High Reliability FC's
Fiber Optic Connectors and Adapter

High Reliability FC Connector

STRAN Technologies' High Reliability FC connectors have been designed for applications requiring excellent reliability in high shock, vibration, temperature and vacuum environments. All connector body parts are precission machined nickel plated brass. The FC's are available in a standard length and a short body version, ideal for tight spaces. The best choice for high reliability applications. Some of the applications supported by STRAN's High Reliability FC's and adapter include:

- Navy Shipboard applications
- Deployable military tactical networks
- Oil and Gas surface applications
- Homeland security and surveillance
- Harsh industrial installations
- Emergency restoration systems.
- Cabinet mounted communication systems

Some of the key features of this connector and adapter include:

- TIA/EIA 604 compliant
- Compatible with FC style adapters
- Adapter compatible with FC style connectors
- Pre-radiused zirconia ferrule to minimize field polishing
- Nickel plated brass components and zinc plated steel music wire spring
- Field installable and maintainable
- Split zirconia sleeve for improved insertion loss
- Components are DFAR compliant, machined, finished and assembled in the USA
- Compatible with standard hand and machine polishing equipment

High Reliability FC-FC Adapter

MILITARY TACTICAL
MILITARY SHIPBOARD
ENERGY
MINING
AEROSPACE
COMMERCIAL

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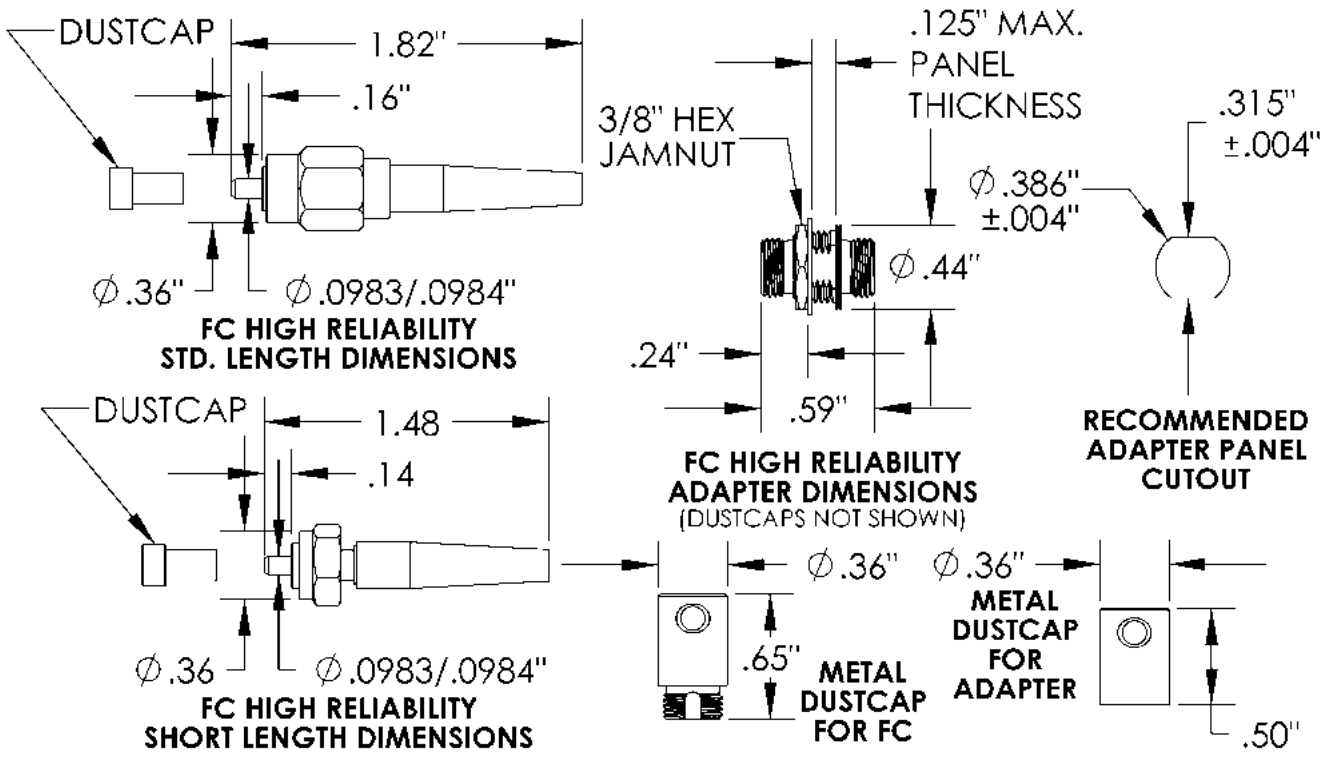

Connector and Adapter Performance Criteria:	
Optical Insertion Loss	9/125 µm: 0.50 dB_{max}, 0.35 dB_{typ} 62.5/125 µm: 0.50 dB_{max}, 0.14 dB_{typ}
Return Loss	>30 dB MMF, >45 dB SMF with PC polish
Mating Durability	500 cycles per EIA-455-21
Boot Outgassing	Average value TML < 1%, Average value CVCM < 0.1% per ASTM E595-90
Torque	6.5 in-lb
Withdrawal Force	200-600 grams
Tensile Loading	20lb for 1 minute
Operating Temperature	-45°C to +110°C (epoxy dependent)
Cable Retention	> 22 Lbs