



The M83526/20 compliant AFSI TacBeam rugged fiber optic connector

About the TacBeam Connector

Amphenol Fiber Systems International (AFSI) offers a MIL-PRF-83526/20A & /21A compliant expanded beam rugged fiber optic connector for military and industrial applications. Expanded beam technology expands and collimates the optical signal through the connector interface path resulting in a diameter many times that of the original beam. The optical beam is then refocused into the core of the receiving fiber. The larger beam diameter improves insertion loss performance in the presence of dust and debris. Also, because the lenses do not physically contact, there is no wear on the termini allowing the connector to be mated and demated thousands of times without affecting optical performance.

The AFSI TacBeam is hermaphroditic, which facilitates the concatenation of multiple cable assemblies to support varying distance requirements. The connector is available in both single mode and multimode versions, can be configured to support 1 to 4 fiber optic channels using a common insert and has been designed to accept a wide variety of cables to suit any application.

Features & Benefits

- Supports both multimode and single mode fiber
- Expanded beam technology is less susceptible to dust and debris
- Monolithic insert design facilitates cleaning
- Hermaphroditic design enables daisy-chaining of cable assemblies to support varying distances
- Non-contacting interface allows thousands of mating cycles

Applications

- Tactical Military Ground Systems
- Oil & Gas Seismic Systems
- Broadcast Systems
- Rail & Mass Transit

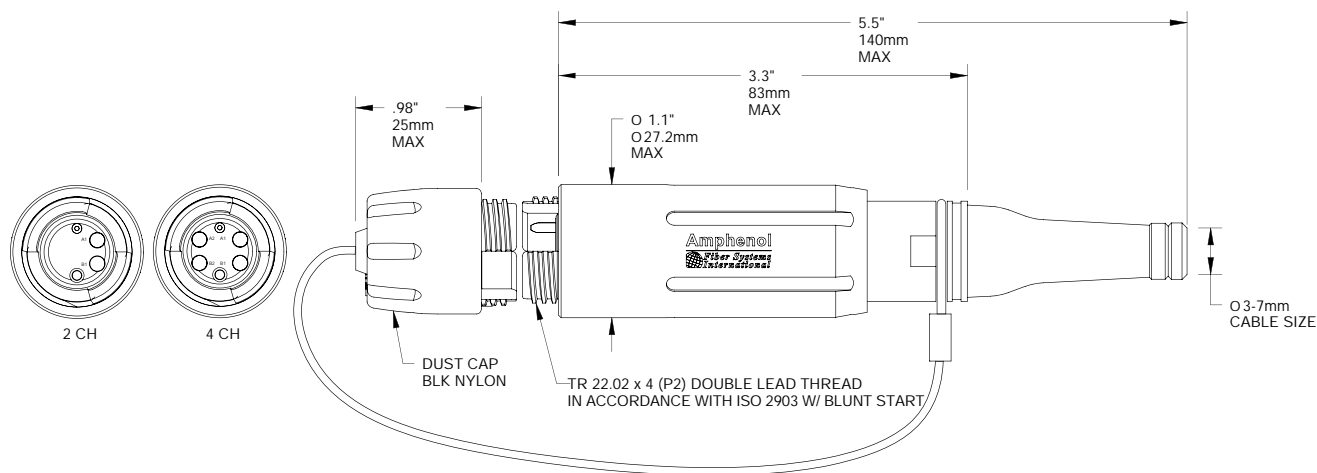


AFSI TacBeam receptacle

Specifications

Specification	Measurement/Detail
Insertion Loss	≤2.0 dB multimode, ≤2.5 dB single mode
Return Loss	≥-31.0 dB mated, ≥-34.0 dB unmated
Mating Durability	2000 cycles
Operating Temperature	-46°C to 71°C
Transit Temperature	-54°C to 71°C
Storage Temperature	-57°C to 85°C

EB4H1000 Plug Assembly



EB4H1000 Ordering Nomenclature

EB4H1000- X X X H A

CONNECTOR MATERIAL & FINISH

- 1 = 6061-T6 BLACK HARD ANODIZED PTFE W/ RUBBER COVER
- 3 = 6061-T6 BLACK HARD ANODIZED PTFE
- A = C63000 MARINE BRONZE
- B = C36000 BRASS 1/2 HARD
- C = 303 STAINLESS STEEL
- F = 316 STAINLESS STEEL

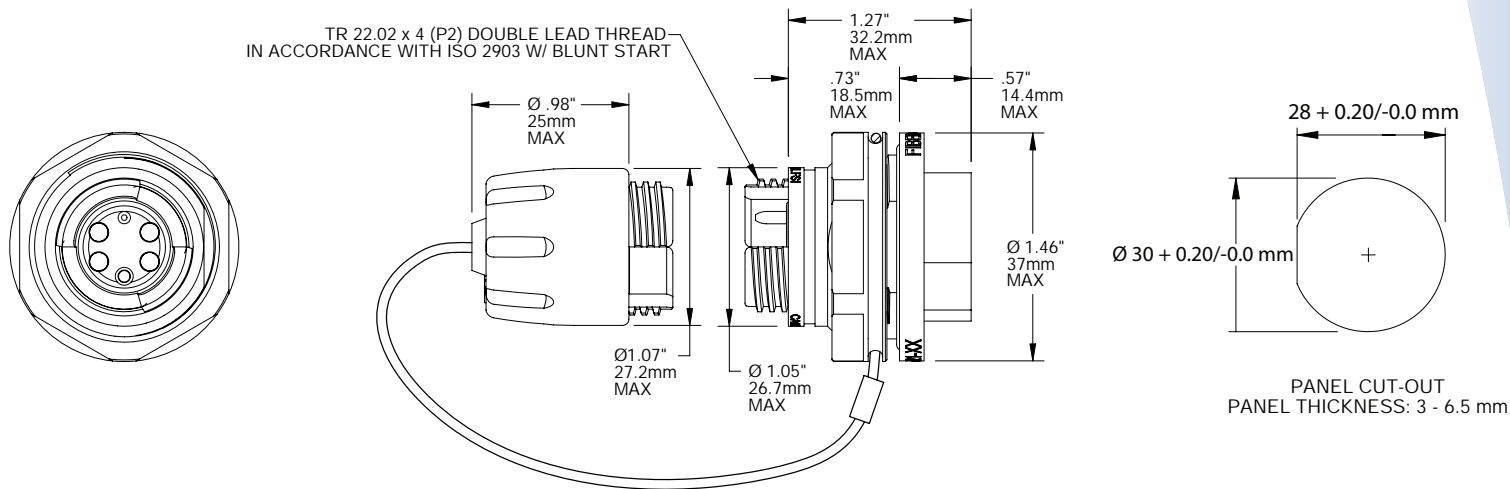
WAVE LENGTH

- 1 = 850/1300 nm
- 2 = 1310 nm
- A = 1550 nm

CHANNELS

- 2 = 2 CH
- 4 = 4 CH

EB4H8000 Receptacle Assembly



EB4H8000 Ordering Nomenclature

EB4H8000- X X X A

CONNECTOR MATERIAL & FINISH

- 1 = 6061-T6 BLACK HARD ANODIZED PTFE W/ RUBBER COVER
- 3 = 6061-T6 BLACK HARD ANODIZED PTFE
- A = C63000 MARINE BRONZE
- B = C36000 BRASS 1/2 HARD
- C = 303 STAINLESS STEEL
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WAVE LENGTH

- 1 = 850/1300 nm
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CHANNELS

- 2 = 2 CH
- 4 = 4 CH





How to Order

To order or to obtain a price quote on our AFSI TacBeam product line, call toll free (U.S. only) at 800.472.4225, international calls please use 1.214.547.2400 or e-mail sales@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 a decade, 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.

