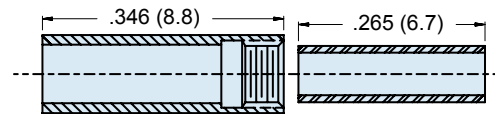


D38999  
Series III

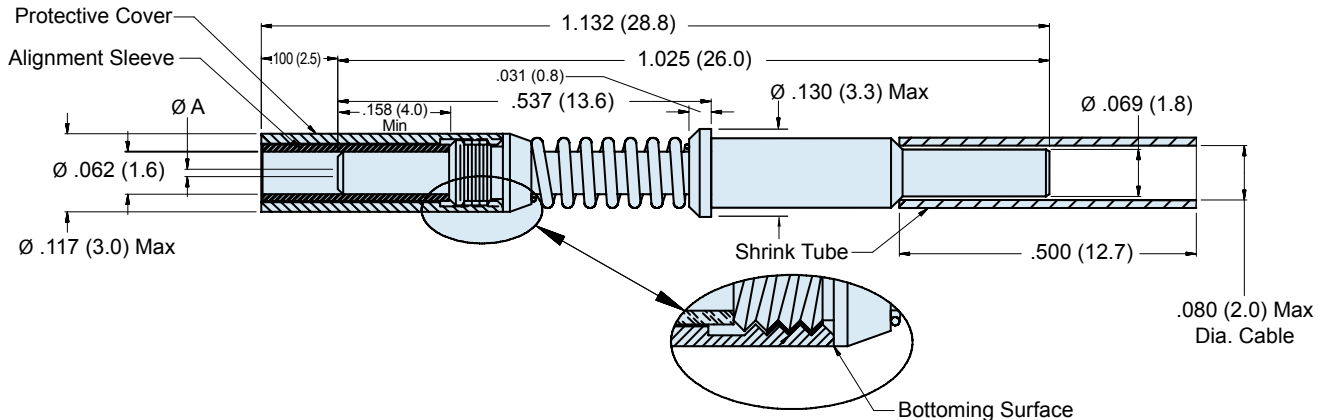
## Ultra low dB loss QPL'd Socket Terminus for MIL-DTL-38999



Glenair's unique alignment techniques maximize optical performance and provide reliable, repeatable interconnection of optical fibers. Ferrule design, critical to the performance of the termini, has traditionally relied on a machined stainless steel ferrule incorporating a precision micro drilled hole. Glenair's unique precision ceramic ferrules, with concentricity and diametric tolerances controlled within a micron (.00004 of an inch) meet the needs of high bandwidth and low allowable insertion loss applications. In fact, Glenair's ferrules are approximately 10 times more accurate than alternative designs, and have reduced insertion loss values from 1.5dB to less than .5dB (typical loss for Glenair termini is .3 dB).



**Protective Cover Alignment Sleeve  
(Included with Terminus)**



### Material and Finish

Ferrule: Zirconia Ceramic  
Alignment Sleeve: Zirconia Ceramic or Stainless Steel/Passivate.  
Terminus Assembly: Stainless Steel/Passivate  
Spacer, Spring, and Cover: Stainless Steel/Passivate  
Shrink Tube: Kynar

### Accessories

Alignment Sleeve & Protective Cover can also be ordered separately (Table II).

### Assembly

See assembly procedure GAP-015 for complete termination instructions.  
Recommended insertion/Extraction tool: P/N: M81969/14-03 or equivalent

**M29504/5  
181-001**  
Size 16 MIL-DTL-38999 Type Fiber Optic Socket Terminus



Fiber Optic

Part Number	Fiber Size Core/Cladding*	A Dia. (Microns)	Reference Only M29504/5-XXXX
181-001-125	9/125 (Single Mode)	125.5	M29504/5-4237
181-001-126S	9/125 (Single Mode)	126.0	M29504/5-4238
181-001-126	50/125 & 62.5/125	126.0	M29504/5-4239
181-001-127	50/125 & 62.5/125	127.0	M29504/5-4046
181-001-142	100/140	142.0	M29504/5-4049
181-001-144	100/140	144.0	N/A
181-001-145	100/140	145.0	M29504/5-4050
181-001-156	62.5/125/155 (Polyimide)	156.0	M29504/5-4240
181-001-157	62.5/125/155 (Polyimide)	157.0	M29504/5-4241
181-001-173	100/140/172 (Polyimide)	173.0	M29504/5-4088
181-001-175	100/140/172 (Polyimide)	175.0	M29504/5-4242
181-001-231	200/230	231.0	N/A
181-001-236	200/233	236.0	M29504/5-4243
181-001-286	200/280	286.0	M29504/5-4244
181-001-448	400/440	448.0	M29504/5-4245
181-001-533	486/500	533.0	N/A

Ceramic alignment sleeve supplied with terminus. Add **K** to the end of part number development to supply with optional stainless steel alignment sleeve e.g. 181-001-126K.

C

Accessories	
Part Number	Description
181-001-S	Ceramic Alignment Sleeve
181-001-K	Stainless Steel Alignment Sleeve
181-001-C	Protective cover