

FS34 Fiber Optic Connectors



Amphenol Fiber Systems International (AFSI) designs and manufactures a complete line of circular fiber optic connectors designed in accordance with M28876 connectors.

These connectors are precision machined to stringent tolerances and designed to provide superior optical performance in extreme environmental conditions. FS34 offers rugged military and industrial multichannel fiber optic connectors for deployable, shipboard, outdoor and fixed system requirements.

The backshell features the Quickloc™ captivation system developed by Amphenol Fiber Systems International. Not only is it simple to install, it is also easy to remove the aramid yarn of the cable (KEVLAR®) captivation and recapture without cutting back the cable. The Quickloc™ backshell also allows easy access to maintain or reconfigure termini without altering the captivated aramid fiber.

Features & Benefits :

- Precision machined in accordance with M28876 connectors
- Available in 3 shell sizes:
13 (4 ch), 15 (6, 8 ch), 23 (18, 31 ch)
- Six keying options (plus universal keying for COTS product) for both plugs and receptacles; ideal for test cables
- Inserts are interchangeable from plug to receptacle. Either can be operated with pins or socket termini
- Fully intermateable with all qualified FS34 connectors
- Operates with all qualified single mode or multimode M29504/14 and /15 termini
- Complete line of straight, 45° and 90° backshells.
- Fully intermateable and interchangeable with any qualified FS34 connector manufacturer
- Backshell design allows simplified, removable KEVLAR® captivation with no mechanical crimp rings
- Angled backshells operate identically using the same tools as the straight backshell
- Quickloc™ design enables faster maintenance or repair without complete disassemble of connector backshell assembly
- Versions of this connector family are available in aluminum and alternate materials and platings.

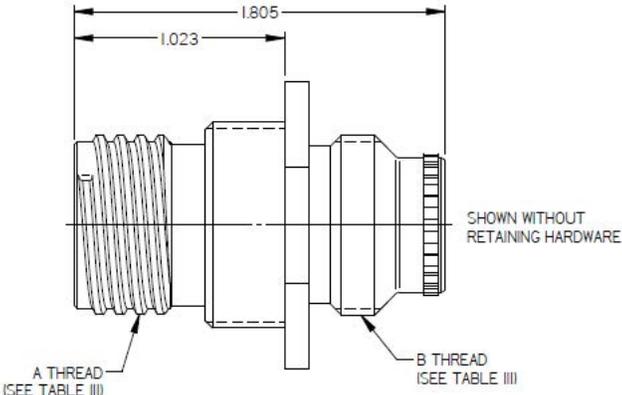
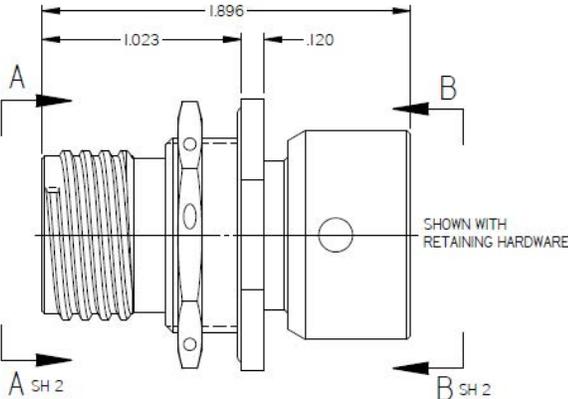
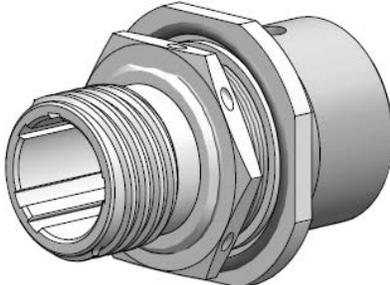
Amphenol Fiber Systems International, Inc. | 1300 Central Expressway N, Suite 100 Allen, TX 75013

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

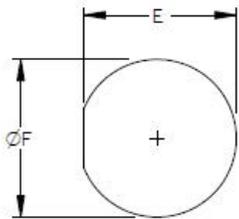
Amphenol Fiber Systems International (AFSI), a division of Amphenol Military & Aerospace Operations (AMAO), is the largest manufacturer of harsh environment fiber optic cable assemblies & connectors in the world. Visit AMAO at amphenolmao.com.

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FS34 Receptacle Jam Nut :



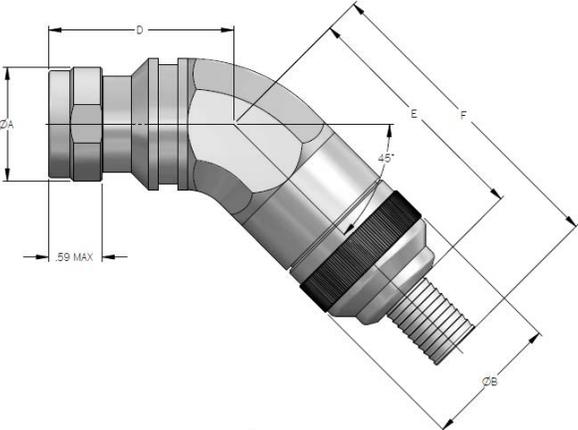
FS34 Receptacle Jam Nut Cut Out :



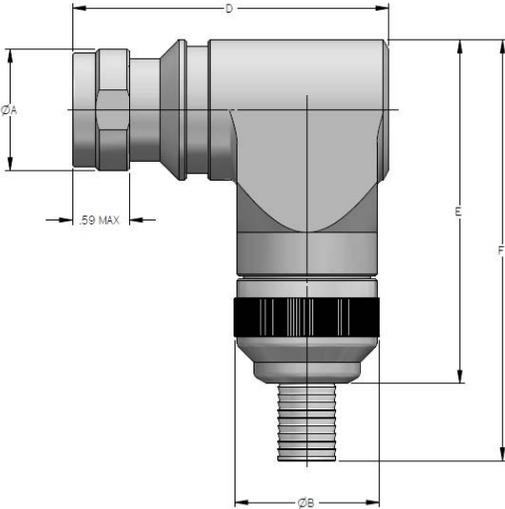
RECOMMENDED
MTG CUT-OUT
SEE TABLE II
SCALE: NONE

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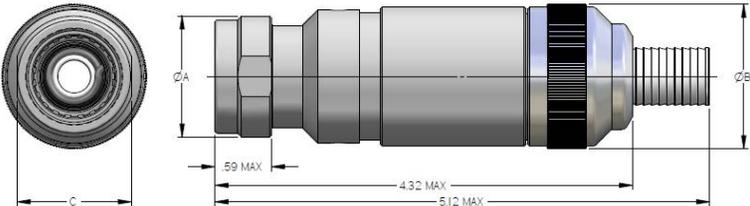
FS34 Backshell 45° :



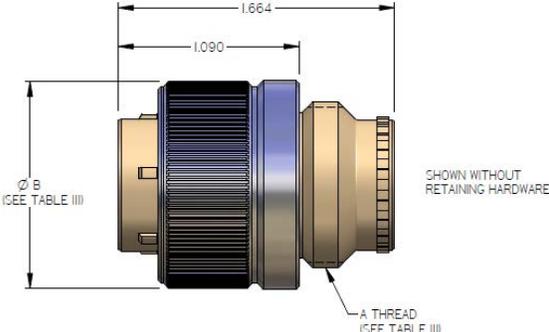
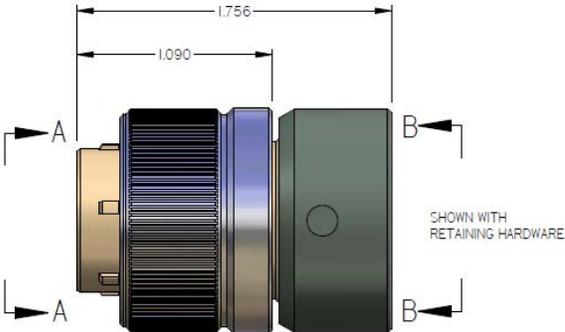
FS34 Backshell 90° :



FS34 Backshell Straight :

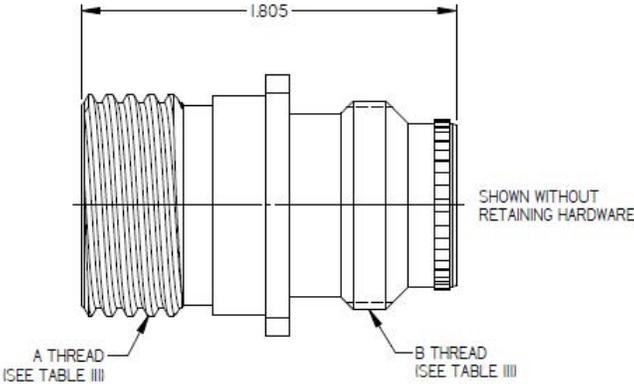
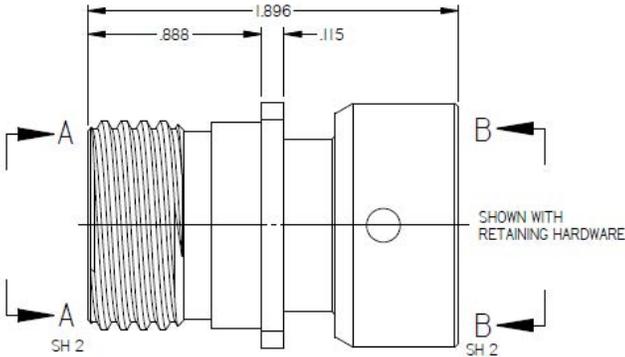
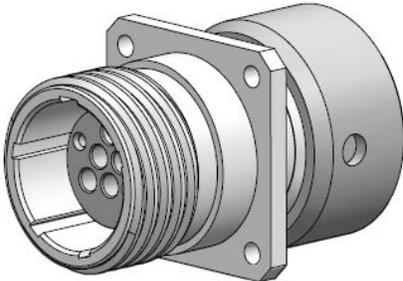


FS34 Plug:

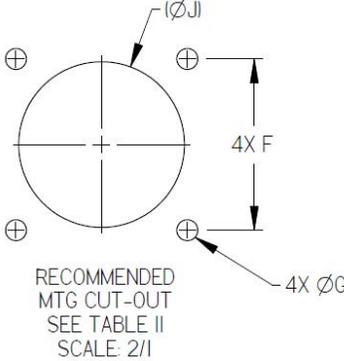


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FS34 Receptacle Wall Mount:

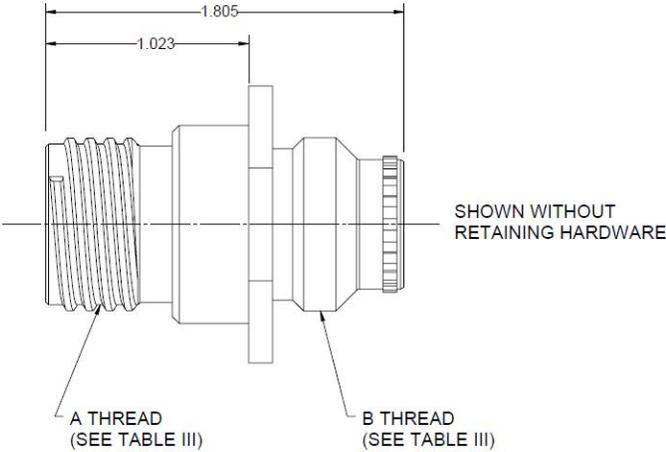
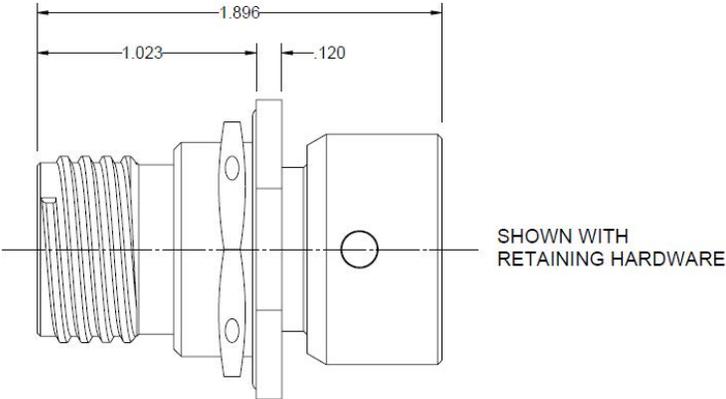
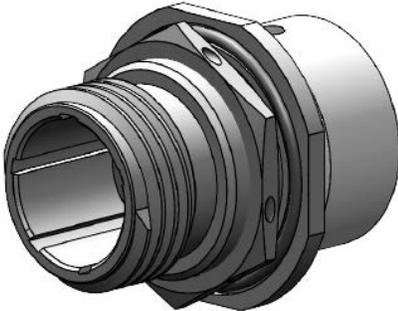


FS34 Receptacle Wall Mount Cut Out:

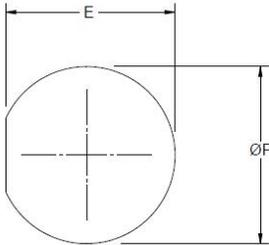


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FS34 Receptacle Hybrid:



FS34 Receptacle Hybrid Cut Out :



Applications :

- U.S. Navy shipboard, surface craft and submarines
- Mission critical combat and communications systems
- Mobile tactical shelters electronic battlefield networks
- Mobile Emergency Telecommunications (MET) Stations
- Deployable outdoors in harsh environments

Specifications :

Specification	Measurement/Detail
Mating Durability	500 cycles per EIA-455-21
Vibration	Per TIA/EIA-455-11, test condition II & VII (Letter C)
Mechanical Shock	Per MIL-S-901, Grade A, Class I
Thermal Shock	Per schedule C of TIA/EIA-455-71 for 5 Cycles
Thermal Cycling	Per EIA/TIA-455-3 using Table X of MIL-PRF-28876
Water Pressure	Depth of 32 feet for 48 hours
Ozone Exposure	Per TIA-455-189
Freezing Water Immersion	Per Method A, Procedure 1 of EIA/TIA-455-98
Fluid Immersion	Per EIA/TIA-455-12 for 4 Hours Per Fluid
Crush Resistance	Per TIA-455-26 with a load of 1250 Newtons
Life Aging	Per TIA/EIA-455-4 @ 110°C for 240 hours
Terminus Retention Force	Axial load of 22Lbs for 5 seconds
Sand and Dust	PER EIA/TIA-455-35
Cable Pull Out Force	Per TIA-455-6 to 162 Lbs for 10 minutes
Cable Sealing Strain Relief	Polyolefin, Self Encapsulating
Impact	Eight Drops Per Method B of EIA/TIA-455-2
Flammability	Per EIA-364-81
Operating Temperature	-28°C to +65°C
Storage Temperature	-40°C to +70°C
Typical Insertion Loss	0.4 dB Nominal Multimode, 0.5 dB Nominal Single mode
Fungus	28 Day Exposure per TIA/EIA-455-56
Electromagnetic Effects	Per IEEE-299 @ 100 MHz, 400 MHz, 1GHz and 10GHz
Cable Sealing Strain Relief	Polyolefin, Self Encapsulating

How to Order :

For more information on how to order or to obtain a price quote on our FS34 products, call toll free (U.S. only) at 800-472-4225, international calls please use 214-547-2400 or e-mail info@fibersystems.com.

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 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.fibersystems.com for more information.