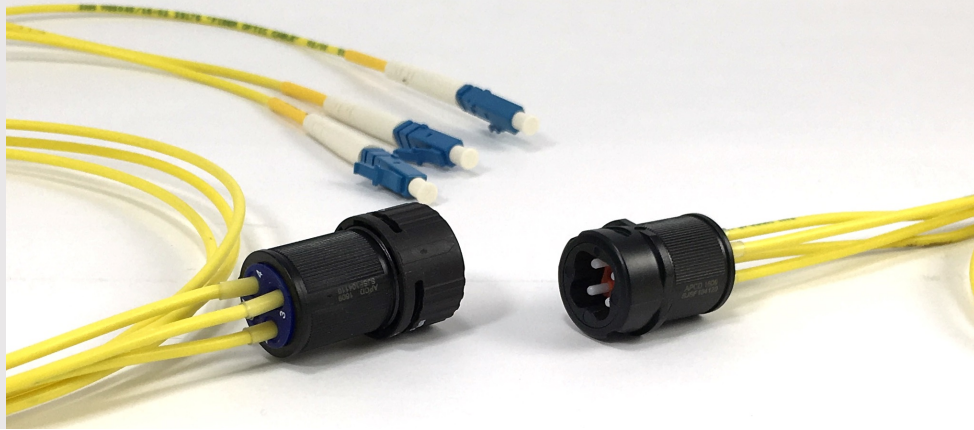


## LUMINUS FO



**Amphenol Fiber Systems International (AFSI) manufactures a complete line of next generation circular fiber optic connectors designed to meet the needs of harsh environment applications.**

Luminus are lightweight, cost-effective connectors that are highly reliable and simple to use. With multiple configurations and arrangements available, a solution can be tailored to suite your application's exact requirements. Proven solutions can be found in single engine general aviation, multiple-engine business and passenger jets, and high performance rotary aircraft. Ideal where space is limited, these innovative, "scoop-proof" connectors feature a locking mechanism, which ensures stability, are suitable for blind-mating, and are RoHS compliant.

### Features & Benefits:

- 1/4 turn bayonet style connection; push and snap connection - Makes wire installation and maintenance easy and efficient; positive "click" when locked
- Inter-facial and Triple-Barrier Seal - Enables environmental sealing (IP 67 rating)
- Multiple Keying Positions - Ensures proper connectivity
- Multiple Configurations and Accessories - Tailored solutions to meet application needs
- Visual markings - Visual aid for easy assembly
- Rugged Polyamide Housings; 500 mating cycles - Durability
- Blind-Mate Connection - Enables simple, blind mating; easy assembly
- D160, M81714, FAR25 Compliance-Meets demanding military-aerospace environmental conditions

**Amphenol Fiber Systems International, Inc. | 1300 Central Expressway N, Suite 100 Allen, TX 75013**  
Phone: (214) 547-2400 | Email: [sales@fibersystems.com](mailto:sales@fibersystems.com) | Website: [amphenol-fsi.com](http://amphenol-fsi.com)

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](http://amphenolmao.com).

# LUMINUS FO

## Shell Sizes:

08 (max dia: 0.528)



4, size 16 , Twist & Lock



9: 1, size 16; 8 size 22 Twist & Lock



3, size 16 Twist & Lock



3, size 20 Push & Pull

10 (max dia: 0.630)



9: 4, size 16; 5 size 22 Twist & Lock

11 (max dia: 0.700)



3, size 16, Push & Pull

## Accessory Part Numbers:



Shell Size	Strain Relief Single	Strain Relief Single 90°	Strain Relief Single 45°	Double Strain Relief	Double Side Tape Mount Cradle	Screw Mount Cradle	Tube Mount Cradle	Single Side Tape Tube Mount Cradle	Double Side Tape Tube Mount Cradle	Dummy Flanges	Hard Protective Caps
5	SJSA55000	SJSAA5100	SJSAA5200	SJSA56000	SJS257000	SJS257100	SJSA5V000	SJS5AV010	SJS5AV020	-	SJSA5B000
7	SJS450350	SJSA75100	SJSA75200	SJSA76000	SJS883000	SJS450250	SJSA7V000	SJSA7V010	SJSA7V020	SJS830220D	SJSA7B000
8	SJSA85000	SJSA85100	SJSA85200	SJSA86000	SJS445000	SJS450100	SJSA8V000	SJSA8V010	SJSA8V020	-	SJSA8B000
10	SJSA05000	SJSA05100	SJSA05200	SJSA06000	SJS991000	-	SJSA0V000	SJSA0V010	SJSA0V020	SJS0AA730D	SJSA0B000

# LUMINUS FO

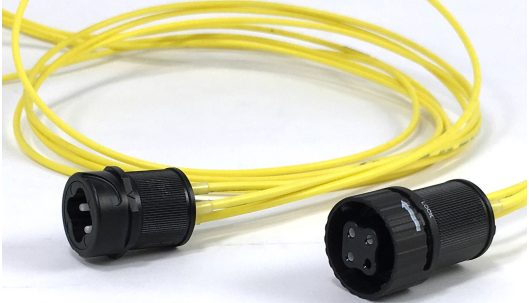
## Materials and Specifications:

	Push & Pull	Twist & Lock
<b>Materials</b>	Insulator Body: Polyamide 6/6 (Nylon)	Insulator Body: Polyamide 6/6 (Nylon)
	Grommet: Silicone Rubber	Grommet & Face Seal: Silicone Rubber
	Contact Retainer: Stainless Steel	Contact Retainer: Stainless Steel
	Contacts: Copper Alloy Gold Plated	
<b>Temperature Range</b>	-65°C to 125°C	-65°C to 125°C
<b>Temperature Life</b>	150 hours @ 95 C	500 hours @ 85°C
<b>Durability</b>	50 mating cycles	500 mating cycles
<b>Temperature Cycling</b>	5(1) Hour Cycles: 0 C to 95 C	5(1) Hour Cycles: -65°C to 125°C
<b>Thermal Shock</b>	5(1) Hour Cycles: 0 C to 95 C	-65°C to 200°C
<b>Vibration</b>	Contact Factory	30G Sinusoidal; 43.96G Random
<b>Shock</b>		300G, 3msec, Half-Sine
<b>Salt Spray</b>		5% Salt Spray @ 95°C for 48 Hours
<b>Humidity</b>		10 Days @ 25°C to 65°C, 90% - 95% RH
<b>Fluid Immersion</b>		Lubricating Oil per Mil-Prf-7808
		Cleaning Compound per Mil-Prf-87937, Alkaline Base
		Isopropyl Alcohol & Mineral Spirit Solution
	Skydrol Hydraulic Fluid	Skydrol Hydraulic Fluid
	Hydraulic Fluids per MIL-PRF-83282 MIL-PRF- 87257	Hydraulic Fluids per MIL-PRF-83282 MIL-PRF-87257
	Ethylene Glycol	Ethylene Glycol
	Propylene Glycol	Propylene Glycol
	Aviation Jet A	Aviation Jet A
<b>Seal Rating</b>	IP67	IP67
<b>Flammability</b>	UL94, V0.	UL94, V0.
		DOTG section 26.6.2 & 26.6.3
		FAR Part 25 App F Part I
<b>RoHS &amp; REACH Compliance</b>	Yes	Yes

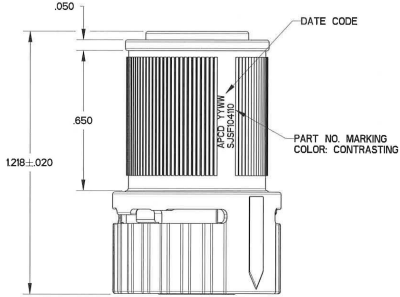
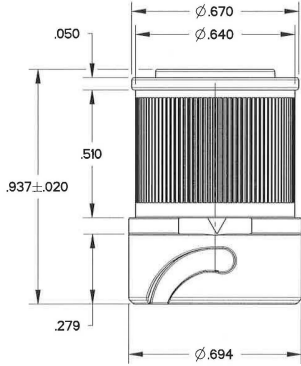
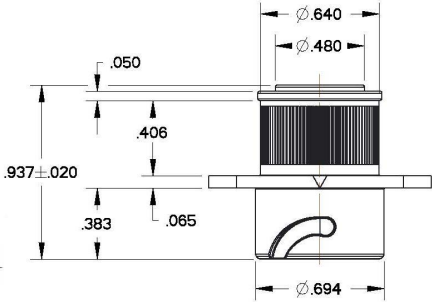
# LUMINUS FO

### How to Order :

For more information on how to order or to obtain a price quote on any of our Luminus FO products, please call us at 800-472-4225. For international calls please dial 214- 547-2400 or e-mail us at info@fibersystems.com.



### Dimensions:



### 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. Altogether, AFSI has delivered millions of fiber optic connectors globally. 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.