

Stran Technologies

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Phone: 203.729.2572 • **Fax:** 203.729.2689**E-Mail:** sales@strantech.com • **Web site:** www.strantech.com**Military Fiber Optic Termini M29504/14 and /15**

STRAN Technologies has qualified its optical termini to the multimode requirements of MIL-PRF-29504/14 and /15 specifications and is proven to maintain or exceed the performance requirements of STRAN's M28876 and TACLIGHT™ connector product lines. Built around a singlemode quality zirconia ferrule, STRAN's military approved M29504/14 and M29504/15 series multimode optical termini offer singlemode performance at multimode affordability. The ferrule comes chamfered and pre-radiused to minimize polish time and consumption of expensive polishing films. So as to eliminate entrapped air in the bonding adhesive, ferrules are bottom-seated into the ferrule holder for unsurpassed reliability.

With its eleven, specially heat treated Beryllium Copper Belleville washers, the M29504/14 offers consistent terminus mating forces of between 5 – 7lbs. These mating forces have been proven to prevent optical discontinuities during demanding shock loads in excess of 1,500 g's in 3 milliseconds and vibration levels in excess of 40 g's RMS. The M29504/14 and M29504/15 are supplied with Fluorosilicone 'o'-rings for environmental sealing of the connector insert cavity for open face pressures of up to 1 atmosphere. Angle polished and keyed versions are available for singlemode sensor applications; however these versions are not specified in the military specification and therefore are not QPL'ed. Designed to be used with a 0.0945" hexagonal crimper, specially heat treated and gold flashed crimp sleeves capture Aramid fiber reinforced OFCC strength elements in excess of 22 pounds of tensile load. These termini are the contacts designed for both MIL-PRF-28876 and Hermaphroditic TACLIGHT™ connectors,

**SPECIFICATIONS**

Connector Line Drawing	
Pin Multimode (Long)	Max Fiber (Diameter in Microns) : 126 MIL Spec Number: M29504 / 14-4141 Stran Part Number: 410-0006-126
Socket Multimode (Long)	MIL Spec Number: M29504 / 15-4171 Stran Part Number: 410-0006-126 Max Fiber (Diameter in Microns) : 126
Pin Singlemode (Long)	MIL Spec Number: M29504 / 14-4131 Stran Part Number: 410-0006-126 Max Fiber (Diameter in Microns) : 126
Socket Singlemode (Long)	Max Fiber (Diameter in Microns) : 126 MIL Spec Number: M29504 / 15-4181 Stran Part Number: 410-0006-126
Termini Material	Bodies are Stainless Steel
Termini Mechanical Specifications	Connectors incorporating these termini typically meet high impact shock and vibration requirements while maintaining the optical path for error free data transfers. Other ferrule materials can be made available Short travel with extremely high loads, (approximately 5-7 lbs). The zirconia ferrules are held to extreme tolerances (1um TIR).