

Ceramic ferrule lc model specifications table



Summary of Content

LC ceramic ferrules typically have a 1.25mm outer diameter, precise inner diameters for fiber alignment, and are made from high-purity zirconia ceramic for durability and low insertion loss.

Material and Construction

LC ferrules are commonly made from zirconia ceramic, though some variants use alumina. Zirconia offers high durability, excellent concentricity, and low insertion loss, making it ideal for repeated mating cycles in optical connectors. The ferrules can be flanged or non-flanged, with flanged designs facilitating easier handling and precise positioning during assembly.

Dimensions

- Outer Diameter (OD): 1.25mm standard for LC ferrules
- Length: Typically around 6.45mm for single-mode LC ferrules
- Inner Diameter (ID): Polished to match the optical fiber, with tolerances as tight as $\pm 0.001\text{mm}$ in concentricity and $\pm 0.0005\text{mm}$ in eccentricity for single-mode applications
- Tolerance: Submicron-level precision for OD and ID to ensure proper fiber alignment and minimal connection loss

Performance Characteristics

Article Content

LC Ceramic Ferrule with Flange | Fiber Optic

For insertion loss lower than 0.15dB, 0.5um concentricity is required. For insertion loss lower than 0.1dB,

Zirconia Ceramic Ferrule – LC/SC/FC Universal, Customizable Size ...

Standard LC, SC, FC and ST ferrules fit all mainstream connector housings (e.g., from Senko, Diamond, Sumitomo, Tyco). For

LC-Type Ceramic Ferrule for Fiber Optic Connectors

UPCERA manufactures LC ferrules with strict dimensional control to guarantee consistent quality and performance in both single

Ferrule | PRODUCTS | SEIKOH GIKEN

Click link below for detailed Ferrule drawings and specifications. Adobe Reader is required to open the pdf files above. Click here to

Ceramic Ferrule, LC, SC, FC, MU, ST / Fiberwe Technologies Co., Ltd.

The ferrules have a precise hair-thin Inner Diameter (ID) for aligning the optical fiber with various ODs. The ferrule's ID is polished to

LC Zirconia Ferrule

LC Zirconia Ferrule LC Zirconia Ferrule, Single-Mode type Full Size PDF Drawing ... LC Zirconia Ferrule, Multi-Mode type Full Size

LC Ceramic Ferrule with Flange | Fiber Optic Communication Provider

For insertion loss lower than 0.15dB, 0.5um concentricity is required. For insertion loss lower than 0.1dB, 0.3um concentricity is

Ceramic Ferrule Specifications

SN10 10.7 ± 0.35 14.8 ± 0.40 13.3 ± 0.35 18.1 ± 0.45 5.3 ± 0.20 10.1 ± 0.35 4.0 ± 0.15 16
SR10 10.7 ± 0.35 15.0 ± 0.40 18.1 ± 0.45

Zirconia Ceramic Ferrules, LC Ferrules, SC Ferrules

Available zirconia ferrule types from Sinocomms are SC, FC, LC, ST, MU, SMA with flat, dome, cone, step, or pre-angled end-faces.

Zirconia Ceramic Ferrule – Rosen Ceramic Components

High performance fiber optic connectors used in environments requiring durability after repeated mating, Low insertion loss and low

LC Ferrule Assembly

LC Ferrule Assembly LC Zirconia Ferrule, Multimode, with standard Flange Full Size
PDF Drawing ... * Also available with custom

Contact Us

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