



ST Connector & Adapter

About MIL-ST

Amphenol Fiber Systems International (AFSI) offers rugged military fiber optic ST connectors for deployable and fixed communication system requirements. AFSI's connectors are designed to provide the best possible optical performance in applications with severe environmental conditions.

Various versions of connectors and adapters are available to meet a broad range of specific needs and system requirements. The M83522 connector is qualified for military applications and features a higher spring force than commercial ST connectors, allowing it to meet the shock requirements of MIL-C-83522.

Commercial-off-the-Shelf (COTS) ST connectors provide the same robustness with a spring force more consistent with commercial ST connectors, enabling them to connect effectively with other ST connectors and ancillary electronics.

Features and Benefits

- Super and Ultra-PC polish capabilities
- High grade stainless steel body (17-4 SS) with zirconia ceramic ferrule and fungus-resistant self-extinguishing boot
- Superior optical performance in extreme environmental conditions
- MIL-qualified series: high spring force for shock and vibration resistant critical in military applications
- Navy approved COTS: for moderate shock and vibration environments

Options

- M83522/16- DNX, - DNY
- MSTC1100, MSTC2100 (Navy Approved COTS)
- M83522/17- NY

Applications

- US Navy shipboard, surface and submarine, mission critical combat and communications systems
- Mobile tactical shelters
- Electronic battlefield networks
- Mobile emergency telecommunications stations
- Deployable outdoor, harsh environment

Materials

- Ferrule: zirconia
- Body: stainless steel
- Boot: fungus resistant, self-extinguishing thermoplastic

How To Order

For more information on how to order or to obtain a price quote on any of our ST connectors, please call us at 800.472.4225. For international calls please dial 1.214.547.2400 or email us at info@fibersystems.com.

About Amphenol Fiber Systems International

Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports reliable and innovative fiber optic interconnect solutions that withstand the harsh environments of military, oil & gas, mining and broadcast applications. After more than a decade in business, AFSI continues to uphold its position as a global leader in fiber optic interconnect components and systems such as termini, M28876, MIL-ST, TFOCA and the TFOCA-II® connector, which AFSI developed and patented. Altogether, AFSI has delivered millions of fiber optic connectors worldwide. Whenever there is a need for superior cost-effective fiber optic systems and products that will stand up to demanding operating environments, you can rely on AFSI for engineering know-how, top-quality products and expert technical support.

For more information about AFSI, please visit our web site at www.fibersystems.com

MIL-C-83522 Connector Performance Specifications

Specification

Insertion Loss
Return Loss
Tensile Loading
Mating Durability
Impact
Dust
Thermal Shock
Vibration
Temperature Humidity
Salt Spray
Flammability
Temperature Cycling
Shock
Fungus Resistant

Measurement Requirement

< 0.75 dB (MIL-C-83522 allows for <1.0 dB)
> 30 dB (multimode)
> 230 N
> 500 cycles
8 times, 1.5 meters
MIL-STD-202, Method 110
MIL-STD-1678, Method 4020
MIL-STD-1344, Method 2005
DOD-STD-1678, Method 4030
MIL-STD-1344, Method 1001
MIL-STD-1344, Method 1012
-55°C to 125°C Op, -65°C to +200°C Non-Op
MIL-STD-901D, Grade A, Type A, Class I
MIL-STD-810, Method 508

ST Connector Typical Performance Specifications

Specification

Insertion Loss (typical)
Return Loss

Inspection Detail

EIA/TIA-455-34, Method A
EIA/TIA-455-107

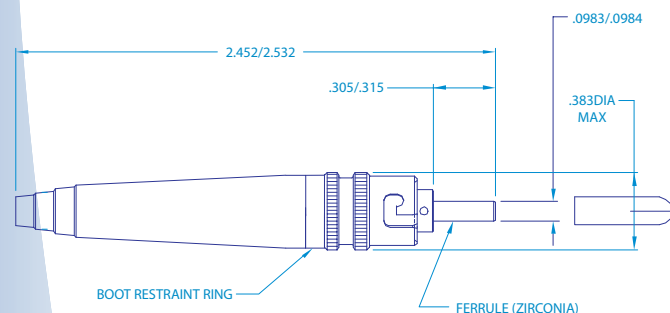
Single Mode

-0.2 dB
-50 dB

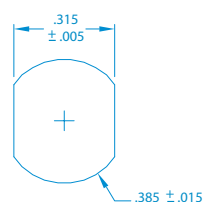
Multimode

-0.3 dB
-30 dB

Military ST Connector



Panel Cutout



Military ST Adapter

