



*FS12 Pierside
Plug*

*FS12 Pierside
Receptacle*



About FS12 Pierside

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 and 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 environmental 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.

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 geoscience industries
- Industrial



*FS12 Pierside Plugs
on Hannay Reel*

FS12 Pierside Connector Specifications

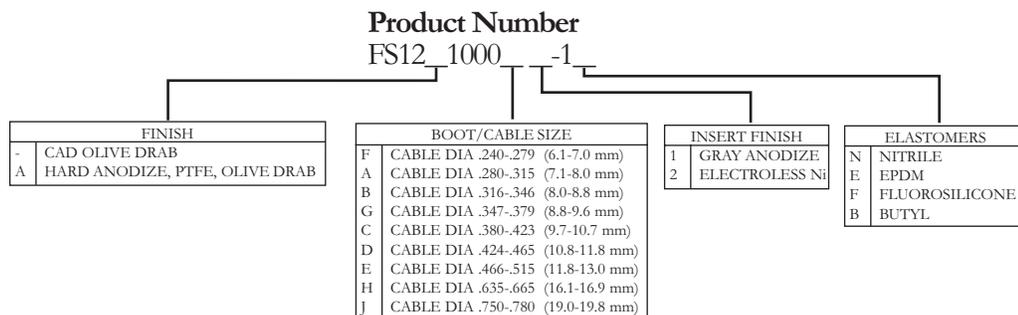
Specification	Measurement/Detail
Fiber type	62.5/125 multimode or 9/125 single mode
Insertion loss	62.5/125 multimode fiber -0.3dB typical, 9/125 single mode fiber -0.4dB typical
Operating temperature	-46 °C to +71 °C
Shock	EIA/TIA-455-14, Condition A
Vibration	MIL-STD-1344, Method 2005.1
Cable retention	400 pounds minimum per EIA/TIA-455-6 (applies to plug and strain relief receptacles only)
Twist	1000 cycles per EIA/TIA-455-36
Cable seal flexing	100 cycles per MIL-STD-1344, Method 2017, Procedure I
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

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

FS12 Pierside Connector Part Numbers

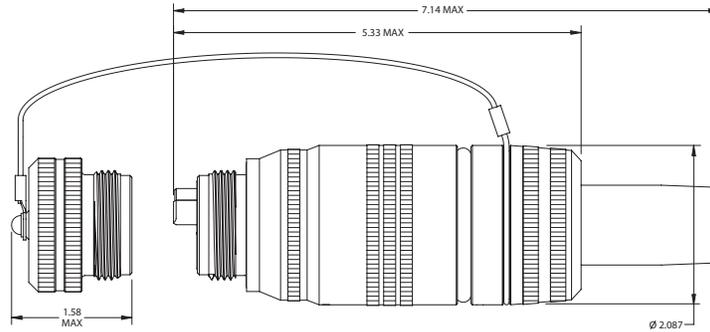
Product Name
FS12 Pierside Plug



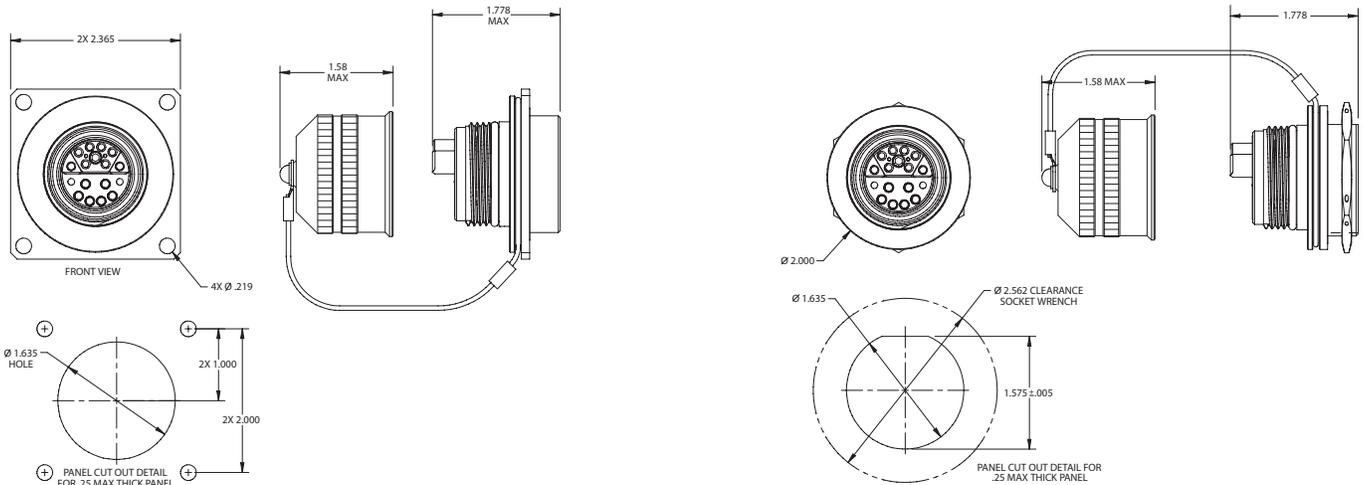
Example Part Number - FS12A1000F1-1N

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

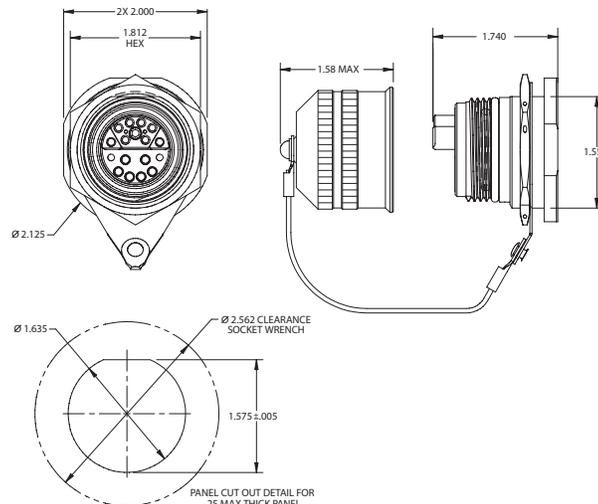


FS12-1000 Pierside Hermaphroditic Plug



FS12-6000 Pierside Hermaphroditic Flanged Receptacle with Panel Cut Out

FS12-8000 Pierside Hermaphroditic Rear Jam Nut Receptacle with Panel Cut Out



FS12-8080 Pierside Hermaphroditic Front Jam Nut Receptacle with Panel Cut Out

*Drawings are not to scale.
Measurements are in inches.*

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 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

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