



*THD48 Plug*

*THD48  
Receptacle*



### About the THD Series

Amphenol Fiber Systems International (AFSI) designed and developed the THD Series of tactical high density connectors to meet the ever increasing demands of high density harsh environment fiber optic connectivity. THD Series connectors are particularly suited for the reliable tactical connections required for digital communication on and near battlefield and high bandwidth commercial and industrial applications. AFSI's multi-channel fiber optic connectors are designed to provide the best possible optical performance for applications with extreme environmental conditions. The THD series is another example of AFSI's leadership in the high density tactical fiber optic connector market.

THD Series connectors build on the success of the TFOCA-II® second generation TFOCA connector designed and patented by AFSI. THD series connectors have the same functional and performance improvements of the TFOCA-II®. Enhancements include the support of single mode or multimode fiber, the use of commercially available 1.25mm zirconia ceramic ferrules and sleeves, and the resulting improvements in insertion loss.

### Maintainability

The THD Plug connectors have a removable end cap to allow field level repair and cleaning. Removing the cap allows direct access to the alignment sleeves and termini for thorough cleaning and periodic maintenance. The termini of the THD receptacle are easily accessible for cleaning without any disassembly of the connector at all.

### Features and Benefits

- 48 channel configuration
- 64 and 72-channel configurations in development
- Rugged high density design for harsh conditions
- ZnNi alloy plating
- For use with multimode and single mode fiber
- Precision ceramic ferrule and alignment sleeve technology
- Perfect for extreme environments
- Fixed and deployable communication systems
- Higher channel count than 31-channel M28876: Higher channel count than most fiber optic military and commercial connectors
- Rugged design for reliable operation beyond limitations of high channel count commercial connectors
- AFSI designed THD after the successful design and deployment of the TFOCA-II® in the Army and Marine Corp. The THD connector is another of AFSI's field proven connector designs

### Applications

- Disaster recovery
- Military tactical deployments
- Oil, gas and geoscience industries
- Industrial
- Government

### How to Order

For more information on how to order or to obtain a price quote on any of our THD48 Products, please call us at 800.472.4225. For international calls please dial 214.547.2400 or email us at [info@fibersystems.com](mailto:info@fibersystems.com)

### THD48 Specifications

Specification	Measurement/Detail
Number of channels	48 channels
Insertion Loss	62.5/125 Multimode Fiber - 0.3dB typical 9/125 Single mode Fiber -0.4dB typical.
Fiber Type	62.5/125 Multimode or 9/125 Single mode

### 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<sup>®</sup> connector, which AFSI developed and patented. Altogether, AFSI has distributed millions of fiber optic connectors in more than 22 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.

For more information about AFSI, please visit our web site at [www.fibersystems.com](http://www.fibersystems.com).

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Publication: AFSI-THD48-F-03.24.05 Specifications subject to change without notice.

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