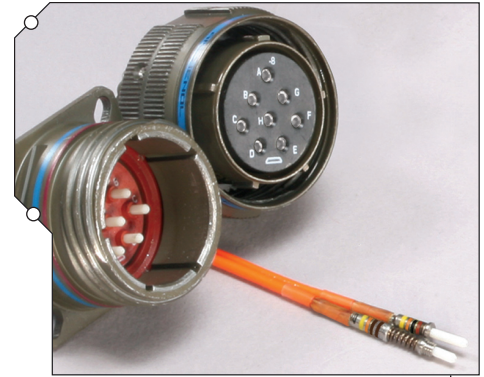


D38999 Size 16 Fiber Optic Termini

PERFORMANCE

Amphenol's Fiber Optic Termini offers pin and socket termini that features high precision, pre-radiused 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. For more information on Fiber Optics please visit www.amphenol-aerospace.com/fiberoptic.asp click on Fiber Optic Catalog 12-352



MECHANICAL/ENVIRONMENTAL

PARAMETER	PERFORMANCE
CABLE PULL OUT FORCE	22 lbs for 1 minute
MATING DURABILITY	500 cycles
SHOCK – HIGH IMPACT	MIL-S-901 Grade A, Type B, Class I
SHOCK – HALF SINE PULSE	300 g, 3 ms duration
VIBRATION - SINE	60 g, 36 cycles
VIBRATION - RANDOM	49.5 g rms
VIBRATION – RANDOM AT TEMPERATURE	41.7 g rms @ 125 deg C
SALT SPRAY	48 hours direct exposure @ 35 deg C
THERMAL SHOCK	-55 deg C to +165 deg C, 5 cycles
TEMPERATURE LIFE	165 deg C for 1000 hours

- Precision ceramic ferrules which precisely position the fiber within the termini
- Precision ceramic alignment sleeves insure accurate fiber to fiber alignment
- Socket has 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.
- Allows for multiple fiber accommodations

OPTICAL

PARAMETER	PERFORMANCE
INSERTION LOSS	0.4 dB at 1300nm (70/70 launch conditions through multi-mode 127 +2/-0 um termini, UPC polish)
CHANGE IN OPTICAL TRANSMITTANCE	Less than 0.25 dB average after exposure to multiple environmental tests

Fiber Optic Pin Ordering Information

Amphenol Part No.	Fiber Size Core/Cladding	A Dia. Ref. (Microns)	Ferrule Hole Tolerance
CF-198142-25A	9/125	125.5	+1,-0
CF-198142-126	9/125	126	+1,-0
CF-198142-009	50/125 & 62.5/125	126	+2,-0
CF-198142-010	50/125 & 62.5/125	127	+2,-0
CF-198142-017	100/140	145	+3,-0
CF-198142-029A	100/140/172	173	+1,-0
CF-198142-053	200/230	236	+4,-0

MATERIALS LIST

COMPONENT	MATERIAL
Ferrule	Zirconia
Alignment sleeve	Zirconia
Termini body	Stainless Steel – AMS 5514
Spring	Stainless Steel – AMS 5678
Alignment sleeve shroud	PEEK™
Heat shrink	Kynar, MIL-I-23053/8

Fiber Optic Socket Ordering Information

Amphenol Part No.	Fiber Size Core/Cladding	A Dia. Ref. (Microns)	Ferrule Hole Tolerance
CF-198143-25A	9/125	125.5	+1,-0
CF-198143-126	9/125	126	+1,-0
CF-198143-009	50/125 & 62.5/125	126	+2,-0
CF-198142-010	50/125 & 62.5/125	127	+2,-0
CF-198142-017	100/140	145	+3,-0
CF-198143-029A	100/140/172	173	+1,-0
CF-198143-053	200/230	236	+4,-0

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The Interconnection Leader

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