

fiber optic connectors

Description

Fiber Optic Connector provides reliable, high-performance connections for single-mode and multi-mode fibers. Available in SC, LC, FC, and ST types with UPC or APC polish. Designed for FTTH, FTTx, telecom, and data networks, offering low insertion loss, high return loss, and durable, easy-to-install performance.

Applications

- Patch cords and pigtails for data centers
- Fiber distribution frames and terminal boxes
- FTTH/FTTB access networks
- Telecom central offices
- CATV and LAN systems
- Test equipment and laboratory use



Product Specifications

Structure, Materials & Applications	
Connector Types	SC – Push-pull, square body LC – Small form factor, high-density panels FC – Threaded coupling, stable environments ST – Bayonet-style, legacy systems Available in Simplex, Duplex, Quad
Polishing Types	UPC – Low insertion loss, moderate return loss APC – 8° angled end-face, superior return loss ≥60 dB
Fiber Compatibility	Single-mode (OS2) or Multi-mode (OM1/OM2/OM3/OM4) Standard 125 μm ferrule diameter (zirconia ceramic)
Materials	Zirconia ferrule for precision alignment Plastic or metal housing, color-coded (blue: SM UPC, green: SM APC)
Assembly Options	Factory pre-terminated or field-installable Compatible with standard crimping tools, epoxy/polish or no-epoxy solutions

Performance Table

Connector Type	Insertion Loss (dB)	Return Loss (dB)	Durability (Mating Cycles)
SC	≤ 0.3 (UPC), ≤ 0.3 (APC)	UPC ≥ 50 , APC ≥ 60	≥ 1000
LC	≤ 0.3 (UPC), ≤ 0.3 (APC)	UPC ≥ 50 , APC ≥ 60	≥ 1000
FC	≤ 0.3 (UPC), ≤ 0.3 (APC)	UPC ≥ 50 , APC ≥ 60	≥ 1000
ST	≤ 0.5 (UPC)	UPC ≥ 50	≥ 1000