



FS5B 24-Channel Plug

About FS5B & FS6H Connectors

The FS5B and FS6H fiber optic connectors are ideally suited for harsh operating environment applications in the oil and gas industry requiring high-density optical interconnects.

The FS5B & FS6H design utilizes the latest technology in fiber optic connectivity by incorporating industry standard physical contact ceramic ferrules and alignment sleeves.

The FS5B and FS6H connectors are designed to accept a wide variety of cable options such as tactical, armored and sheathed, rodent proof and fire resistant (Upgraded IEC 331) cables to meet your specific application. In addition, the FS5B and FS6H fiber Optic connectors can be combined with of-the-shelf cable glands and wire mesh strain reliefs for maximum mechanical robustness and protection.

Features and Benefits

- **Hermaphroditic Design for Versatility** - Enables multiple plug assemblies to be daisy-chained.
- **Removable End Cap** - Allows for easy field maintenance and cleaning.
- **6 & 24-Channel Connector Design** - Ideal for high density harsh environment applications.
- **Superior 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 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 deployable conditions.
- **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.
- **Cable Options** - Compatible with a wide assortment of fiber optics cables and commercially available cable accessories.
- **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
- Oil, Gas and Geoscience Industries
- Mining
- Disaster Recovery

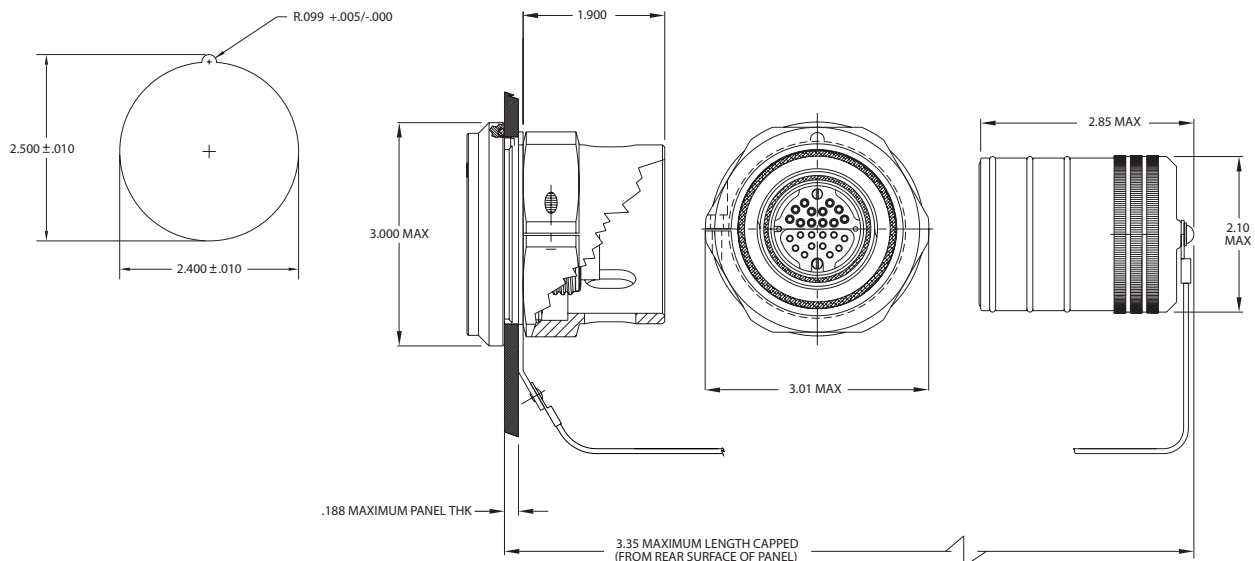
How to Order

For more information on how to order or to obtain a price quote on any of our FS5B & FS6H products, please call us at 800.472.4225. For international calls please dial 214.547.2400 or email us at info@fibersystems.com

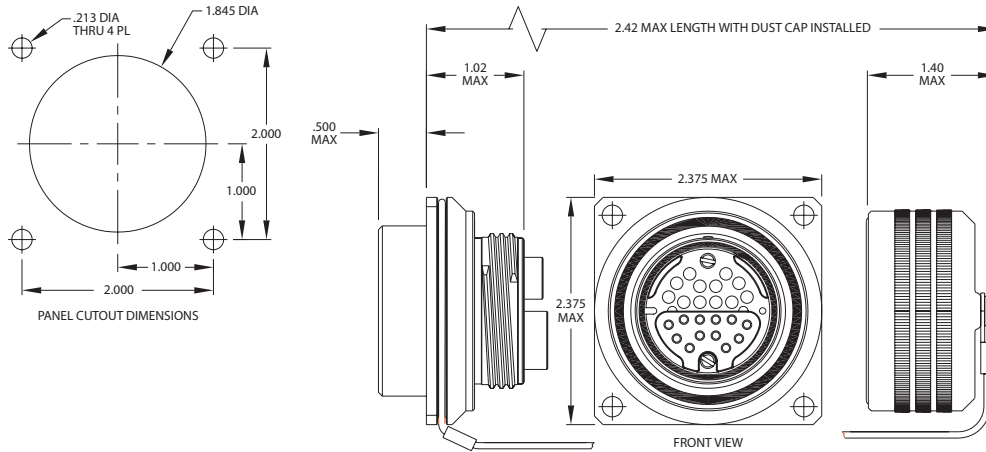
FS5B & FS6H Connector Specifications

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	

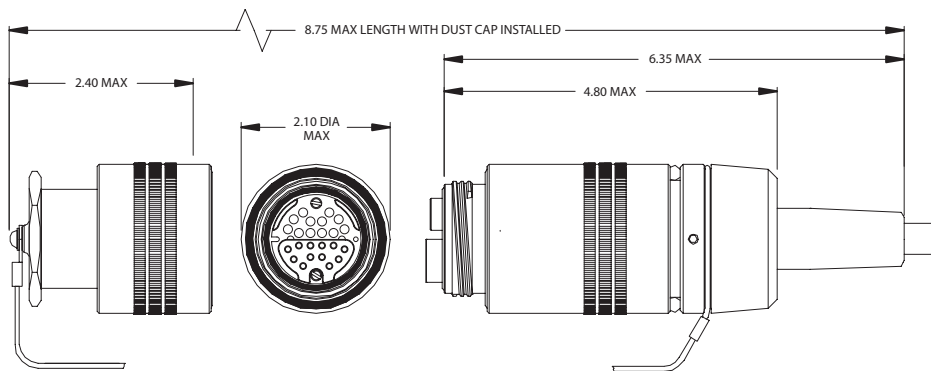
FS5B 24-Channel Jam Nut Receptacle with Panel Cut-out



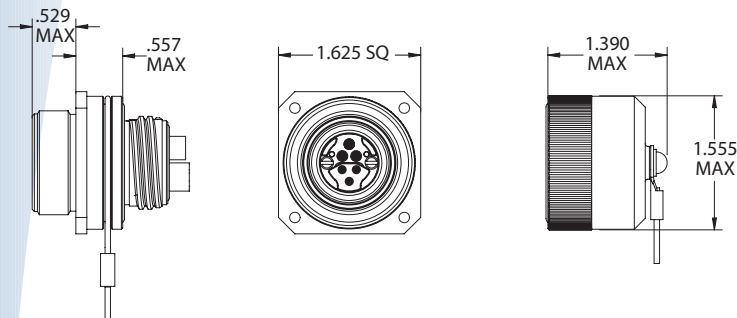
FS5B24-Channel Flange Mount Receptacle with Panel Cut-out



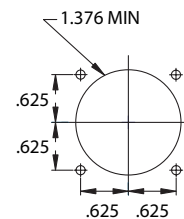
FS5B24-Channel Hermaphroditic Plug



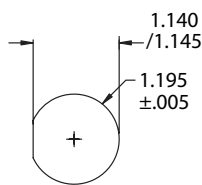
FS6H6-Channel Flange Mount Receptacle



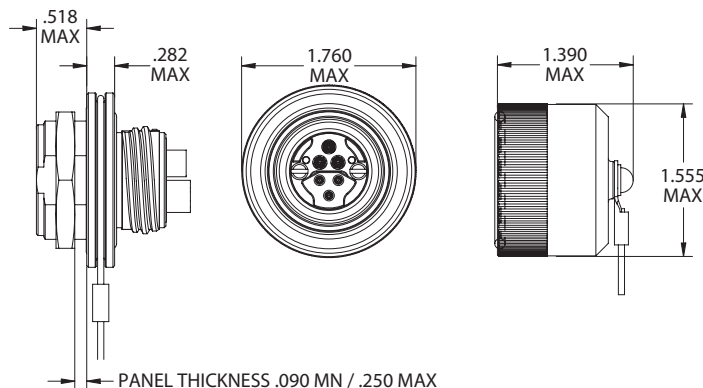
FS6H6-Channel Flange Mount Receptacle Panel Cut-out



FS6H6-Channel Jam Nut Receptacle Panel Cut-out



FS6H6-Channel Jam Nut Receptacle

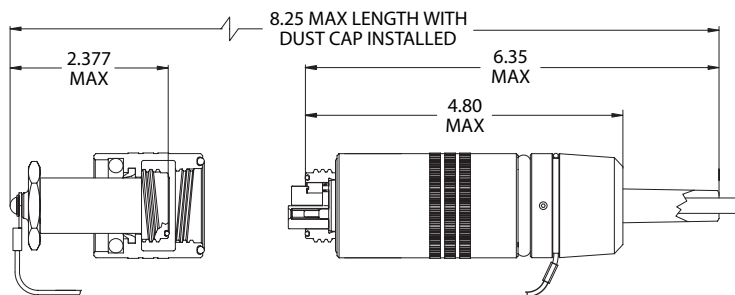


About Amphenol Fiber Systems International

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® 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

FS6H6-Channel Plug



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