

Amphenol Aerospace Operations

Fiber Optic Products

MIL-PRF-29504/5

Fiber Optic Socket Terminus Size 16

For use in Multi-Channel Fiber Optic Cylindrical Connectors
(Mil-DTL-38999 Series III)



Amphenol® multi-channel fiber optic connectors feature a precision optic interconnect system within the high performance MIL-DTL-38999 Series III connector. The fiber optic terminations offer low loss characteristics, with high reliability and repeatability. Amphenol size 16 termini have been designed to operate in the size 16 contact cavities of MIL-DTL-38999 Series III connectors and are available from 2 thru 37 channels.

Features and Performance Benefits:

- Precision ceramic ferrules which precisely positions the fiber within the termini
- Precision ceramic alignment sleeves which insure accurate fiber to fiber alignment
- Threaded protective shroud with anti-rotation key, manufactured from rugged PEEK material, provides protection for the ceramic alignment sleeve
- Stainless steel termini bodies and springs
- Laser welded components for stronger construction
- Designed for use in size 16 cavities of the D38999 Series III connector

Amphenol Part Number	Fiber size Core/Cladding	A Dia. Ref (Microns)	Ferrule Hole Tolerance	Reference Only M29504/5-XXXX
CF-198143-25A	9/125 (Singlemode)	125.5	+1,-0	M29504/5-4237*
CF-198143-126	9/125 (Singlemode)	126	+1,-0	M29504/5-4238*
CF-198143-009	50/125 & 62.5/125	126	+2,-0	M29504/5-4239*
CF-198143-010	50/125 & 62.5/125	127	+2,-0	M29504/5-4046*
CF-198143-017	100/140	145	+3,-0	M29504/5-4050*
CF-198143-29A	100/140/172 (Polyimide)	173	+1,-0	M29504/5-4296*
CF-198143-053	200/230	236	+4,-0	M29504/5-4243*

* Consult Factory for qualification status

Additional sizes available upon request: consult Amphenol, Sidney, NY for availability.

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