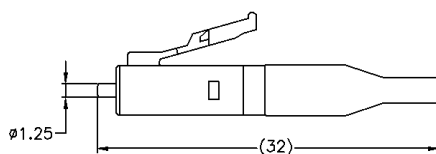| LC Simplex Connectors		Recommended Cable Diameter	Body / Clip	Boot
Part #	Description			
956-332-500314	LC Simplex Connector, Multimode, 127µm Zirconia Ferrule	3.0mm	Beige	Standard White
956-331-590314	LC Simplex Connector, Singlemode, 125.5µm Zirconia Ferrule	3.0mm	Blue	Standard White
956-332-500214	LC Simplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Beige	Standard White
956-334-500214	LC Simplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Black	Standard White
956-331-590214	LC Simplex Connector, Singlemode, 125.5µm Zirconia Ferrule	1.6/2.0mm	Blue	Standard White
956-342-500924	LC Simplex BTW Connector, Multimode, 127µm Zirconia Ferrule	900µm	(BTW) Beige	900µm White
956-341-590924	LC Simplex BTW Connector, Singlemode, 125.5µm Zirconia Ferrule	900µm	(BTW) Blue	900µm white
LC Duplex Connectors		**Recommended Cable Diameter**	**Body / Clip**	**Boot**
Part #	Description			
956-322-502314	LC Duplex Connector, Multimode, 127µm Zirconia Ferrule	3.0mm	Beige	Standard White
956-321-592314	LC Duplex Connector, Singlemode, 125.5µm Zirconia Ferrule	3.0mm	Blue	Standard White
956-322-502214	LC Duplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Beige	Standard White
956-324-502214	LC Duplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Black	Standard White
956-321-592214	LC Duplex Connector, Singlemode, 125.5µm Zirconia Ferrule	1.6/2.0mm	Blue	Standard White
956-312-502924	LC Duplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Beige	900µm White
956-311-592924	LC Duplex Connector, Singlemode, 125.5µm Zirconia Ferrule	1.6/2.0mm	Blue	900µm white

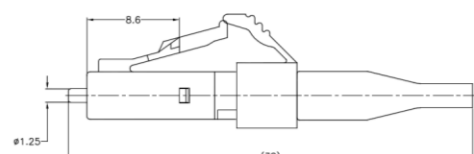*Please contact Amphenol for other configurations

LC Simplex Connector with 1.6/2.0mm Boot

LC Duplex Connector with 1.6/2.0mm Boots
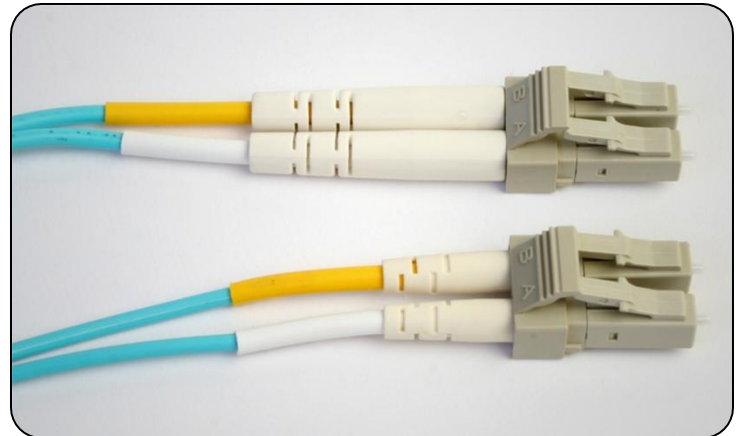
LC Simplex Behind the Wall (BTW) Connector with 900µm Boot

LC Duplex Connector with 900µm Boot

R2

Micro LC Connectors

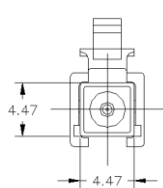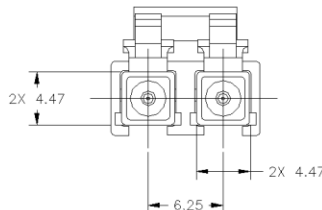- Offers all of the benefits of the Amphenol LC connector, but with the added feature of a shorter length for jacketed cable

- Short LC connector with a short boot

- Length from tip of ferrule to end of boot is 36mm instead of the standard 51mm

- One of the shortest LC connectors for jacketed cable on the market

- Singlemode and multimode versions

- Simplex and duplex versions with removable clips

- Multiple boot color options available

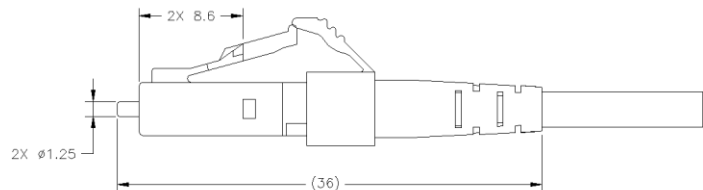- Angled boots also available (50 and 90 degree)

Micro LC connector as compared to standard LC connector

Simplex

Duplex

Micro LC Connector
with 1.6/2.0mm Short Boot

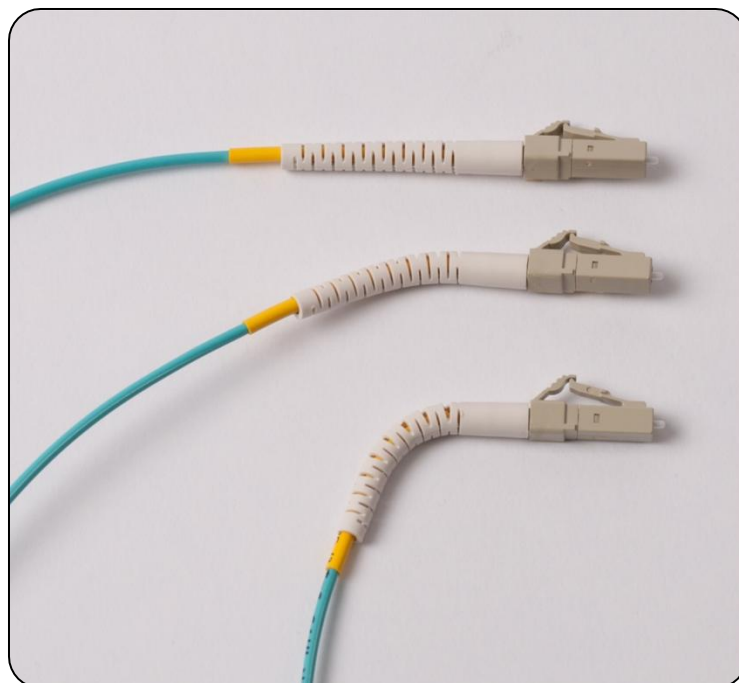## Micro LC Connector Ordering Information*

LC Simplex Connectors		Recommended Cable Diameter	Body / Clip	Boot
Part #	**Description**			
956-302-500304	LC Micro Simplex Connector, Multimode, 127µm Zirconia Ferrule	3.0mm	Beige	Short White
956-301-590304	LC Micro Simplex Connector, Singlemode, 125.5µm Zirconia Ferrule	3.0mm	Blue	Short White
956-302-500204	LC Micro Simplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Beige	Short White
956-301-590204	LC Micro Simplex Connector, Singlemode, 125.5µm Zirconia Ferrule	1.6/2.0mm	Blue	Short White
LC Duplex Connectors		**Recommended Cable Diameter**	**Body / Clip**	**Boot**
Part #	**Description**			
956-302-502304	LC Micro Duplex Connector, Multimode, 127µm Zirconia Ferrule	3.0mm	Beige	Short White
956-301-592304	LC Micro Duplex Connector, Singlemode, 125.5µm Zirconia Ferrule	3.0mm	Blue	Short White
956-302-502204	LC Micro Duplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Beige	Short White
956-301-592204	LC Micro Duplex Connector, Singlemode, 125.5µm Zirconia Ferrule	1.6/2.0mm	Blue	Short White

*Please contact Amphenol for other configurations

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R2

LC Connectors with Flexible Boot

Amphenol's LC connector flexible strain relief boots simplify cable routing in high density panels. The installer can angle the flexible boot on each individual cable to any desired direction to help neatly dress the fibers and improve cable routing. When high density panels are fully populated, the flexible boot is a great benefit over rigid boots for cable routing.

Amphenol's LC connectors are a high density low cost solution without any sacrifice of performance. The Amphenol LC connectors are compliant to the EIA/TIA-604 and IEC 61754 industry standards.

Features/ Benefits

- Flexible strain relief boot protects the cable against signal loss in tight spaces
- Improves cable routing on high density panels
- Flexible boot is bendable in any direction
- Angle can be adjusted from 0 degree to 90 degrees while in the field
- RoHS compliant

Common Specifications

Insertion Loss: ≤ 0.15dB typical, singlemode

≤ 0.25dB typical, multimode

Return Loss: Ultra (UPC) ≤ -55dB*

*Performance is polish dependent

LC Connector with Flex Boot Ordering Information*

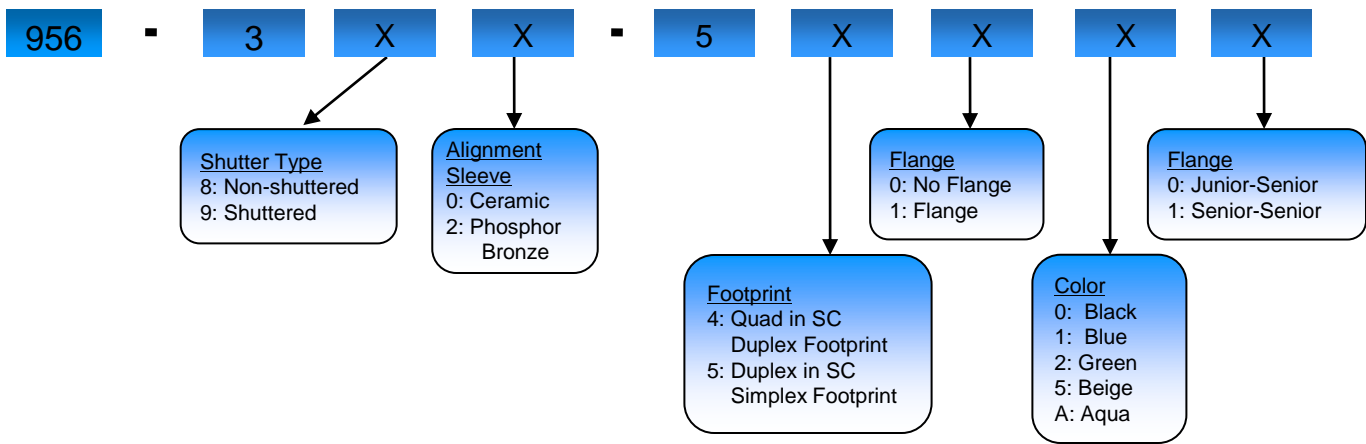| LC Simplex Connectors		Recommended Cable Diameter	Body / Clip	Boot/Color
Part #	**Description**			
956-332-5002F4	LC Simplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Beige	Flexible White
956-331-5902F4	LC Simplex Connector, Singlemode, 125.5µm Zirconia Ferrule	1.6/2.0mm	Blue	Flexible White
LC Duplex Connectors		**Recommended Cable Diameter**	**Body / Clip**	**Boot/Color**
Part #	**Description**			
956-322-5022F4	LC Duplex Connector, Multimode, 127µm Zirconia Ferrule	1.6/2.0mm	Beige	Flexible White
956-321-5922F4	LC Duplex Connector, Singlemode, 125.5µm Zirconia Ferrule	1.6/2.0mm	Blue	Flexible White

*Please contact Amphenol for other configurations

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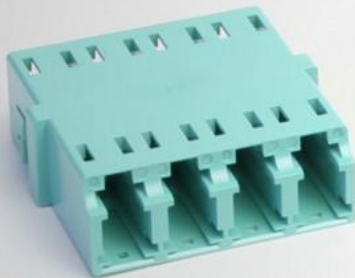Customer Service 800-944-6446

Amphenol LC Adapters

Amphenol's complete range of LC adapter options provide the perfect solution for your high density network needs. The one-piece design is more durable than the typical two-piece design. The adapters meet EIA/TIA, IEC, and Telcordia standards. Amphenol patented* internal shutters are available on most types of adapters.

Ordering Information

| 956 | - | 3 | X | X | - | 5 | X | X | X | X |

Shutter Type
8: Non-shuttered
9: Shuttered

Alignment Sleeve
0: Ceramic
2: Phosphor Bronze

Footprint
4: Quad in SC Duplex Footprint
5: Duplex in SC Simplex Footprint

Flange
0: No Flange
1: Flange

Color
0: Black
1: Blue
2: Green
5: Beige
A: Aqua

Flange
0: Junior-Senior
1: Senior-Senior

LC Multimode Quad Adapter

Contact Amphenol for LC duplex adapter with standard LC footprint options
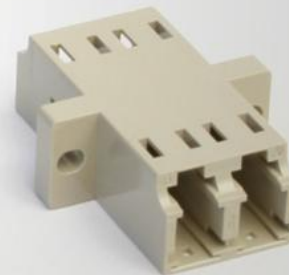
LC Multimode duplex adapter

LC APC duplex adapter

Amphenol patented* internal shutter option

*US Patent No. 6,688,780

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