



109 Series 4-Channel Hermaphroditic Plug

About the 109 Series

Amphenol Fiber Systems International (AFSI) offers hermaphroditic fiber optic connectors for deployable fiber optic communication requirements. These rugged connectors are designed to be the industry's most economical connector providing easy maintenance and superior optical performance.

AFSI's line of 109 Series hermaphroditic connectors offers the ultimate in flexibility. 109 Series plugs can function as either a plug or a receptacle to fit any system design. With these connectors, cable assemblies can be daisy-chained to provide the required distance for any deployment condition.

The 109 Series connector line meets or exceeds the pertinent requirements of Society of Motion Picture and Television Engineers (SMPTE) standard 358M on harsh environment multi channel fiber optic connectors suitable for deployment in demanding outdoor broadcast applications, including high definition television (HDTV) signal transmission.

Features

- 2- and 4-channel configurations
- Single mode and multimode compatible
- M29504/14 +/-15 Termini
- Ultra PC polish option
- Assemblies available on reels
- Hermaphroditic design for plug-to-plug connections

Benefits

- 109 plugs can function as either a plug or a receptacle to fit any system design
- Industry tested M29504/14 +/-15 Termini
- Single mode supports broadband requirements

Applications

- Deployable broadcast networks, including HDTV
- Outdoor fiber optic interconnect
- Emergency restoration systems
- Ship-to-shore communications
- Military tactical deployable systems

109 Series Fiber Optic Connector Product Specifications

Specification	Measurement/Detail
Fiber Type	62.5/125 or 50/125 multimode, 9/125 single mode
Insertion Loss	62.5/125 or 50/125 multimode fiber: -0.3dB typical 9/125 single mode: -0.4dB typical
Operating Temperature	-46 to + 71° C
Cable Seal Flexing	200 cycles at 180° flex per EIA/TIA-455-1
Mating Durability	500 cycles per EIA/TIA-455-21
Impact	EIA/TIA-455-2
Crush Resistance	450 lb minimum per EIA/TIA-455-26

109 Series Fiber Optic Connector Product Number Identification

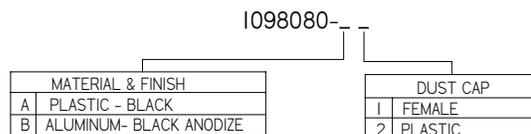
PRODUCT NUMBER IDENTIFICATION
1091000-____

MATERIAL & FINISH
A ALUMINUM - BLACK ANODIZE

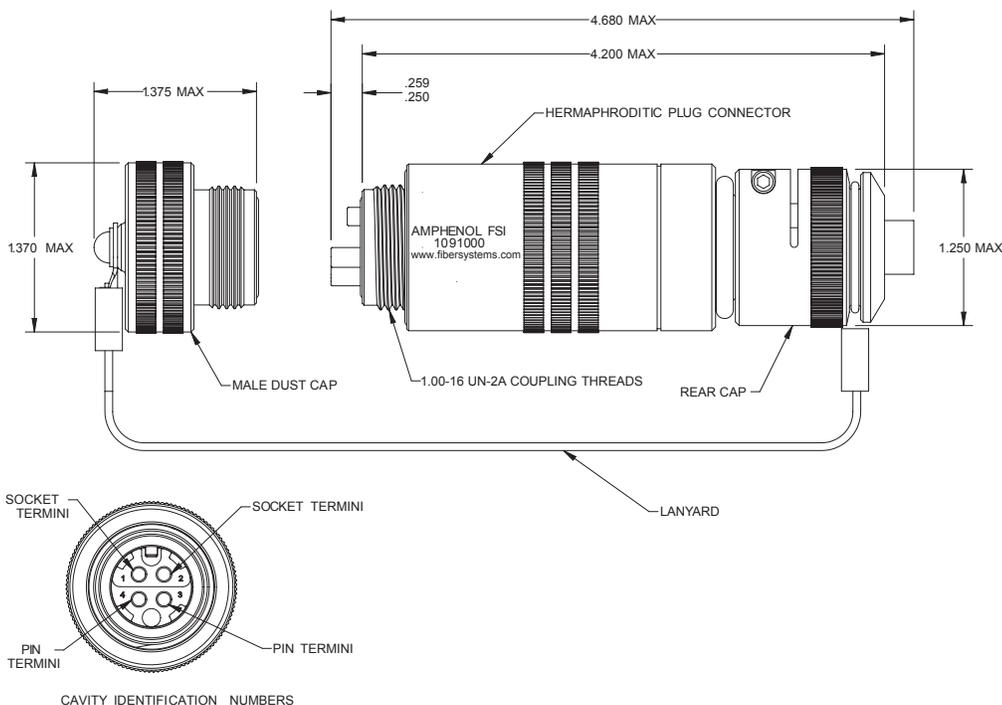
DUST CAP
1 MALE
2 FEMALE
3 PLASTIC

INSERT MATERIAL & FINISH
1 PLASTIC - BLACK
2 ALUMINUM - BLACK ANODIZE

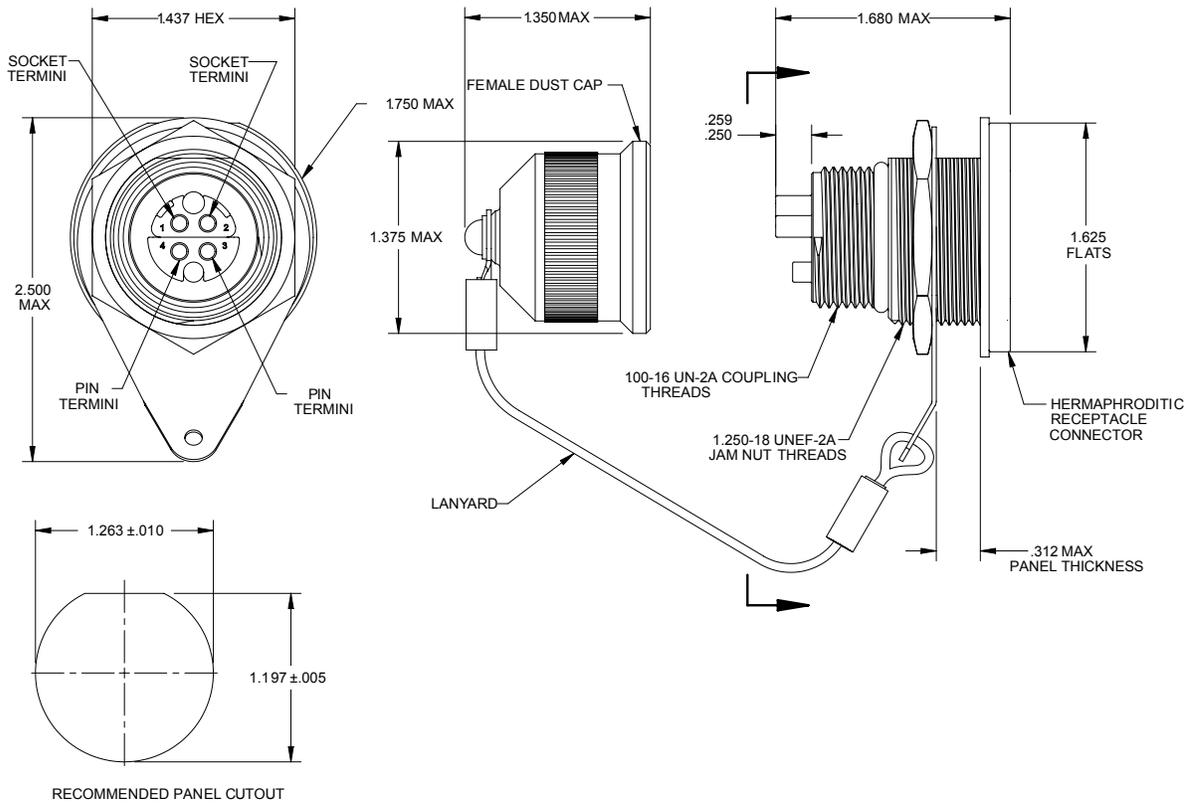
FIBER TYPE/MODE
S SINGLE MODE (YELLOW)
M MULTIMODE (BLUE)



109 Series 4-Channel Hermaphroditic Plug



1098080 4-Channel Hermaphroditic Receptacle



*Drawings are not to scale.
Measurements are in inches.*



How to Order

For more information on how to order or to obtain a price quote on our 109 Series of products, call toll free (US 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 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 worldwide. 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.