

# MIL-DTL-38999 Series III Type Fiber Optic Connection System General Information

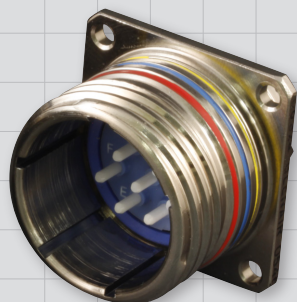
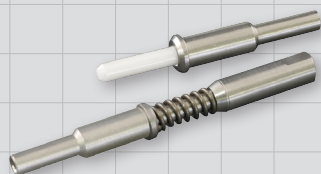


MIL-DTL-38999  
Series III Type

## MIL-DTL-38999 Series III type fiber optic termini, connectors, backshells and adapters, protective covers and cable sets

Glenair's complete line of MIL-DTL-38999 Series III Type fiber optic products includes qualified size 16 MIL-PRF-29504 precision ceramic termini, plus large core and jewel size 16 termini and size 20 termini. Tight-tolerance fiber optic connectors, backshells and accessories are available in metal and composite versions.

B



Product No.	Description	Page No.
<b>MIL-PRF-29504 QPL Fiber Optic Termini</b>		
181-001	M29504/05 Socket Terminus, Size 16	B-2
181-002	M29504/04 Pin Terminus, Size 16	B-3
187-019/187-029	Dust Caps for Pin and Socket Termini, Size 16	B-4
181-035	Large Core Fiber Socket Terminus, Size 16	B-5
181-036	Large Core Fiber Pin Terminus, Size 16	B-6
181-052	Jewel Pin Terminus, Size 16	B-7
181-053	Jewel Socket Terminus, Size 16	B-8
181-048	Dummy Sealing Plug, Size 16	B-9
181-065	Size 20 Pin Terminus	B-10
181-066	Size 20 Socket Terminus	B-11
<b>MIL-DTL-38999 Type Fiber Optic Connectors and Threaded Protective Covers</b>		
180-091	Contact arrangements and panel cut-outs	B-12
180-091 (05)	In-Line Receptacle Connector	B-14
180-091 (06)	Plug Connector	B-16
180-091 (08)	Jam Nut Mount Receptacle Connector	B-18
180-091 (H7)	Square Flange Wall Mount Receptacle Connector, Round holes (std.)	B-20
180-091 (S7)	Square Flange Wall Mount Receptacle Connector, Slotted holes	B-22
180-091 (T7)	Square Flange Wall Mount Receptacle Connector, Threaded holes	B-24
660-023/024, 660-049/050	Threaded Protective Covers, Metal and Composite	B-26
<b>Backshells and Adapters</b>		
189-016	Environmental Backshell with Banding Strain Relief	B-30
189-037	Environmental Backshell with Banding Strain Relief	B-32
377-014	Composite Thermoplastic Backshell	B-34
377-040	Composite Strain Relief Backshell	B-36
377-041	Composite Helical Conduit Adapter	B-38
189-038	Composite Backshell Adapter for Helical Conduit	B-40
712-416	Composite Backshell Adapter for PEEK Helical Conduit	B-42
630-015	Cable Bulkhead Adapter with Braid Sock and Shrink Sleeve	B-44
<b>ASAP Fiber Optic Cable Sets</b>		
FO1000 thru FO1005	Overmolded Cables, Conduit Assemblies, Field-Repairable Backshell Assemblies, and Inside-the-Box Pigtail Assemblies	B-46
<b>Single Channel Connectors for Use with MIL-PRF-29504 Termini</b>		
180-071 (-3)	Single Channel Square Flange Wall Mount Receptacle Connector	B-58
180-071 (-4)	Single Channel Jam Nut Mount Receptacle Connector	B-60
180-071 (-6)	Single Channel Plug Connector	B-62
189-047	Plug and Receptacle Protective Cover for Series 180-071 Connectors	B-64
189-055	Environmental Backshell for Series 180-071 Connectors	B-66
180-076	Fiber Optic Splice, Size 16	B-67
<b>2 Channel Connectors for Use with MIL-PRF-29504 Termini</b>		
180-052	2 Channel Receptacle Connector	B-68
180-053	2 Channel Plug Connector	B-69

### Notes

Metric dimensions appear in parentheses in diagrams and tables, based on 1 inch = 25.4 mm, for reference only.

Unless otherwise specified, the following other dimensional tolerances apply:

.xx = ± .03 (0.8) • .xxx = ± .015 (0.4) • Angles = ± 5°