



### About FS12 Pierside

The Amphenol Fiber Systems International (AFSI) FS12 Pierside fiber optic cable connector from Fiber Systems International is for harsh environment applications having both single mode and multimode capabilities. These connectors use field-proven MIL-PRF-29504 termini.

AFSI's FS12 Pierside connector design provides flexibility for current and future Navy communication requirements both afloat and ashore.

Removable termini are qualified to MIL-PRF-29504 specifications enabling quick connector reconfiguration and field maintainability. These connectors from AFSI are designed for installation into Pierside cables IAW MIL-STD-2042 B Part 7 (Pierside Connectivity Cable Assemblies and Interconnection Hardware).

### Features and Benefits

- **Hermaphroditic design:** Enables plug-to-plug or plug-to-receptacle connectivity
- **12-channels**
- **Rugged design:** The FS12 Pierside connector is designed to handle the rigors of deployment and harsh environment conditions of both industrial and military situations

- **Environmentally Sealed Connector:** Fiber Systems International designed the Pierside connector series with sealed termini to ensure environmental integrity
- **Military qualified MIL-PRF-29504 /14 & /15 Termini:** Designed to take advantage of tight tolerances of commercial ceramic ferrules and sleeves allowing either single mode or multimode fibers
- **Removable Insert Cap:** For ease of socket termini cleaning
- **Captive Insert Cap Screw:** To prevent dropped and lost screw during cleaning or repair
- **Sealed Termini:** To keep optical path clear under extreme environmental conditions
- **Field repairable**

### Applications

- U.S. Army, Navy, Air Force and Marine Corp tactical and strategic deployments
- Pierside and shipboard
- Umbilical cables used to interface between shore and ship networks
- Oil, gas, and geoscience industries
- Industrial
- Broadcast
- Mobile deployment

### How to Order

For more information on how to order or to obtain a price quote on any of our FS12 Pierside Products, please call us at 800.472.4225. For international calls please dial 214.547.2400 or email us at [info@fibersystems.com](mailto:info@fibersystems.com)

### FS12 Pierside Connector Specifications

#### Specification

Fiber type

Insertion loss

Operating temperature

Shock

Vibration

Cable retention

Twist

Cable seal flexing

Mating durability

Impact

Crush resistance

Flammability

EMI shielding

#### Measurement/Detail

62.5/125 multimode or 9/125 single mode

62.5/125 multimode fiber -0.3dB typical

9/125 single mode fiber -0.4dB typical.

-46 °C to +71 °C

EIA/TIA-455-14, Condition A

MIL-STD-1344, Method 2005.1

400 pounds minimum per EIA/TIA-455-6 (applies to plug and strain relief receptacles only)

1000 cycles per EIA/TIA-455-36

100 cycles per MIL-STD-1344, Method 2017, Procedure I

2000 cycles per EIA/TIA-455-21

EIA/TIA-455-2

450 pounds minimum per EIA/TIA-455-26

MIL-STD-1344, Method 1012

(Receptacles only)

Greater than 60 dB average H-field effectiveness 15kHz to 15MHz<sup>2</sup>.

Greater than 67dB E-field effectiveness 15kHz to 10Ghz

### 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<sup>®</sup> connector, which AFSI developed and patented. Altogether, AFSI has delivered millions of fiber optic connectors in more than 22 countries. 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](http://www.fibersystems.com)

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