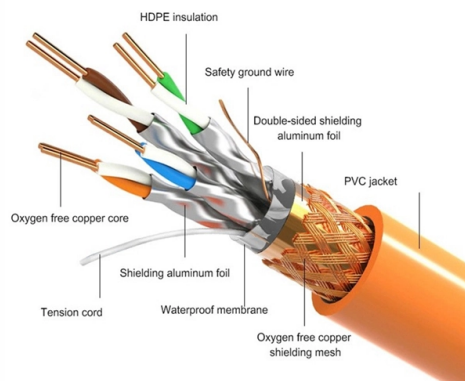


How to set the origin point of a ceramic ferrule PC

PRODUCT DETAILS



AI Overview

The origin point of a ceramic ferrule PC is set by aligning the fiber apex to the ferrule's spherical or planar reference surface, ensuring minimal apex offset and proper physical contact. Understanding the Ferrule and PC Connector

A ceramic ferrule is a precision component that holds the optical fiber in a fixed, central position, typically made of zirconia for its stability, hardness, and thermal compatibility with glass fibers. In a PC (Physical Contact) connector, the fiber endface is polished to a slightly convex shape to ensure direct contact with the mating fiber, reducing back reflection and insertion loss.

Defining the Origin Point

The origin point refers to the reference apex of the ferrule's endface, which is used to measure fiber protrusion, apex offset, and planar height. Properly setting this point ensures that the fiber core aligns with the connector axis and the mating fiber:

- Apex Offset:** The distance between the highest point of the ferrule sphere and the fiber core center. Ideally, this should be minimized to maintain optimal contact.
- Planar Height:** The difference in height between the fiber tip and the theoretical plane of the ferrule surface. This is used to assess fiber protrusion and undercut.

Procedure to Set the Origin Point

- Mount the Ferrule in a Jig:** Use an Individual Pressure Control (IPC) fixture or spring-loaded adapter to hold the ferrule securely while allowing slight movement for uniform polishing.
- Initial Polishing:** Begin with a coarse lapping film (e.g., silicon carbide) to remove epoxy and achieve a consistent fiber protrusion. Apply minimal hand pressure and rotate gently to avoid fiber breakage.
- Check Fiber Height:** Measure the fiber tip relative to the ferrule surface using a microscope or interferometer. Adjust the ferrule position in the jig to align the fiber apex with the reference plane or spherical surface.
- Fine Polishing:** Progress through finer lapping films or diamond fil...

Article Content

APC Polishing Advice to Improve Apex Offset & Angle Measurements

Apex Offset is a fairly simple concept to understand in PC polishing. With PC ferrules, the intention is to hold the ferrule at a 0.0 degrees vertical angle during polishing (perpendicular to the

Ceramic Ferrule: Precision Alignment for Fiber Optic Connectors

Precision of bore opening size and tight-tolerance fit between ceramic ferrules and fiber cores are keys to optimal ceramic ferrule performance. End face geometry (rounded or flat finish),

Zirconia Ceramic Ferrules | Advanced Ceramics | Edgetech Industries

First, the specially treated yttrium-stabilized nano-zirconia powder raw material is granulated and then injection molded in a special mold, and then sintered into a blank at high

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Ceramic Ferrule Installation | Blasch

Watch how quickly and easily our ceramic ferrules can be installed. Interested in more information about our process or products?

Polishing Best Practices

The acceptable 3D end-face geometry for ceramic ferrules is defined by GR-326-CORE, "Generic Requirements for Single-mode Optical Connectors and Jumper Assemblies," in North America, and

Fiber Ferrule Explained: Types, Materials & Use Cases

Zirconia ceramic ferrules are the top pick because they last long and do not change with heat in fiber optic networks. Pick the right ferrule type (PC, UPC, APC) for your network to help it

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Optical fiber connector

Optical fiber connectors are used to join optical fibers where a connect/disconnect capability is required. Due to the polishing and tuning procedures that may be incorporated into optical connector

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Stainless Steel and Ceramic Fiber Optic Ferrules

These Ø1.25 mm ceramic (zirconia) ferrules feature a nickel plated brass flange and are available with bore sizes from Ø126 µm to Ø440 µm. The flange provides a simple, robust way to interface the

SC Ferrule Assembly

SC Ferrule Assembly SC-PC Zirconia Ferrule, Multimode, with standard Flange Full Size PDF Drawing * Also available with custom ferrule ID sizes

How to precisely align the fiber end faces of fiber optic connectors ...

One is the ceramic ferrule with precise inner diameter, outer diameter and concentricity, and the other is the ceramic sleeve with slits. This ceramic sleeve is a very clever design. From Figure 1.2, we can

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