



EPOXY & POLISH CONNECTOR

Product Overview

The FiberCore Epoxy & Polish Connector is a fiber optic connector where the optical fiber is permanently fixed inside the ferrule using epoxy resin, which is then cured to secure the fiber. After curing, the fiber is precisely cleaved and polished in the field to achieve the required end-face type (PC, UPC, or APC). This process requires skilled technicians and specialized tools, but it produces the lowest insertion loss and highest return loss, making it the preferred choice for high-performance, long-term, and mission-critical applications such as data centers, telecom backbones, and patch panels.

Features

- Fiber permanently fixed inside ferrule using epoxy resin for stable alignment
- Cured, cleaved, and polished in the field to achieve PC, UPC, or APC end-face finish
- Provides very low insertion loss (0.1–0.3 dB) and high return loss
- Ensures durable, long-term stability under temperature and mechanical stress
- Ideal for high-performance applications such as data centers, telecom backbones, and patch panels
- Compatible with standard connector types (SC, LC, FC, ST)

Applications

- Data centers with high-density, low-loss requirements
- Telecommunication backbones and long-haul fiber links
- Patch panels and optical distribution frames
- Enterprise networks requiring durable, long-term performance

Technical Performance

Connector Type	Epoxy & Polish Connector
Insertion Loss (IL)	≤ 0.20–0.30 dB (SM & MM)
Return Loss (RL)	PC ≥ 45 dB, UPC ≥ 55 dB, APC ≥ 60 dB
Mechanical Durability	≥ 500 cycles

Ordering Information

Description	Part No.
Epoxy Connector	FC-38-E-xxx

Note: Please ask the Sales Representative for the exact model, as there are different connector types and modes available.



Want to know more about FiberCore?

For more information visit www.fibercore-plus.com or contact sales@fibercore-plus.com

V1.0 - 09012025