

Fiber Optic Contacts & Termini



M29504/04 & /05 Fiber Optic Termini

The M29504/4 & /5 fiber optic termini, AFSI's M29K1000 and M29L1000 series, provide superior optical and mechanical performance. Designed to fit into any size 16 cavity in MIL-DTL-38999 Series III connectors, this low-cost, high-precision terminus family is ideal for harsh environment fiber optic interconnections.

The M29504/04 pin terminus and M29504/05 socket terminus are available for single mode, multimode and premium multimode applications. These termini conform to the rigorous conditions of the MIL-PRF-29504D specification.

M29F & M29G Series Fiber Optic Termini

The precision design of the M29F & M29G series fiber optic contacts for ARINC type connectors enables reliable and repeatable integration of optical media into industry-standard ARINC connector systems. Designed for high-density applications, the M29F pin terminus and M29G socket terminus provide low insertion loss, are available for single mode and multimode fiber and are designed in accordance with M29504/6 & /7.



M29504/14 & /15 Fiber Optic Termini

M29504/14 & /15 termini are qualified to MIL-PRF-29504B specifications. This series of fiber optic termini provide superior optical and mechanical performance and are compatible with M28876 and comparable military-style connectors. Unlike other M29504/14 pin terminus & /15 socket terminus designs, the AFSI design is precision engineered, allowing the ferrule to press fit and bottom out within the terminus bodies. This strict tolerance management eliminates loose fit and yields better overall performance under stressful environmental conditions.

M29N Series Fiber Optic Termini

The M29N Series (NGCON termini) is a rear release, stainless steel design that utilizes a beryllium copper retaining clip, a ceramic ferrule, and a front sealing O-ring. The durable heat-treated retaining clip ensures repeatable and consistent performance over the terminus life cycle. The M29N Series termini use high precision 1.25mm ceramic ferrules providing the best optical performance available on the market today and are designed in accordance with M29504/18 (standard), /19 (dummy) & /20 (keyed).



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Lumière Termini

The Lumière fiber optic terminus is available for commercial airframe, avionics and aerospace applications. AFSI's Lumière termini are a direct replacement in ELIO™ connectors. This fiber optic contact utilizes a 2.5mm diameter field-proven ceramic ST type ferrule, which can be inserted into a size 16 cavity. The terminus is hermaphroditic, allowing the use of the same contact on the receptacle or plug. In addition, the contact is available in both multimode and single mode versions. An anti-rotation feature allows PC, UPC and APC polishes.

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FSAF Series Termini

The FSAF Series fiber optic termini provide superior optical and mechanical performance and are compatible with AFSI's TFOCA-III® and THD high-density connectors. The front release stainless steel design utilizes a 1.25mm ferrule allowing the technician to use a standard LC polishing puck and termination procedures.

M801 Series Termini

The fully compliant M801 Series fiber optic terminus is designed for aerospace and military applications. It uses a standard 1.25mm ferrule and sleeve and can be terminated with standard LC termination procedures. The terminus can be inserted or removed from the connector with a standard size 16 contact removal tool and is compatible with all existing ARINC 801 connectors.

TFOCA Biconic Termini

The biconic terminus was adapted to the military TFOCA connector system in the early 1980s and is designed in accordance with M83626/12-02 & /13-02. These genderless termini are being phased out of current systems but continue to be used in TFOCA tactical fiber optic assemblies in the United States Army and Marine Corps legacy systems.

HD20 Series Multimode, Size 20 Termini

Designed for use in size 20 cavities of MIL-DTL-38999 Series III connectors, these termini offer increased termini density in Amphenol MIL-DTL-38999 connectors. Designed with similar high-performance components as the proven size 16 termini, the HD20 allows the connector to maintain fiber optic/electrical hybrid capabilities.

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MTFP Series Termini

Built in accordance with MIL-PRF-29504/16, the MTFP termini feature an innovative double-floating seal design that allows maximum terminus travel with minimum side forces transferred to the terminus. This design ensures maximum optical isolation and terminus sealing under the harshest conditions. For use in AFSI TFOCA-II® connectors and other TFOCA connectors built in accordance with MIL-PRF-83526/16 & /17.

SMPTE 304M Series Termini

Amphenol Fiber Systems International's (AFSI) SMPTE 304M series fiber optic termini (110-TP-125 pin and 110-TS-125 socket) provide superior optical and mechanical performance. Designed to fit into SMPTE 304M standard connectors from AFSI and other selected suppliers, this low cost, high precision termini family is ideal for use in harsh environment fiber optic interconnections. Available for single mode and multimode fibers, these termini conform to the interface requirements of the SMPTE 304M standard.



How to Order:

For more information on how to order or to obtain a price quote on our MITS termini or any of our other 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.fibersystems.com for more information.

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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.