



TFOCA-III® 24-Channel Receptacle

### About TFOCA-III®

The TFOCA-III® series of 6 and 24-channel fiber optic connectors are ideal for environmentally harsh conditions.

The TFOCA-III® design utilizes the latest technology in fiber optic connectivity by incorporating industry standard physical contact ceramic ferrules and alignment sleeves.

### Features and Benefits

- **Hermaphroditic Design for Versatility** - Enables multiple TFOCA-III® plug assemblies to be daisy-chained
- **Removable End Cap** - Allows for easy field maintenance and cleaning
- **6 and 24-Channel Connector Design** - Ideal for high density, harsh environment applications
- **Superior Cable Retention Strength** - Designed to meet 400 lb pull strength while protecting fibers from stress
- **Zn-Ni Plating** - Provides substantial longevity to corrosive environments. Meets new mandate set by Environmental Protection Agency for the elimination of heavy metal plating

- **Commercial Ceramic Ferrule Technology** - Enables TFOCA-III® 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** - Available in four key positions (1, 2, 3 and universal), enables 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** - Allows the connector to be used in a variety of applications

### Applications

- US Army, Navy and Marine Corps Military Tactical Deployments
- Oil, Gas and Geoscience Industries
- Mining
- Industrial
- Broadcast
- Disaster Recovery

### How to Order

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

## TFOCA-III® Connector Specifications

Specification	Measurement/Detail
Number of Channels	6 and 24-channels
Filter Type	62.5/125 or 50/125 multimode, 9/125 single mode
Insertion Loss	62.5/125 or 50/125 multimode fiber: -0.3 dB typical 9/125 single mode: -0.4 dB 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 lb min per EIA/TIA-455-6 (applies to plug and strain relief receptacles)
Twist	1,000 cycles per EIA/TIA-455-36
Cable Seal Flexing	100 cycles per MIL-STD-1344, Method 2017, Procedure 1
Mating Durability	500 cycles per EIA/TIA-455-21
Crush Resistance	450 lb min per EIA/TIA-455-26
EMI Shielding Effectiveness (Receptacle Only)	> 60 dB, 15kHz to 10GHz

### TFOCA-III® 6-Channel Connector Part Numbers

#### Product Number      Product Name

FS6H1000-X-Y      TFOCA-III® 6-Channel Plug  
 FS6H6200-X-Y      TFOCA-III® 6-Channel Flange Mount Receptacle with ISR

X=H Cable Diameter Range .190 - .239	Y=1 Key Option 1
X=F Cable Diameter Range .240 - .279	Y=2 Key Option 2
X=A Cable Diameter Range .280 - .315	Y=3 Key Option 3
X=B Cable Diameter Range .316 - .346	Y=U Universal Key Option
X=G Cable Diameter Range .347 - .379	

FS6H8000-X-Y      TFOCA-III® 6-Channel Jam Nut Receptacle  
 FS6H6000-X-Y      TFOCA-III® 6-Channel Flange Mount Receptacle

X=1 EMI Shielded Panel Seal	Y=1 Key Option 1
	Y=2 Key Option 2
	Y=3 Key Option 3
	Y=U Universal Key Option

FSAF1000Y      TFOCA-III® Terminus

Product Number	X=Ferrule Type	Y=Crimp
FSAF1000	0=MM/SM	Blank=W/O Crimp
FSAF1000C	0=MM/SM	C=With Crimp

FSAF1150      TFOCA-III® Alignment Sleeve, Multimode  
 FSAF1175      TFOCA-III® Alignment Sleeve, Single mode  
 M29E1000      TFOCA-III® Dummy Terminus

### TFOCA-III® 24-Channel Connector Part Numbers

#### Product Number      Product Name

FS5H1000-X-Y      TFOCA-III® 24-Channel Hermaphroditic Plug

X=F Cable Diameter Range .240 - .279	Y=1 Key Option 1
X=A Cable Diameter Range .280 - .315	Y=2 Key Option 2
X=B Cable Diameter Range .316 - .346	Y=3 Key Option 3
X=G Cable Diameter Range .347 - .379	Y=U Universal Key Option
X=C Cable Diameter Range .380 - .423	
X=D Cable Diameter Range .424 - .465	
X=E Cable Diameter Range .466 - .515	

FS5H8800-X-Y      TFOCA-III® 24-Channel Jam Nut Receptacle  
 FS5H6000-X-Y      TFOCA-III® 24-Channel Flange Mount Receptacle

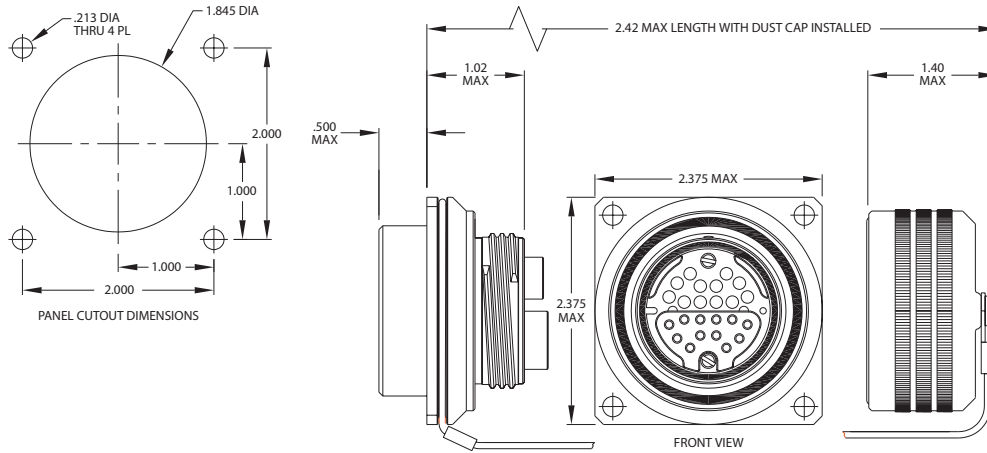
X=1 EMI Shielded Panel Seal	Y=1 Key Option 1
	Y=2 Key Option 2
	Y=3 Key Option 3
	Y=U Universal Key Option

FSAF1X00Y      TFOCA-III® Terminus

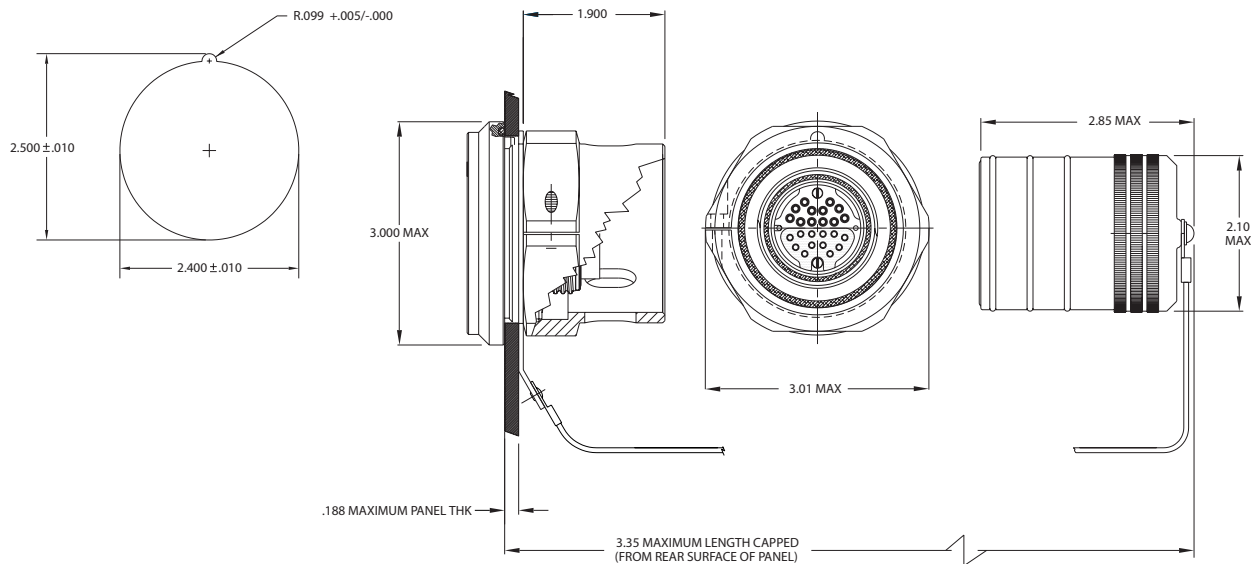
Product Number	X=Ferrule Type	Y=Crimp
FSAF1000	0=MM/SM	Blank=W/O Crimp
FSAF1000C	0=MM/SM	C=With Crimp

FSAF1150      TFOCA-III® Alignment Sleeve, Multimode  
 FSAF1175      TFOCA-III® Alignment Sleeve, Single Mode  
 M29E1000      TFOCA-III® Dummy Terminus

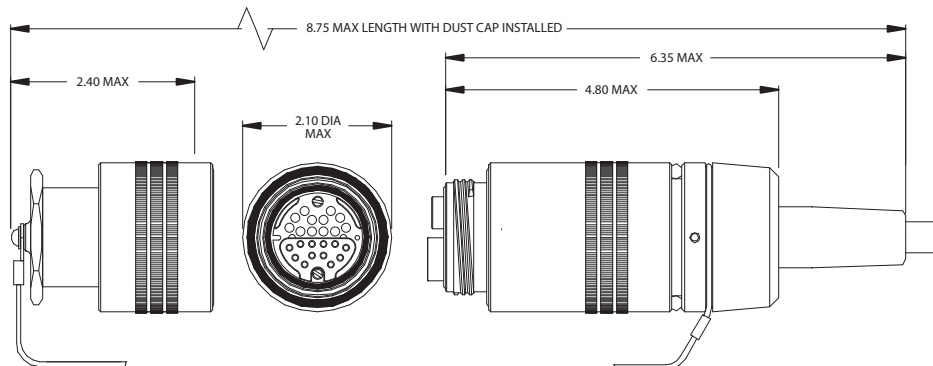
### TFOCA-III® 24-Channel Flange Mount Receptacle with Panel Cutout



### TFOCA-III® 24-Channel Jam Nut Receptacle with Panel Cutout

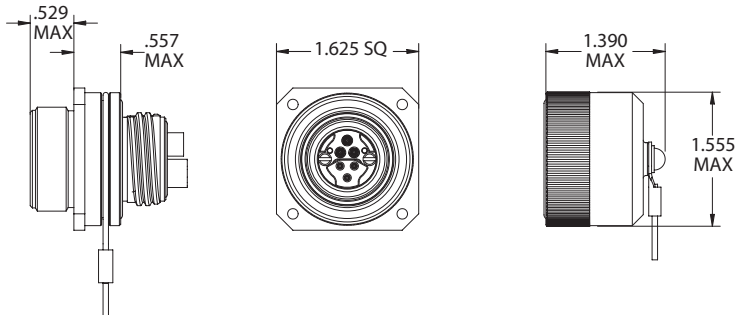


### TFOCA-III® 24-Channel Hermaphroditic Plug

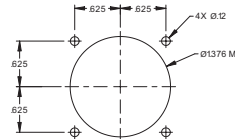


Drawings are not to scale.  
Measurements are in inches.

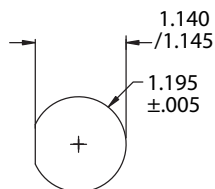
### TFOCA-III® 6-Channel Flange Mount Receptacle



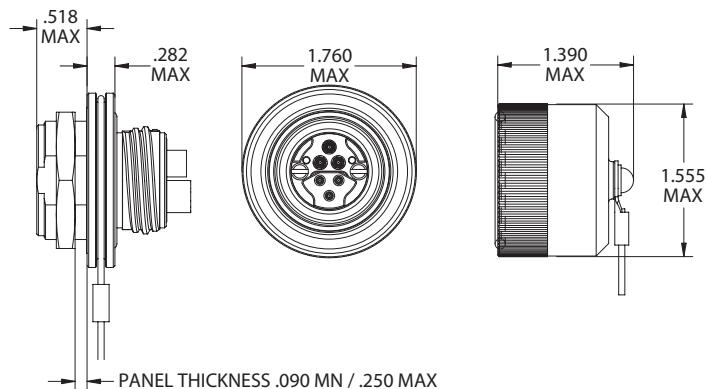
### TFOCA-III® 6-Channel Flange Mount Receptacle Panel Cutout



### TFOCA-III® 6-Channel Jam Nut Receptacle Panel Cutout



### TFOCA-III® 6-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 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.

AFSI has delivered millions of fiber optic connectors worldwide. 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, visit [www.fibersystems.com](http://www.fibersystems.com).

### TFOCA-III® 6-Channel Plug

