

TFOCA-III®



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

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 & 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 multi-mode 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

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

Phone: (214) 547-2400 | Email: sales@fibersystems.com | Website: amphenol-fsi.com

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TFOCA-III®

Applications:

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

TFOCA-III® Connector Specifications:

Specification	Measurement/Detail
Number of Channels	6 and 24 Channels
Filter Type	62.5/125 or 50/125 multimode 8/125 singlemode
Operating Temperature	-46° C to + 71° C
Insertion Loss	-62.5/125 mm fiber: -0.3dB typical 50/125 mm fiber: -0.3dB typical 9/125 sm: -0.4dB typical
Shock	EIA/TIA-455-14, Condition A
Vibration	MIL-STD-1344, Method 2500.1
Cable Retention	400lb minimum 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	450lb minimum per EIA/TIA-455-26
EMI Shielding (Receptacle only)	> 60dB, 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
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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



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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

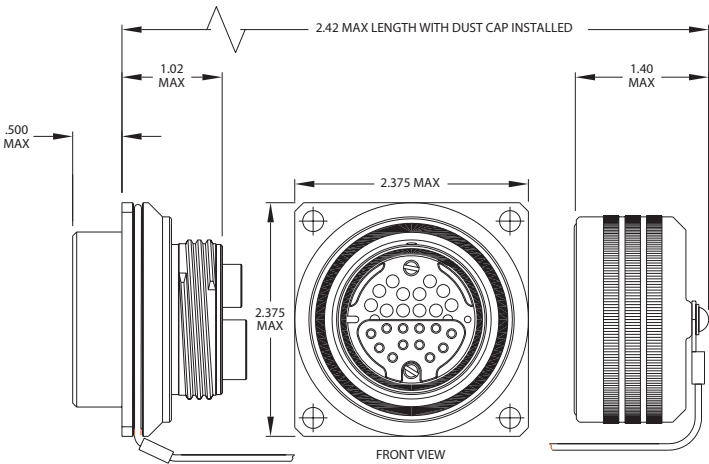
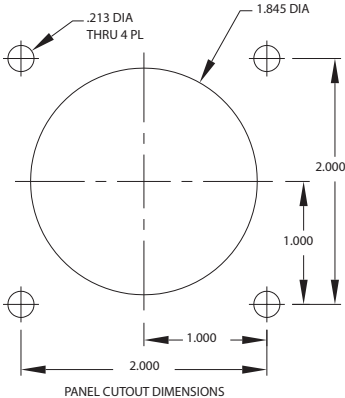
X=1 EMI Shielded Panel Seal	Y=1 Key Option 1
	Y=2 Key Option 2
	Y=3 Key Option 3
	Y=U Universal Key Option

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

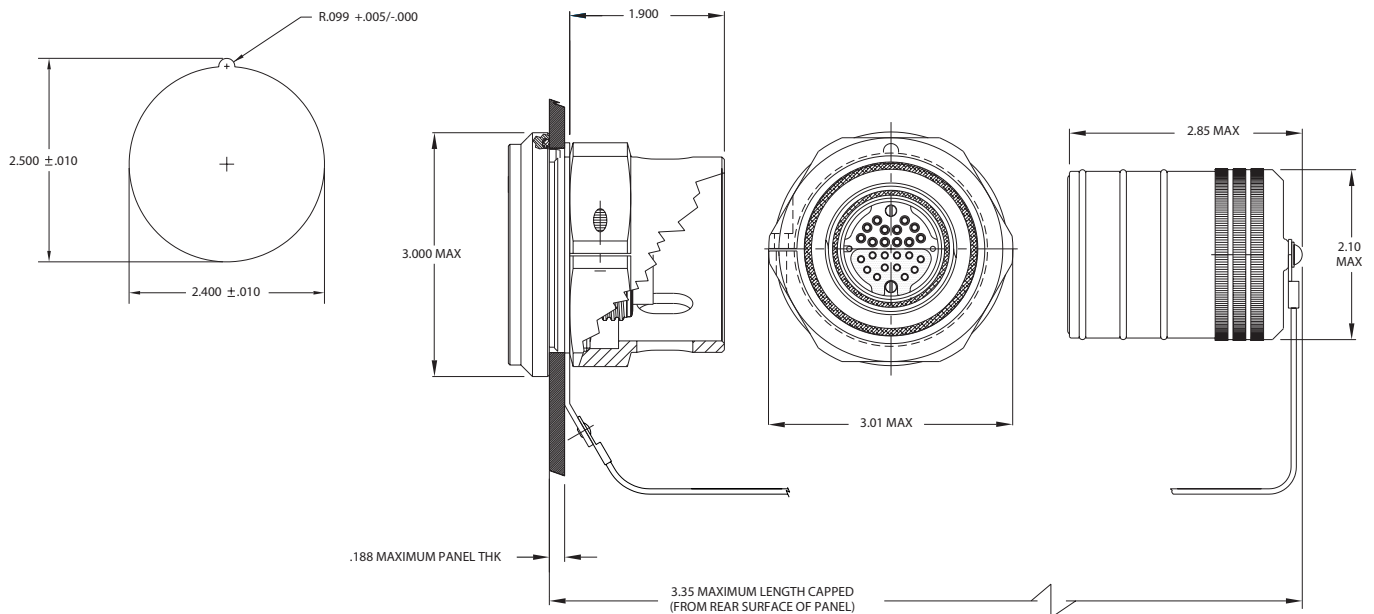
FSAF1150 TFOCA-III® Alignment Sleeve, Multimode
FSAF1175 TFOCA-III® Alignment Sleeve, Single Mode
M29E1000 TFOCA-III® Dummy Terminus

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

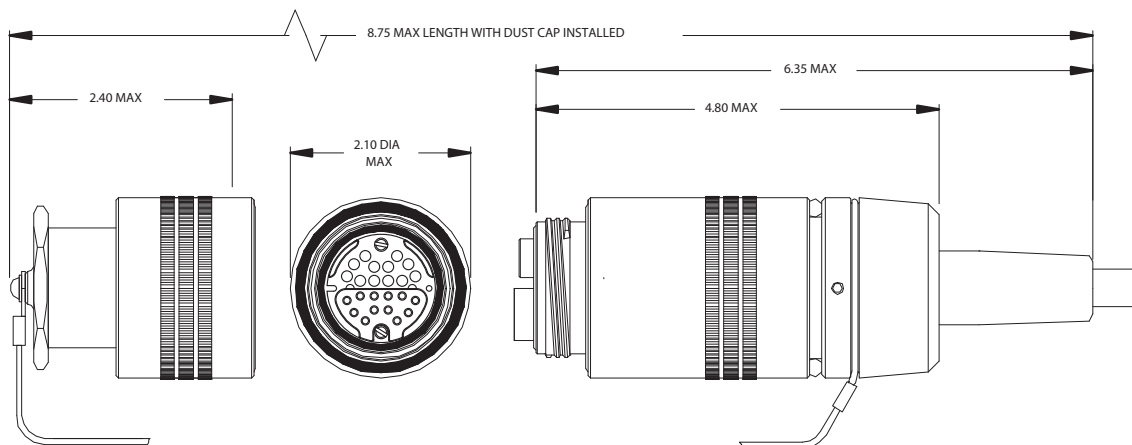


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TFOCA-III® 24-Channel Jam Nut Receptacle with Panel Cutout:



TFOCA-III® 24-Channel Hermaphroditic Plug:



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

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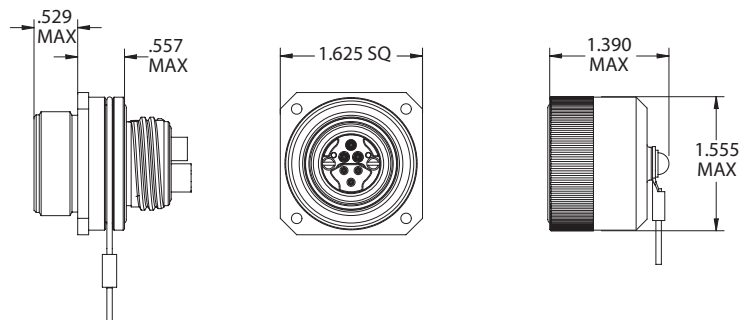
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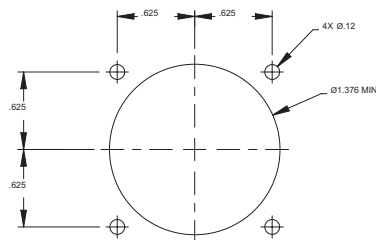
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Amphenol FSI

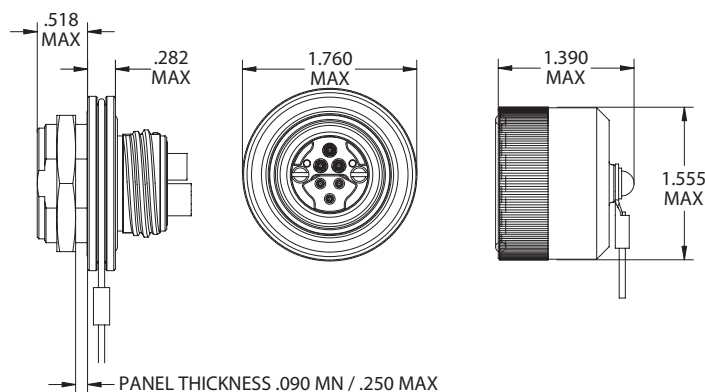
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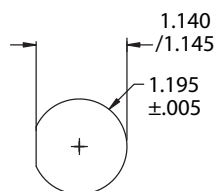
TFOCA-III® 6-Channel Flange Mount Receptacle Panel Cutout:



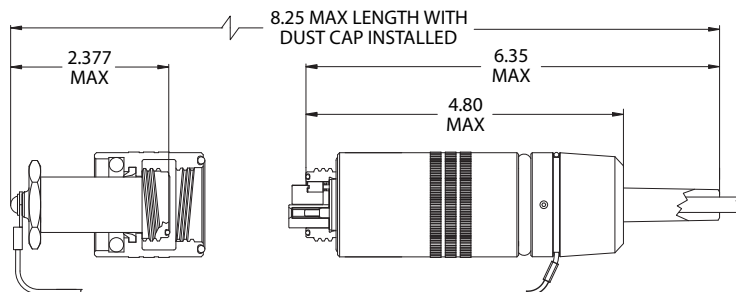
TFOCA-III® 6-Channel Jam Nut Receptacle:



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



TFOCA-III® 6-Channel PLug:



How to Order :

For more information on how to order or to obtain a price quote on any of our TFOCA-II® EX products, please call us at 800-472-4225. For international calls please dial 214-547-2400 or e-mail us at 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 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.amphenol-fsi.com for more information.

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