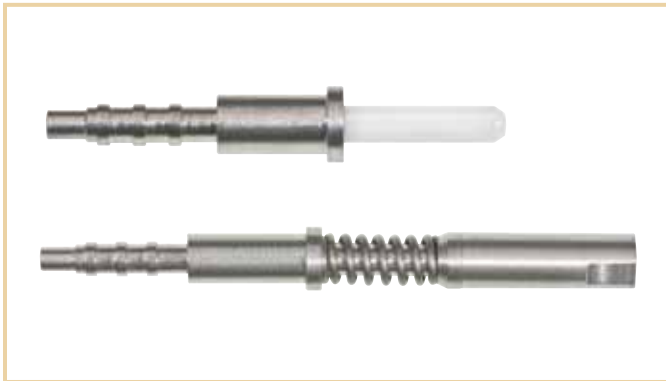




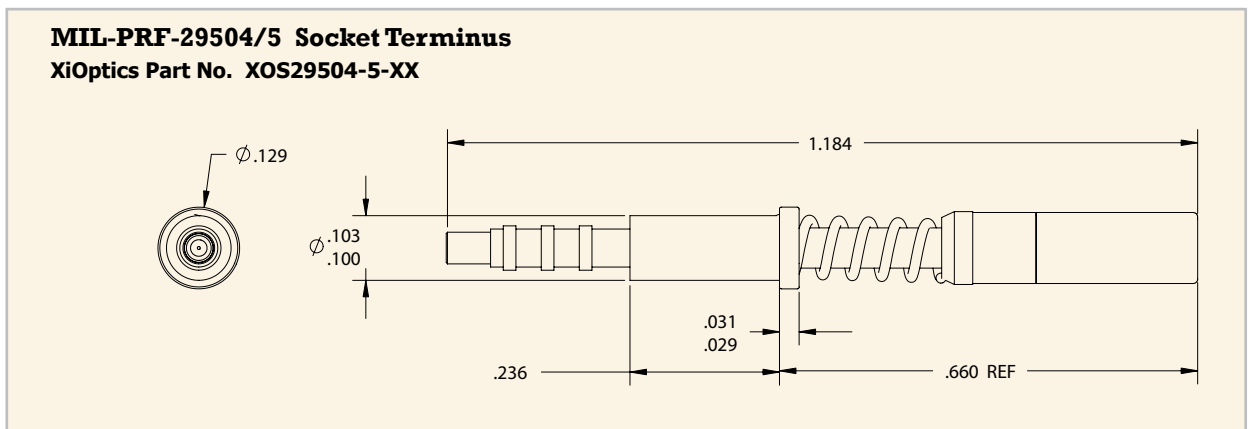
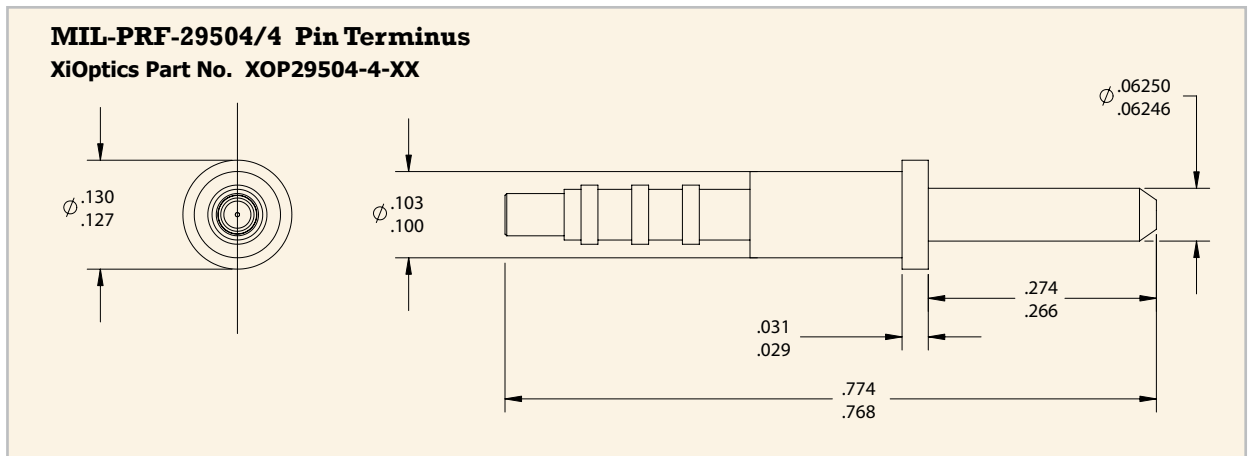
## MIL-PRF-29504 Style Termini D38999 Connector Series I, III and IV



- Typical insertion loss of  $\leq 0.5$  dB Single-mode and  $\leq 0.3$  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 termini for use in D38999 Connector Series I, III and IV.

XiOptics termini designs enable exceptional optical performance under the most demanding operating conditions.



Dimensions in inches

# MIL-PRF-29504 Style Termini

## ORDERING INFORMATION for XiOptics Pin and Socket Termini:

| XiOptics Part No.          | Ferrule Diameter Microns | Glenair      | Amphenol Fiber Systems International | Amphenol Aerospace |
|----------------------------|--------------------------|--------------|--------------------------------------|--------------------|
| XOP29504-4-SM-2200-1250-C1 | 125                      |              |                                      | CF-198142-125      |
| XOP29504-4-SM-2200-1255-C1 | 125.5                    | 181-002-125  |                                      | CF-198142-125A     |
| XOP29504-4-SM-2200-1260-C1 | 126 (SM)                 | 181-002-126S | M29K2000                             | CF-198142-126      |
| XOP29504-4-MM-2200-1260-C1 | 126 (MM)                 | 181-002-126  | M29K1001                             |                    |
| XOP29504-4-MM-2200-1270-C1 | 127                      | 181-002-127  | M29K1000                             | CF-198142-010      |
| XOP29504-4-MM-2200-1420-C1 | 142                      | 181-002-142  |                                      | CF-198142-017      |
| XOP29504-4-MM-2200-1560-C1 | 156                      | 181-002-156  | M29K5000                             |                    |
| XOP29504-4-MM-2200-1570-C1 | 157                      | 181-002-157  | M29K5001                             |                    |
| XOP29504-4-MM-2200-1730-C1 | 173                      | 181-002-173  |                                      | CF-198142-029A     |
| XOP29504-4-MM-2200-2360-C1 | 236                      | 181-002-236  |                                      | CF-198142-053      |
|                            |                          |              |                                      |                    |
| XOS29504-5-SM-2200-1250-C1 | 125                      |              |                                      | CF-198143-125      |
| XOS29504-5-SM-2200-1255-C1 | 125.5                    | 181-001-125  |                                      | CF-198143-125A     |
| XOS29504-5-SM-2200-1260-C1 | 126 (SM)                 | 181-001-126S | M29L2000                             | CF-198143-126      |
| XOS29504-5-MM-2200-1260-C1 | 126 (MM)                 | 181-001-126  | M29L1001                             |                    |
| XOS29504-5-MM-2200-1270-C1 | 127                      | 181-001-127  | M29L1000                             | CF-198143-010      |
| XOS29504-5-MM-2200-1420-C1 | 142                      | 181-001-142  |                                      | CF-198143-017      |
| XOS29504-5-MM-2200-1560-C1 | 156                      | 181-001-156  | M29L5000                             |                    |
| XOS29504-5-MM-2200-1570-C1 | 157                      | 181-001-157  | M29L5001                             |                    |
| XOS29504-5-MM-2200-1730-C1 | 173                      | 181-001-173  |                                      | CF-198143-029A     |
| XOS29504-5-MM-2200-2360-C1 | 236                      | 181-001-236  |                                      | CF-198143-053      |

## TEST SPECIFICATIONS:

| 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<br>Type B Class 1 | Hammer Shock<br>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)    |



Harsh Environment Optical Solutions

**XiOptics, LLC**  
949-302-9035  
www.xioptics.com

**Contact us:**  
techsupport@xioptics.com  
sales@xioptics.com