

## FS12 Pierside



**Amphenol Fiber Systems International (AFSI) manufactures a complete line of next generation fiber optic connectors designed to meet the needs of harsh environment applications.**

Amphenol Fiber Systems International's (AFSI) FS12 fiber optic connector is for harsh environment, broadcast and pierside applications. This connector is available in either single mode or multimode and uses field-proven MIL-PRF-29504 termini.

The 12-channel FS12 Pierside connector design provides flexibility for current and future Navy communication requirements both afloat and ashore. This connector is also ideal for high fiber-count tactical broadcast networks. Removable termini, qualified to MIL-PRF-29504 specifications, enables quick connector reconfiguration and field maintainability.

### Features & Benefits :

- **Hermaphroditic Design:** Enables plug-to-plug or plug-to-receptacle connectivity.
- **Rugged Design:** FS12 Pierside connector handles the rigors of deployment and harsh environment conditions for both industrial and military applications.
- **Environmentally Sealed Connector:** Ensures environment integrity
- **Military Qualified MIL-PRF-29504/14 & /15 Termini:** Takes advantage of tightly toleranced commercial ceramic ferrules and alignment sleeves allowing either single mode or multimode use.
- **Removable Insert Cap:** Enables ease of socket termini cleaning.
- **Captive Insert Cap Screw:** Prevents loss of screw during cleaning or repair.
- **Sealed Termini:** Keeps the optical path clear under extreme environmental conditions.
- **Field Repairable Using Existing Parts:** Additional connector components (other than termini) are not required to perform field repair.

**Amphenol Fiber Systems International, Inc. | 1300 Central Expressway N, Suite 100 Allen, TX 75013**

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Amphenol Fiber Systems International (AFSI), a division of Amphenol Military & Aerospace Operations (AMAO), is the largest manufacturer of harsh environment fiber optic cable assemblies & connectors in the world. Visit AMAO at [amphenolmao.com](http://amphenolmao.com).

## FS12 Pierside

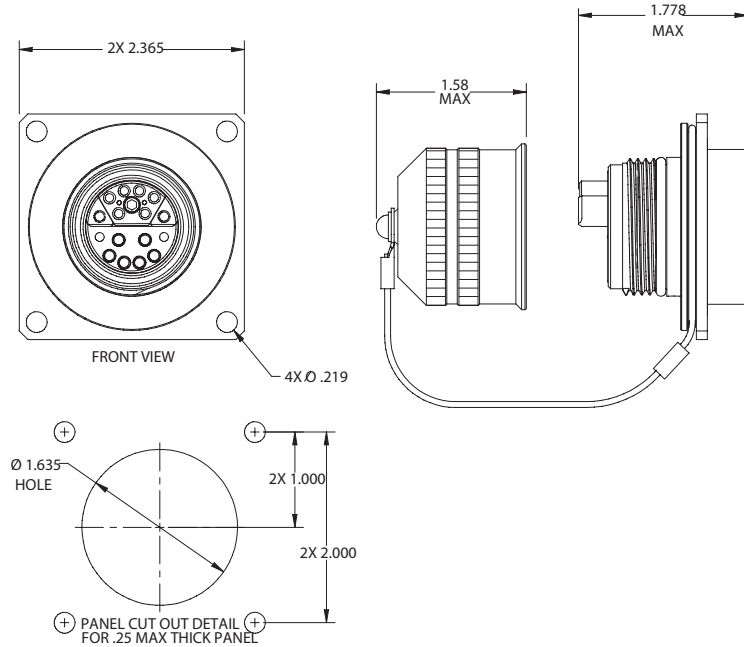
### Applications:

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

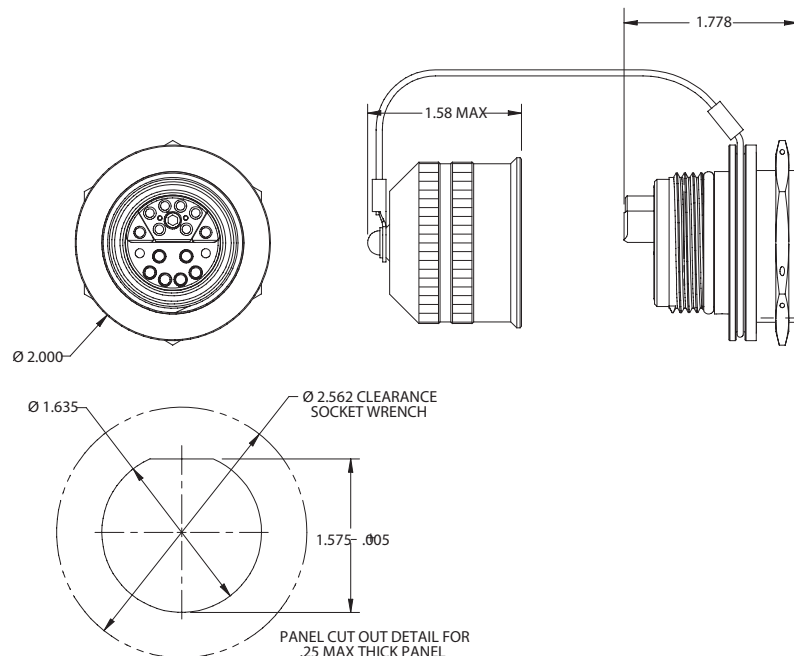
### FS12 Pierside Connector Specifications:

Specification	Measurement/Detail
Fiber Type	62.5/125 multimode or 9/125 single mode
Insertion Loss	62.5/125 multimode fiber -0.3dB typical, 9/125 single mode fiber -0.4dB typical
Operating Temperature	-46 C to 71 C
Shock	EIA/TIA-455-14, Condition A
Vibration	MIL-STD-1344, Method 2005.1
Cable Retention	400 pounds minimum per EIA/TIA-455-6
Twist	1000 cycles per EIA/TIA-455-36
Cable Seal Flexing	100 cycles per MIL-STD-1344, Method 2017
Mating Durability	2000 cycles per EIA/TIA-455-21
Impact	EIA/TIA-455-2
Crush Resistance	450 pounds minimum per EIA/TIA-455-26
Flammability	MIL-STD-1344, Method 1012
EMI Shielding Effectiveness (*Receptacles Only*)	Greater than 60 dB average

### FS12-6000 Pierside Hermaphroditic Flanged Receptacle w/ Panel Cutout:



### FS12-8000 Pierside Hermaphroditic Rear Jam Nut Receptacle w/ Panel Cutout:



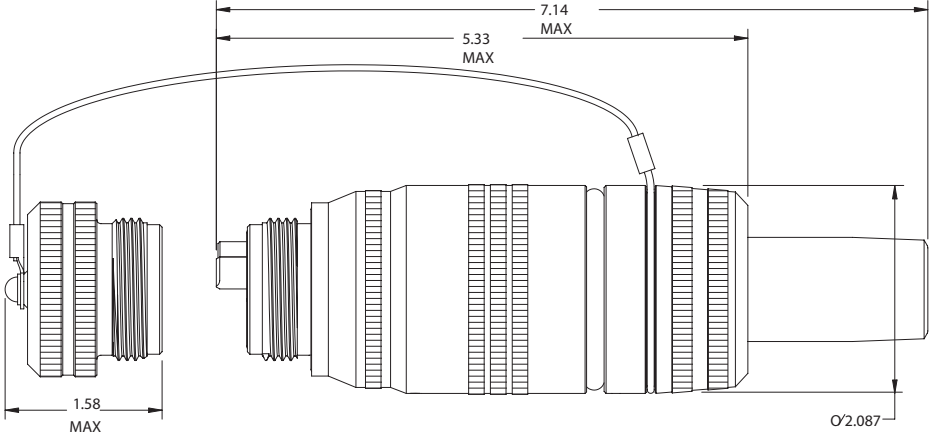
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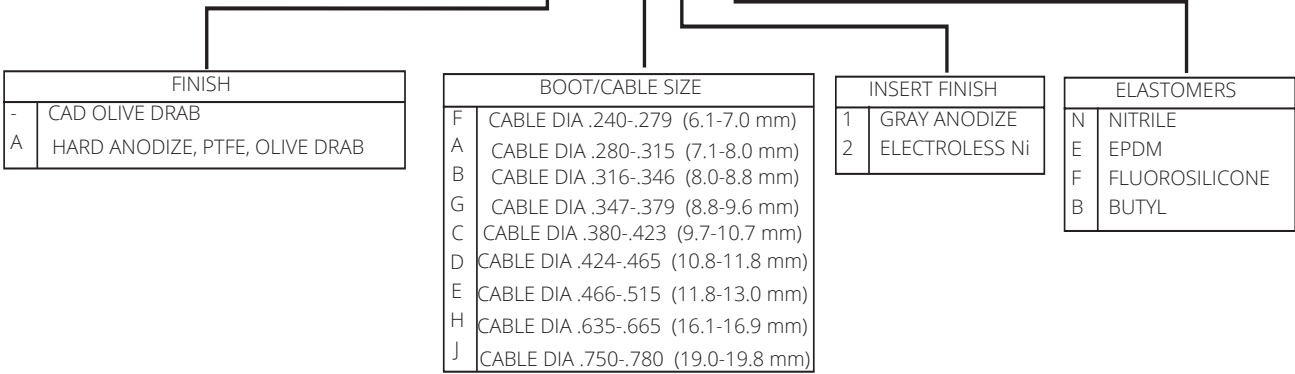
### FS12-1000 Pierside Hermaphroditic Plug:



### FS12 Pierside Connector Part Number Configuration:

**Product Name**  
FS12 Pierside Plug

**Product Number**  
FS12X1000 X X-1 X



Example Part Number - FS12A1000F1-1N  
FS12 Pierside Plug; Hard Anodize, PTFE, Olive Drab Finish; Cable Dia .240-.279; Gray Anodize; Nitrile Elastomers

- FS12 Pierside Hermaphroditic Flanged Receptacle FS12-6000-1
- FS12 Pierside Hermaphroditic Jam Nut Receptacle Rear FS12-8000-1
- FS12 Pierside Hermaphroditic Jam Nut Receptacle Front FS12-8080-1

## FS12 Pierside

### How to Order :

For more information on how to order or to obtain a price quote on our FS12 Pierside products, call toll free (U.S. only) at 800.472.4225, international calls please use 1.214.547.2400 or e-mail [info@fibersystems.com](mailto:info@fibersystems.com).

### Amphenol Fiber Systems International (AFSI) :



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 two decades 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.

AFSI has delivered millions of fiber optic connectors in more than 34 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.

Visit [www.fibersystems.com](http://www.fibersystems.com) for more information.

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