



MIL-PRF-29504 Style 2 Termini D38999 Connector Series I, III and IV



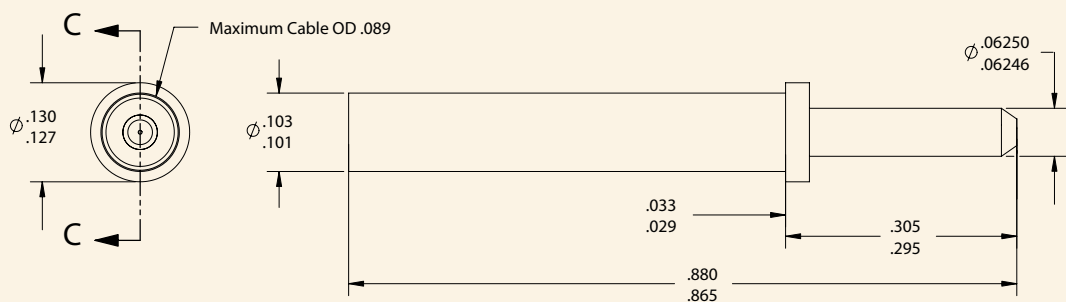
- Qualified to MIL-PRF-29504 for use with either Single-mode or Multi-mode optical fiber.
- Multi-mode qualified for 50 micron waveguide and larger optical fiber.
- Typical insertion loss of ≤ 0.5 dB Single-mode and ≤ 0.3 dB Multi-mode.
- Precision ceramic ferrules manufactured to less than 0.5 micron on all critical tolerances.
- Corrosion resistant steel metallic components.
- Standard configurations in-stock ready for same-day shipping.

High performance, qualified termini for use in D38999 Connector Series I, III and IV. XiOptics termini designs enable exceptional optical performance under the most demanding operating conditions.

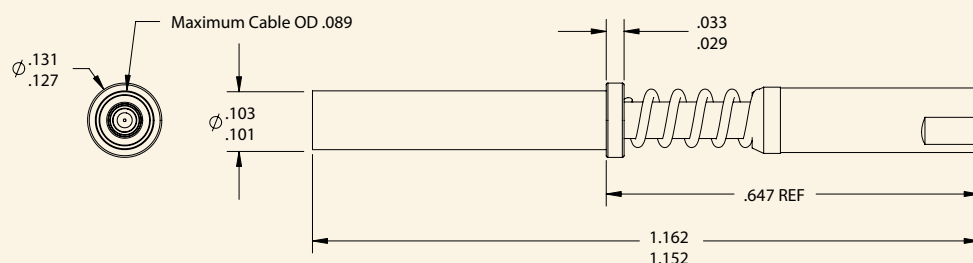
Exclusive Advantages of XiOptics Style 2:

- Termination time: up to a 30% labor reduction when compared to Style 1 29504 termini.
- Production yield: no requirement to process high temperature Kynar heat shrink strength member retainer, removes process sensitive step.
- In-the-field performance: extended rear body allows connector lip seals to interface to smooth cylindrical terminus body rather than Kynar shrink sleeve.

MIL-PRF-29504/4 Pin Terminus XiOptics Part No. XOP29504-4-XX



MIL-PRF-29504/5 Socket Terminus XiOptics Part No. XOS29504-5-XX



Dimensions in inches

MIL-PRF-29504 Style 2 Termini

ORDERING INFORMATION for XiOptics Pin and Socket Termini:

XiOptics Part No.	Fiber Size Core/Cladding	Ferrule Diameter Microns	MIL-Spec Part No.
XOP29504-4-SM-2200-1250-C2	Single-mode	125	
XOP29504-4-SM-2200-1255-C2	Single-mode	125.5	
XOP29504-4-SM-2200-1260-Q2	Single-mode	126 (SM)	M29504/4-4219
XOP29504-4-MM-2200-1260-Q2	Multi-mode	126 (MM)	M29504/4-4220
XOP29504-4-MM-2200-1270-Q2	Multi-mode	127	M29504/4-4221
XOP29504-4-MM-2200-1420-C2	Multi-mode	142	
XOP29504-4-MM-2200-1560-Q2	Multi-mode	156	M29504/4-4222
XOP29504-4-MM-2200-1570-Q2	Multi-mode	157	M29504/4-4223
XOP29504-4-MM-2200-1730-C2	Multi-mode	173	
XOP29504-4-MM-2200-2360-C2	Multi-mode	236	
XOS29504-5-SM-2200-1250-C2	Single-mode	125	
XOS29504-5-SM-2200-1255-C2	Single-mode	125.5	
XOS29504-5-SM-2200-1260-Q2	Single-mode	126 (SM)	M29504/5-4248
XOS29504-5-MM-2200-1260-Q2	Multi-mode	126 (MM)	M29504/5-4249
XOS29504-5-MM-2200-1270-Q2	Multi-mode	127	M29504/5-4250
XOS29504-5-MM-2200-1420-C2	Multi-mode	142	
XOS29504-5-MM-2200-1560-Q2	Multi-mode	156	M29504/5-4251
XOS29504-5-MM-2200-1570-Q2	Multi-mode	157	M29504/5-4252
XOS29504-5-MM-2200-1730-C2	Multi-mode	173	
XOS29504-5-MM-2200-2360-C2	Multi-mode	236	

MIL-PRF-29504 SPECIFICATIONS:

Qualification Test	Test Method	MIL-PRF-29504 Requirement
Thermal Shock	TIA/EIA-455-71	-55°C to 165°C
Temperature Life	TIA/EIA-455-4	1000 hrs at 165°C
Sine Vibration	MIL-DTL-38999	60 G rms
Random Vibration at Temperature	MIL-DTL-38999	41.7 G rms at 125°C
Random Vibration Ambient	MIL-DTL-38999	49.5 G rms
Hammer Shock	MIL-S-901, Grade A Type B Class 1	Hammer Shock from 1, 3, 5 ft on all 3 axis
Mechanical Shock	TIA/EIA-455-14, Test Condition D	300 G (18 shocks)
Mating Durability	MIL-DTL-38999	500 Cycles

Materials & Finishes	
Ferrule	Zirconia Ceramic
Alignment Sleeve	Zirconia Ceramic
Compression Spring	Stainless Steel, Passivated
Terminus Components	Stainless Steel, Passivated

Accessories & Tools	
Description	Part No.
Ceramic Alignment Sleeve	XOSS0002
Alignment Sleeve Hood	XOHB0002
Insertion/Removal Tool	M81969/14-03 (Plastic)
Insertion Tool	M81969/8-07 (Metal)
Removal Tool	M81969/8-08 (Metal)



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