

# D38999

Fiber Optic Hybrid Cable Assemblies

# AmphenolFSI



**All AFSI cable assemblies are manufactured by expert technicians in our state-of-the-art, AS9100 certified facility.**

Amphenol Fiber Systems International (AFSI) designs and manufactures world class harsh environment fiber optic connectors and cable assemblies for the military and aerospace markets. Cable assemblies built with D38999 connectors, used in military, avionics, and industrial applications, are a cornerstone offering in our industry leading product line, along with TFOCA-II®, M28876 and expanded beam cable assemblies.

The D38999 circular connector series is designed for harsh environments, particularly those with wide temperature ranges and high mechanical vibrations. This electrical connector is adapted for fiber optics by using M29504/4 and /5 termini. These termini fit into any size 16 contact cavity.

Precise alignment is critical to fiber optic connectors. The tightly toleranced fiber optic D38999 connectors ensure precise alignment with precision-machined polarization keys and keyways which reduce radial misalignment. This precision yields superior optical performance when compared to standard D38999 connectors. Tight tolerance D38999 connectors also have a positive bottoming surface and conductive surface plating, assuring exceptional EMI/RFI performance

All D38999 connectors feature a non-conductive insert, making this an excellent connector choice when optical fibers and electrical wires must be used in the same connector. The D38999 series offers a wide range of shell sizes, backshells and insert patterns. Standard contacts and termini are available, making any design simple and cost-effective

## Features:

- Rugged, multi-channel D38999 series III connectors
- Incorporates proven D29504 termini
- Available in aluminum, stainless steel or composite materials
- Size 16 single and multimode termini
- Butt joint interface is guaranteed through a spring loaded terminus design

## Applications:

- Military
- Avionics
- Industrial

**Amphenol Fiber Systems International, Inc.**

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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](http://amphenolmao.com)

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## D38999 Identification & Availability:

Shell Size / Arrg	Typical	Total Contacts	Contact Size		
			20	16	12
11-2	B	2		2	
13-4	C	4		4	
13-13	C	4		2	2
15-5	D	5		5	
15-15	D	15	14	1	
15-97	D	12	8	4	
17-8	E	8		8	
17-99	E	23	21	2	
19-11	F	11		11	
19-28	F	28	26	2	
21-16	G	16		16	
21-29	G	27	19	4	4
21-39	G	39	37	2	
21-21	H	21		21	

## AFSI Cable Assemblies:

AFSI's goal is to exceed customer requirements with every cable assembly. We frequently assist customers in designing and building application specific cable assemblies. Additionally, AFSI has over 20 years of experience in building to customer prints. Our highly skilled technicians are trained to a wide variety of industry standard procedures critical to manufacturing harsh environment fiber optic cable assemblies.

All AFSI cable assemblies are manufactured by expert technicians in our state-of-the-art, AS9100 certified facility. We are proud to serve virtually every major defense company in the United States, the US Army, US Navy, US Air Force, many international defense companies and international militaries as valued customers.

## About AFSI:

Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports the broadest portfolio of reliable and innovative fiber optic interconnect solutions to withstand the harsh environments of military, aerospace, heavy industrial, broadcast and medical applications. Since inception in 1993, AFSI continues to advance its position as a global leader in harsh environment fiber optic interconnect.

AFSI has delivered millions of fiber optic solutions in more than 30 countries. Whenever there is a need for superior, cost-effective fiber optic systems to withstand the harshest of operating environments, you can rely on AFSI for engineering know-how, top-quality products and expert technical support.

Visit [www.fibersystems.com](http://www.fibersystems.com) for more information.

For more information on how to order or to obtain a price quote on our products, call toll free (U.S. only) at 800.472.4225, international calls please use 1.214.547.2400 or e-mail [info@fibersystems.com](mailto:info@fibersystems.com).

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