

MIL-DTL-29504 /4 and /5 Termini

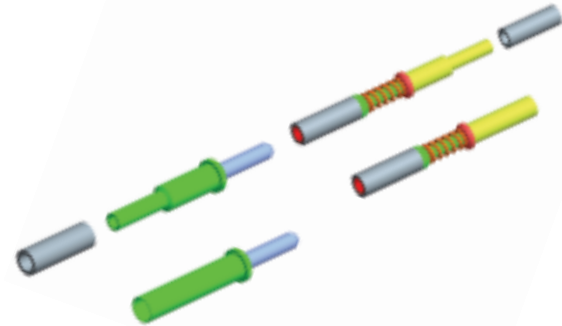
Size 16 termini for use in standard MIL-DTL-38999 connectors provide flexibility of combining electrical and optical circuits in the same connector.

ITT has been in the forefront of optical interconnect technology development for over 30 years. One of the original products were MIL-DTL-29504 termini, patented in 1976, utilizing jewels with metallic ferrule/alignment sleeve technology for fiber alignment. These termini are still in use. Improvements to the original approach include use of precision ceramic ferrules and ceramic alignment sleeves to yield lower optical loss performance. ITT now offers MIL-DTL-29504 QPL'd termini incorporating the latest ceramic alignment technology with stainless steel bodies.

Consult Factory for C.O.T.S/MIL Spec Product Availability and Qualification Status

Product Features

- Low Cost Termini Solution
- Stainless Steel Hardware
- Removable Hood
- Precision Ceramic Ferrule and Alignment Sleeve
- Used in MIL-DTL-38999 Connectors with Size 16 cavities
- Operating Temperature Range: -65C to +200C.

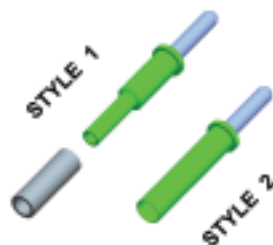


	Multimode	Singlemode
Ferrule Type	1.59 mm	1.59 mm
Fiber Type	Multimode 62.5/125	Singlemode SMF 28
Insertion Loss (dB typ.)	0.40	0.60
Maximum Loss (dB max.)	0.75	1.00
Return Loss (dB typ.)	25	55
Return Loss (dB min.)	20	50
Channel Servicing	Single	
Channel Repair	Single	
Channel Density (Chan./sq-in.)	30	
Cyclic Durability	500	

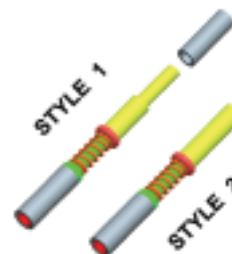
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Style 1 – Captive Strength Member Outside Barrel (Body) with Heat Shrink Tubing

Style 2 – Cable Jacket Bonded inside Barrel (Body)



PIN TERMINUS
MIL-DTL-29504/4



SOCKET TERMINUS
MIL-DTL-29504/5

		Part Numbers					
		MIL-PRF-29504/4 Pin Terminus			MIL-PRF-29504/4 Socket Terminus		
Fiber	Ferrule I.D.	Style 1	Style 2	Reference Only M29504/4-XXXX	Style 1	Style 2	Reference Only M29504/5-XXXX
Singlemode 9/125	125.5 +1/-0	031-9740-000	031-9740-000	M29504/4-4208*	031-9741-000	031-9743-000	M29504/5-4237*
Singlemode 9/125	126 +1/-0			M29504/4-4209*			M29504/5-4238*
Multimode 50/125, 62.5/125	126 +1/-0	031-9740-004	031-9740-004	M29504/4-4210*	031-9741-004	031-9743-004	M29504/5-4239*
Multimode 50/125, 62.5/125	127 +1/-0			M29504/4-4040			M29504/5-4046
Multimode 100/140	142 +1/-0	031-9740-007	031-9740-007	M29504/4-4043	031-9741-007	031-9743-007	M29504/5-4049
Multimode 100/140	144 +1/-0			M29504/4-4044			M29504/5-4050
Multimode 62.5/125/155	156 +3/-0			M29504/4-4211*			M29504/5-4240*
Multimode 62.5/125/155	157 +3/-0	031-9740-006	031-9740-006	M29504/4-4212*	031-9741-006	031-9743-006	M29504/5-4241*
Multimode 100/140/172	173 +3/-0	031-9740-011	031-9740-011	M29504/4-4087	031-9741-011	031-9743-011	M29504/5-4088
Multimode 100/140/172	175 +3/-0			M29504/4-4213*			M29504/5-4242*

PRODUCT NOTES	
1. Packaging: Packaging identification includes manufacturer's name and part number 2. Material / Finish: Ferrule: Zirconia Ceramic / N.A. Terminus assembly Stainless steel / Passivate	3. Tooling: Size 16 Plastic Insertion/Extraction CIET-16-03 Size 16 Metal Insertion – 995-0001-732 Size 16 Metal Extraction – 995-0001-731 4. Instructions: Consult factory for assembly instructions and termination tool list