

TFOCA-II[®] ProClean[™] Fiber Optic Connector



AFSI designed its patented TFOCA-II[®] hermaphroditic connector series to survive the harshest battlefield conditions imaginable.

The sealed, free-floating termini design enables this series to survive high humidity and moisture conditions while allowing optimum alignment for low insertion loss and minimal back reflection.

AFSI designed its ProClean[™] harsh environment fiber optic connector as a small but important improvement over the already established TFOCA-II[®] connector. The TFOCA-II[®] ProClean[™] features a tool-less, removable end cap, which once removed, allows access to the termini for easy field maintenance and cleaning using standard fiber optic tools. Termini ferrule access also enables the field technicians to use hand held end face measurement equipment without connector dis-assembly.

TFOCA-II[®]
Connector



ProClean[™]
Connector

Inquires for Amphenol FSI's TFOCA-II[®] ProClean[™] connector series should be directed to sales@fibersystems.com

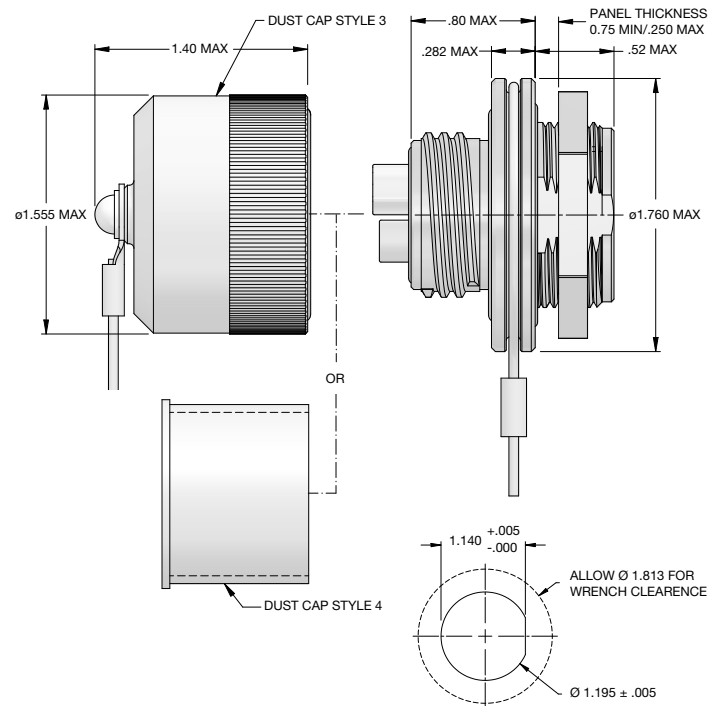
Amphenol Fiber Systems International, Inc. | 1300 Central Expressway N, Suite 100 Allen, TX 75013
Phone: (214) 547-2400 | Email: sales@fibersystems.com | Website: amphenol-fsi.com

Amphenol Fiber Systems International (AFSI), a division of Amphenol Military & Aerospace Operations (AMAO), is the largest manufacturer of harsh environment fiber optic cable assemblies & connectors in the world. Visit AMAO at amphenolmao.com.

Applications :

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

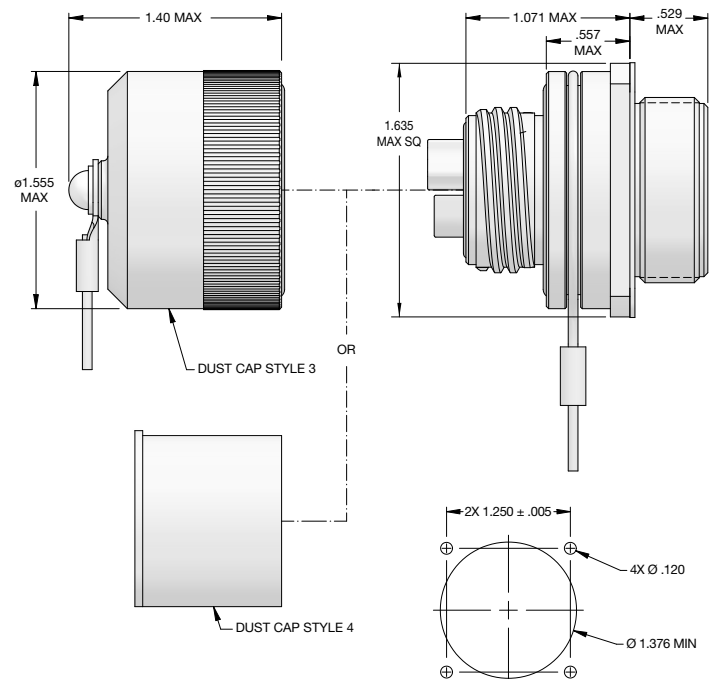
TFOCA-II® ProClean™ Jam Nut Receptacle :



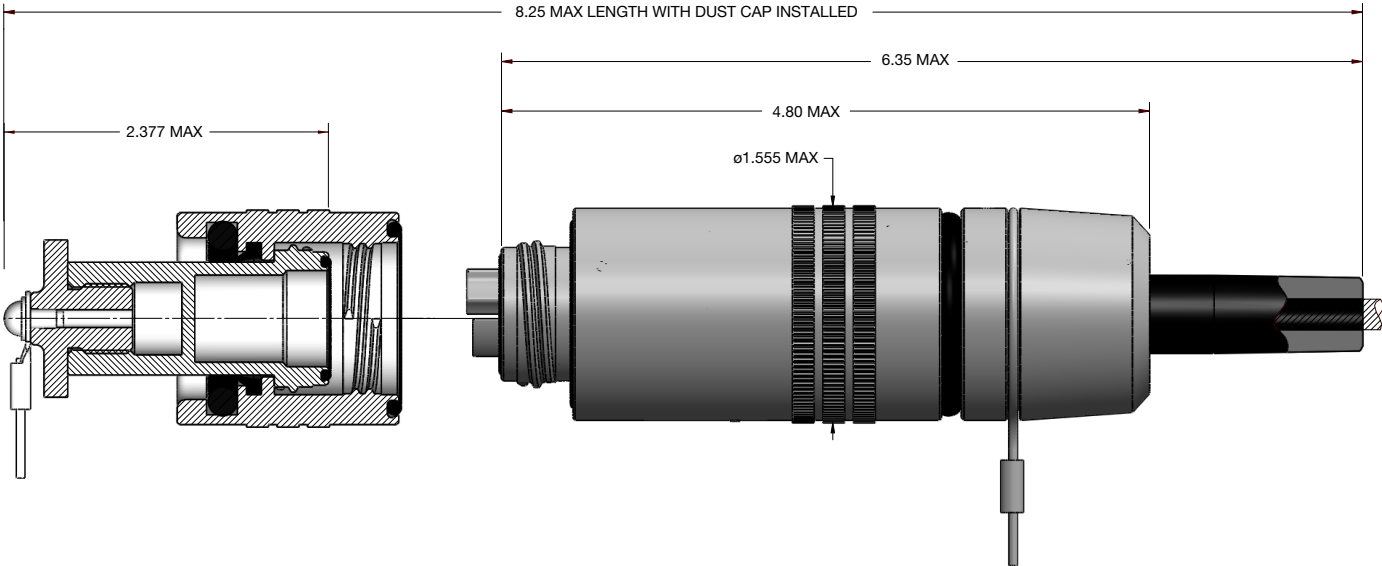
TFOCA-II® ProClean™ 4 Channel Connector Specifications :

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-83526/12 /13 requirements)	
Water pressure	MIL-STD-810, Method 512.4, 1m, 48hr	
Ice crush	DOD-STD-1678, Method 4050	
Humidity	DOD-STD-1678, Method 4030, 10 Cycles	
Flammability	MIL-STD-1344, Method 1012	
Vibration (operational)	MIL-STD-1344, Method 2500.1	
Shock	EIA/TIA-455-14, Condition A	
Mating durability	2,000 cycles per EIA/TIA-455-21	
Cable seal flexing	100 cycles per MIL-STD-1344, Method 2017, Procedure 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	
Crush resistance	450 pounds minimum per EIA/TIA-455-26	
EMI shielding effectiveness (receptacle only)	> 60dB, 15KHz to 10GHz	
Corrosion Resistance	MIL-STD-1344, Method 1001, Condition A	

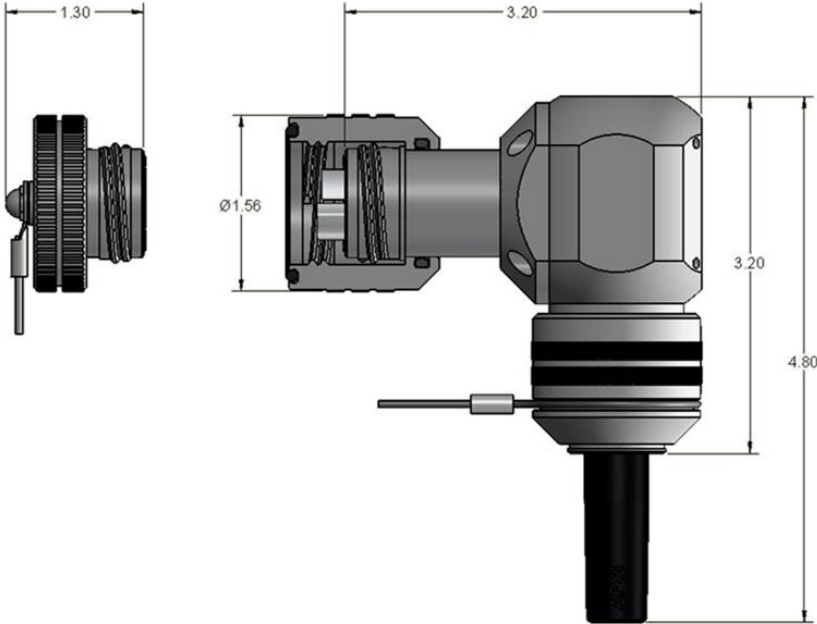
TFOCA-II® ProClean™ Square Flange Receptacle :



TFOCA-II® ProClean™ 4 Channel Hermaphroditic Plug :



TFOCA-II® ProClean™ 4 Channel 90° Plug :



Amphenol Fiber Systems International (AFSI) :



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 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.fibersystems.com for more information.

How to Order :

For more information on how to order or to obtain a price quote on our TFOCA-II® ProClean™ products, call toll free (U.S. only) at 800.472.4225, international calls please use 1.214.547.2400 or e-mail info@fibersystems.com.