

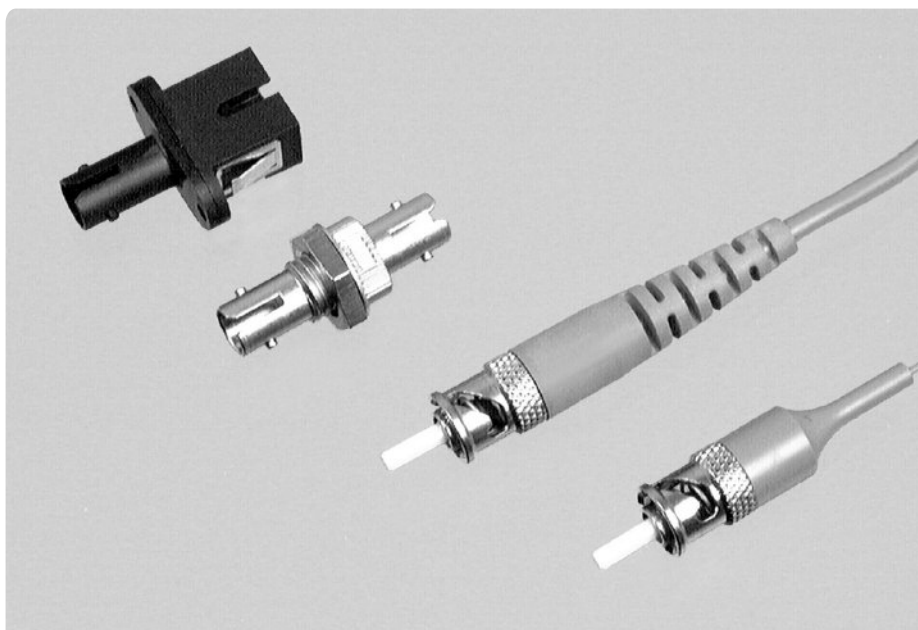
ST® OPTICAL ASSEMBLIES

DESCRIPTION

The widely used ST® optical connector combines high performance, low cost and ease of use in one highly reliable package. The twist-lock bayonet coupling mechanism ensures quick, low loss and highly repeatable connections.

All FCI optical cable assemblies are manufactured to the customer's specifications and with the highest standards of quality. Each jumper, pigtail or fan-out is thoroughly tested and shipped with a data package that can be tailored to specific requirements.

Custom design services and rapid prototyping are offered to speed product development.



FEATURES & BENEFITS

- Connectors and adapters are optically and mechanically compatible with Lucent Technologies' ST® and STII® connectors and their functional equivalents
- ST® single-mode and multi-mode connectors and adapters are precision ST® compatible interfaces manufactured to exceed industry performance specifications
- The precision manufactured ceramic ferrules are pre-radiused and are highly concentric
- The ST® connectors utilize a crimp-on cable retention system
- Connectors are intermateable with other standard Lucent Technologies equivalent connector systems
- The ferrule uses minimize insertion loss and return loss
- Crimp-on cable retention system creates a superior load carrying capability

TARGET MARKETS / APPLICATIONS

- Datacom
- Medical
 - Local area networks
 - Premises distribution
 - Computer peripheral interconnection
 - Medical laser delivery

ELECTRICAL PERFORMANCE

- Insertion loss (IAW EIA FOTP 171)
 - Single-mode 0.20 dB typical, 0.50 dB maximum
 - Multi-mode 0.15 dB typical, 0.50 dB maximum
- Return loss
 - PC 45 dB typical, 40 dB maximum
 - UPC 55 dB typical, 50 dB maximum

MECHANICAL PERFORMANCE

- End face
 - Polish radius 10 to 25 mm
 - Fiber extension +/- 0.05 µm
 - Apex offset 50 µm
- Durability 0.2 dB change
 - (IAW Bellcore GR-326) after 200 matings
- Operating temperature -40°C to +85°C
 - (IAW Bellcore GR-326)

OPTIONS

- Cable
 - Single-mode or multi-mode fiber
 - 3.0 mm or 0.9 mm cordage
 - Simplex, duplex or multifiber
 - Riser or plenum rated
- Connector
 - PC or UPC finish
 - Pull proof to 10 lbs. (non-optical disconnect)
- Adapters
 - Phosphor-bronze or zirconia ceramic alignment sleeve
 - Metallic or molded housing
 - Threaded or flange housing
 - PC
 - Hybrid

PACKAGING

- Heat Sealed bags