



*FS8H 12-Channel Plug*

### About the FS8H 12-Channel Connector

The FS8H 12-channel fiber optic connector is ideal for the environmentally harsh conditions of out-door broadcast systems.. The unique FS8H connector series is designed and patented by Amphenol Fiber Systems International.

This design takes advantage of the latest in fiber optic connectivity technology by utilizing industry standard physical contact ceramic ferrules.

The FS8H connector is designed for minimal maintenance in the field. However, if field level repair and cleaning are required, all FS8H connectors can be fully field repaired reusing all components with the exception of the termini. It has a removable end cap allowing direct access to the alignment sleeve and termini.

### Features and Benefits

- **Hermaphroditic Design for Versatility** - Enables multiple FS8H plug assemblies to be concatenated.
- **Removable End Cap** - Allows for easy field maintenance and cleaning.
- **Improved Cable Retention Strength** - Designed to meet 400lb. pull strength while protecting fibers from stress.

- **PTFE Impregnated Hard Anodized Coating** - Provides substantial longevity to corrosive environments in matte or glossy finish. Meets new mandate set by Environmental Protection Agency for elimination of heavy metal plating and is RoHS compliant.
- **Commercial Ceramic Ferrule Technology** - Enables SF8H connector to provision multimode and single mode interconnect with a variety of polishes including SPC and UPC.
- **Solid Core Alignment Sleeves** - More robust than split alignment sleeves.
- **Hermaphroditic Dust Cap** - Plug and/or receptacle dust caps connect together to prevent dust and moisture penetration during deployment.
- **Optional Key Positions** - Four key positions (1,2,3, universal) available, enabling segregation of mated plug/receptacles or plug/plug, through mechanical interface.
- **Field Repairable Using Existing Parts** - Additional connector components (other than termini) are not required to perform field repair.
- **Also Available in Stainless Steel and Brass** - Allows the connector to be used in a variety of applications.

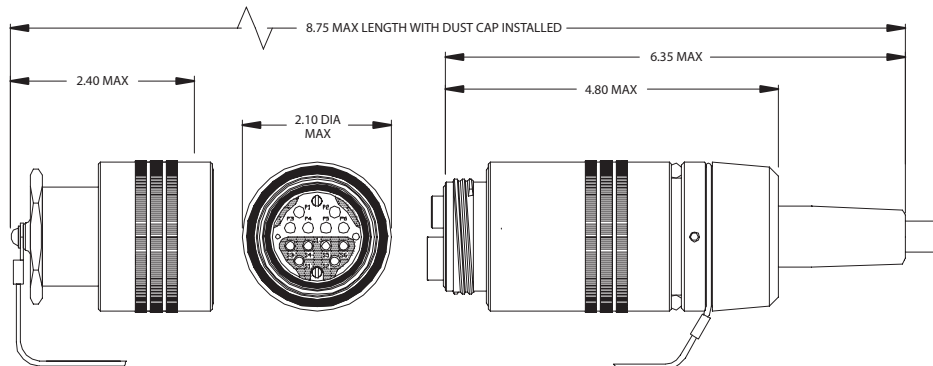
### Applications

- Broadcast
- Industrial
- U.S. Army, Navy, and Marine Corp military tactical deployments or strategic installations
- Oil, Gas and Geoscience industries
- Mining

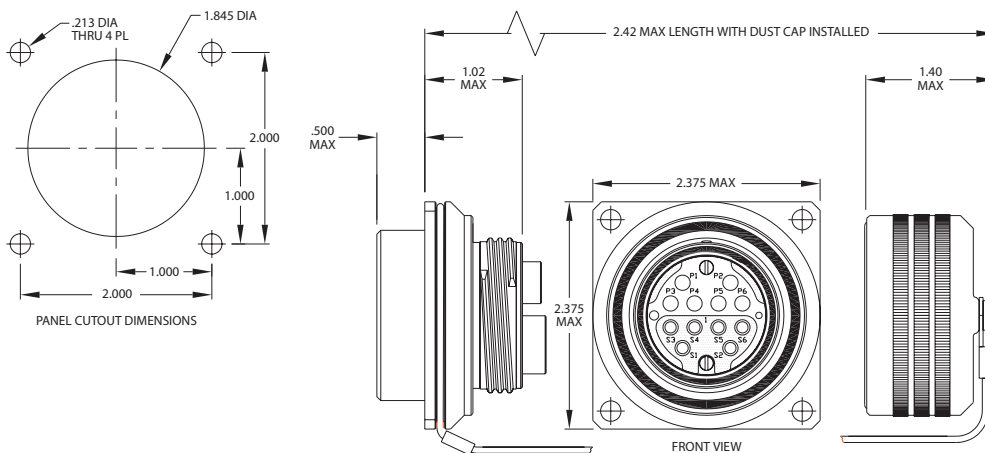
### FS8H 12-Channel Connector Specifications

Parameter	Typical	Maximum
Insertion loss (multimode)	0.30dB	0.75dB
Insertion loss (single mode)	0.40dB	0.75dB
Back reflection (single mode-UPC polish)	-50dB	-40dB
Operating temperature	-46° C to + 71° C	
Storage temperature	-55° C to + 85° C	
Mud	5 minute immersion, clean with water (per MIL-C-83526 requirements)	
Water immersion	EIA-455-40, Water, 1m, 48 hr	
Ice crush	DOD-STD-1678, Method 4050	
Humidity	TIA/EIA-455-5	
Flammability	MIL-STD-1344, Method 1012	
Vibration (operational)	TIA/EIA-455-11	
Shock	EIA/TIA-455-14, Condition A	
Mating durability	2,000 cycles per EIA/TIA-455-21	
Cable seal flexing	100 cycles per TIA/EIA-455-1	
Twist	1,000 cycles per EIA/TIA-455-36	
Cable retention	400 pounds minimum per EIA/TIA-455-6, 1hr (applies to plug and strain relief receptacles)	
Impact	EIA/TIA-455-2, Method B	
Crush resistance	450 pounds minimum per EIA/TIA-455-26	
EMI shielding effectiveness (receptacle only)	> 60dB PER IEEE-299, 15KHz to 10GHz	
Corrosion resistance	TIA/EIA-455-16	

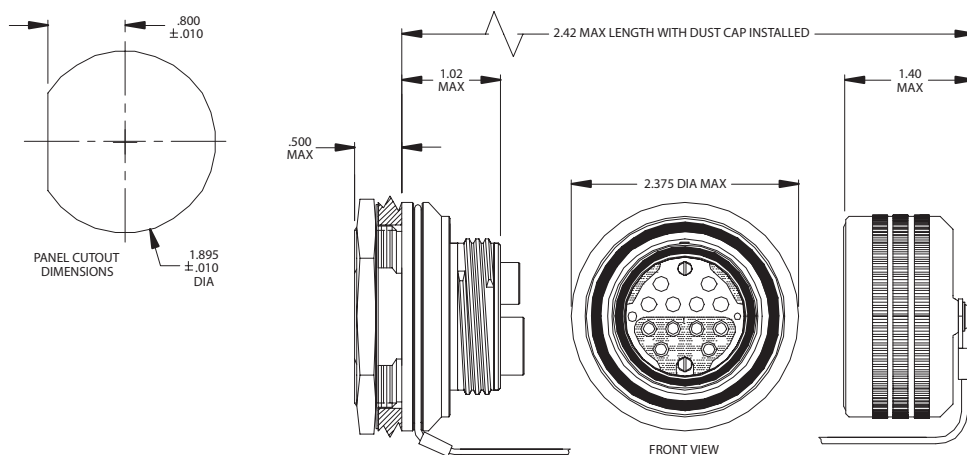
### FS8H 12-Channel Hermaphroditic Plug



### FS8H12-Channel Flange Mount Receptacle with Panel Cutout



### FS8H12-Channel "D" Mount Receptacle with Panel Cutout



Drawings are not to scale. Measurements are in inches.

### How to Order

For more information on how to order or to obtain a price quote on the FS8H 12-channel products, please call us at 800.472.4225. For international calls please dial 1.214.547.2400 or email us at [info@fibersystems.com](mailto: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 broadcast military, oil & gas and mining 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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TFOCA-II is covered by U.S. Patents 6,305,849; 6,371,660 and 6,357,929

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