

## Amphenol Fiber Systems International



### COTS M83522 Connectors

Amphenol Fiber Systems International (AFSI) offers rugged fiber optic ST connectors for deployable and fixed communication system requirements. AFSI's connectors are designed to provide the best possible optical performance in applications with severe environmental conditions.

Commercial-off-the-Shelf (COTS) ST connectors provide the same robustness with a spring force more consistent with commercial ST connectors, enabling them to connect effectively with other ST connectors and ancillary electronics.

#### Ordering Information

Part Number	Description
MSTC2100	COTS M83522/16-DNY ST Single Mode Connector, Stainless Steel Body, 125um Pre-Radius Zirconia Ferrule, 3.0mm Black Boot.
MSTC1100	COTS M83522/16-DNX ST Multimode Connector, Stainless Steel Body, 128um Pre-Radius Zirconia Ferrule, 3.0mm Black Boot.
MSTA1300	Amphenol Fiber Systems International COTS M83522/17-NY ST Adapter, Zirconia Alignment Sleeve, Metal Body, DD-Hole Mount.



### COTS M29504 Termini

Amphenol Fiber Systems International's (AFSI) M29504 /4 & /5 style fiber optic termini, the M29K1000 and M29L1000 provide superior optical and mechanical performance. Designed to fit into MIL-DTL-38999 Series III, pin size 16 connectors, this low cost, high precision termini family is ideal for harsh environment fiber optic interconnections. Available for single mode and multimode applications, these termini are qualified to Mil standard M29504 /4 & /5 RevD

#### Ordering Information

Part Number	Description
M29A1000C	COTS M29504/14 Male Terminus
M29B1000C	COTS M29504/15 Female Terminus

## Amphenol Fiber Systems International



### FS4B Series - TFOCA II Compatible

#### 4 Channel Outdoor Hermaphroditic Fiber Optic Connectors

In 1999, Amphenol Fiber Systems International (AFSI) designed the “next generation” deployable fiber optic connector for the environmentally harsh conditions encountered during outdoor broadcast applications. These connectors provide high performance solutions when used for the transmission of digital audio and broadband high definition video signals.

The heart of the FS4B family of deployable fiber optic connectors centers on the FS4B sealed free floating termini. The unique termini design enables FS4B connectors to seal against high humidity and moisture conditions while allowing full axial and orbital movement of the mated termini, providing low insertion loss and minimal back reflection.

AFSI has further refined this successful design to address the unique needs in all harsh environments. Subsequently, the FS4B is offered in Anodized Aluminum, Stainless Steel and Brass with a variety of cable options such as tactical, armor sheathed and rodent proof.



### FS3H - SMPTE 358M Compatible

#### 4 Channel Outdoor Hermaphroditic Fiber Optic Connectors

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

AFSI’s line of FS3H hermaphroditic connectors allows the ultimate in flexibility. FS3H 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 length of cable for each specific deployment condition.

The FS3H connector line meets or exceeds the pertinent requirements of SMPTE (Society of Movie Picture and Television Engineers) 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.

### FS12A - SMPTE “TAC 12” Compatible

#### 12 Channel Outdoor Hermaphroditic Fiber Optic Connectors

Amphenol Fiber Systems International’s (AFSI) FS12A fiber optic connector is for harsh environment broadcast applications. This connector is available in either single mode or multimode and uses field-proven M29A1000 type termini.

The 12-channel FS12A connector design provides flexibility for current and future communication requirements for high fiber-count tactical broadcast networks.

Removable termini enables quick connector reconfiguration and field maintainability.

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## Ordering Information

FS4B	FS3H	FS12A	Cable Diameter
FS4B1000-H-1	FS3H1000-BLK-H	--	.190" to .239"
FS4B1000-F-1	FS3H1000-BLK-F	FS12A1000-F	.240" to .279"
FS4B1000-A-1	FS3H1000-BLK-A	FS12A1000-A	.280" to .315"
FS4B1000-B-1	FS3H1000-BLK-B	FS12A1000-B	.316" to .346"
FS4B1000-G-1	FS3H1000-BLK-G	FS12A1000-G	.347" to .379"
--	--	FS12A1000-C	.380" to .423"
--	--	FS12A1000-D	.424" to .465"
--	--	FS12A1000-E	.466" to .515"
--	--	FS12A1000-H	.635" to .665"
--	--	FS12A1000-J	.750" to .780"

## FS4B Receptacles

Part Number	Mount
FS4B6000-0-1	Flange Mount Receptacle
FS4B8000-0-1	Jam Nut Receptacle



## FS4B Termini & Alignment Sleeves

Termini	Alignment Sleeves	Type
MTFP1000C	MTFP1150	Multimode
MTFP1100C	MTFP1175	Singlemode
MTFP0000		Dummy Terminus

## FS3 Receptacles

Part Number	Mount
FS3H6000-BLK	"SQ" Mount Receptacle
FS3H8000-BLK	"D" Mount Receptacle



## FS3 Termini

Part Number	Description
MSHP1000	Singlemode - Pin
MSHP1100	Singlemode - Socket

## FS12A Receptacles

Part Number	Mount
FS12A-6000-1	Flanged Receptacle
FS12A-8000-1	Jam Nut Receptacle Rear
FS12A-8080-1	Jam Nut Receptacle Front

## FS12A Termini

Part Number	Description
M29A1000C	Singlemode - Pin
M29B1000C	Singlemode - Socket