

LC Connectors and Adapters

CORNING

Features and Benefits

Various options: Boot color, boot type, housing color, EMI shielding, and retractable door for adapters

Unique LC adapters in SC footprint

Single-mode and multimode versions

Proprietary metal rear body for connectors

Compact LC duplex connector for high-density interconnect applications

The 721 Series of LC connectors offers great performance with very high repeatability and low insertion loss. These products are fully intermateable with standard LC-licensed products and deliver long-term stability under a broad range of applications and conditions. These connectors utilize tightly toleranced ceramic ferrules to ensure consistent low loss and ease of assembly. Corning also manufactures an LC adapter family to support LC interconnection.

Standards

| | |
|---------------------------------|--|
| RoHS | Free of hazardous substances according to RoHS2011/65/EU |
| Design and Test Criteria | Complies with TIA-604-10 and IEC 61754-20 |
| | Product is qualified to Telcordia GR-326-CORE |



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Specifications

| LC Connector/721 Series* | Multimode | Single-Mode |
|-----------------------------|----------------------------------|------------------------------------|
| Insertion Loss | 0.2 dB Typical 0.3 dB Maximum | 0.15 dB Typical 0.25 dB Maximum |
| Back Reflection | -25 dB Typical | -55 dB Ultra PC |
| Connection Durability | 500 Matings | 500 Matings |
| Connection Repeatability | Δ IL < 0.2 dB | Δ IL < 0.1 dB |
| Operating Environment | -40°C to +85°C | -40°C to +85°C |
| Temperature Cycling | Δ IL < 0.2 dB | Δ IL < 0.2 dB |
| Vibration Loss Change | Δ IL < 0.2 dB | Δ IL < 0.2 dB |
| Cable Retention Loss Change | > 15 lb | > 15 lb |

| LC Adapter/740 Series* | Multimode | Single-Mode |
|--------------------------|----------------------|----------------------|
| Operating Temperature | -40°C to +85°C | -40°C to +85°C |
| Connection Durability | 500 Matings | 500 Matings |
| Connection Repeatability | Δ IL < 0.2 dB | Δ IL < 0.1 dB |
| Insertion Loss | < 0.3 dB | < 0.3 dB |

Ordering Information

LC Connectors and Adapters

7 2 1 - 0 - 8 0 B

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1 Select ferrule type.

- 1: SM 125 μ m
- 2: SM 126 μ m
- 3: MM 127 μ m
- 4: APC 125 μ m (preangled)
- 5: APC 126 μ m (preangled)
- 6: SM 125.5 μ m

4 Select housing color.

- 3: APC: Green
- 5: SM: Blue
- 7: MM: Beige
- A: MM: Aqua

2 Select body type.

- 1: Simplex
- 3: Simplex with clip
- 5: Duplex with one-piece clip
- 8: Simplex with one-piece clip
- K: Simplex with flexible short boot
- R: Duplex with flexible short boot
- S: 1.2 mm Simplex
- T: 1.2 mm Simplex with clip

5 Select boot color.

- 3: APC: Green
- 8: SM/MM: White

3 Select boot type.

- 1: 900 μ m boot
- 2: 2.0 mm ribbed boot
- 3: 3.0 mm ribbed boot
- 4: 900 μ m short boot
- 7: 2.4 mm ribbed root
- 9: 2.0 mm flexible short boot
- Other: Custom

Color Chart

- 0: Translucent (Cap Only)
- 1: Black 2: Yellow

These part numbers are specific to Corning Optical Communications OEM Solutions Business Unit. Please contact OEM sales at +1-408-736-6900 or oemsales@corning.com and visit www.corning.com/opcomm/oem for sales support.



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Page 2 | Revision date 2019-08-05

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