Fiber Optic Interconnects

Product Overview





Fiber Optics in MIL-DTL-38999 Series III Connectors

Amphenol Aerospace offers a wide range of fiber optic interconnect solutions for use in the harsh environments found in military and aerospace applications. Amphenol Aerospace has established the rugged and reliable MIL-DTL-38999 as a common connector shell platform that houses a wide variety of fiber optic termini including MIL-PRF-29504 commercial equivalent*, HDF20, ARINC 801 and MT ferrules.

*MIL-PRF-29504 supersedes MIL-T-29504. (MIL-T-29504 is still available; consult Amphenol Aerospace for more information.)

MIL-DTL-38999 Series III Tri-Start connectors are available in various insert arrangements, materials and finishes to meet any type of environmental requirement. Our MIL-PRF-29504 style and HD20 termini can be combined with most of our copper contacts to create a large assortment of hybrid fiber/copper connector combinations.

Connector	Termination	Features
	MIL-PRF-29504	CF38999 pin and socket termini that feature high precision, preradiused ceramic ferrules to help improve insertion loss performance and reduce polishing time. Products are available in both single mode and multi-mode versions. The socket has a plastic protective shroud over the ceramic alignment sleeve that incorporates a built-in anti-rotation feature. HD20 - Pin and socket termini that have the same benefits of the MIL-PRF-29504 termini, but in a smaller size 20 contact that allows for increased density in D38999 connector shells.
	JSF	Tight tolerance, nickel-plated composite plugs and receptacles approved for use in F35/JSF applications.
	ARINC 801 termini	Genderless fiber optic termini that use a precision 1.25 mm ceramic ferrule. Precision inserts with guide pins and keyed termini enhance multi-mode and single mode performance. ARINC 801 termini facilitate an angled polish for improved return loss.
	MT ferrules	Industry-standard, very high density plastic ferrules available in either 12-fiber or 24-fiber versions, in multi-mode PC, single mode PC, and single mode APC configurations.

Amphenol Aerospace also supplies a wide range of rectangular interconnect products containing MIL-PRF-29504 style, HD20 and MT Fiber Optic termini. Our rectangular interconnect products include a variety of applications including LRM surface mount and rack & panel styles - all available in hybrid fiber/copper configurations

38999

Dualol

SJT

Accessories

Aquacon

PCB

HIGH SPEED

Fiber Optics

Contacts
Connectors
Cables

EMI Filte Transien

Matrix :

83**72**3 | Matrix|Pyl

26500 Pyle

5015 Crimp Rec Release

> 2299; Class I

Back-

Options Others