MISSION-CRITICAL





Rugged, High-Power Fiber Optics for Free Space Optical (FSO) Communications and Directed Energy Applications



Eye-Beam® Power

Size #8 termini solution for multi-pin mil/aero connectors

MULTI-PIN CONNECTOR PACKAGING FOR EYE-BEAM POWER



SuperNine "better than OPL" MIL-DTL-38999 Series III

- Connector series optimized for optical alignment
- High vibration and shock coupling mechanism
- Space-grade Class G versions available with outgas processing
- All standard military / aerospace material and plating options available including space-grade nickel and gold
- Robust attachment platform for back-end accessory fittings ensures reliable optical media routing alignment and protection



- High vibration and shock coupling mechanism
- Space-grade Class G versions available with outgas processing
- All standard military / aerospace material and plating options available including space-grade nickel and gold
- Robust attachment platform for back-end accessory fittings ensures reliable optical media routing alignment and protection
- Precision-machined, shielded and shrouded micro-miniature rectangular connector series
- Connector series optimized for ultra high-density packaging and small panel footprint
- Rack-and-panel mating versions available with dual-lobe and keved polarization
- Space-grade Class G versions available with outgas processing
- All standard military / aerospace material and plating options available including space-grade nickel and gold





Series 806 Mil-Aero



microminiature circular



Series 792 high-performance micro rectangular

SuperNine, Series 792, and Series 806 Mil-Aero

TEST FIXTURE FOR EYE-BEAM POWER CONNECTORS



HOW TO ORDER					
Sample Part Number		059-0088	-0072	-08	-1250
Basic Part Number	Eye-Beam Power Connector Test Fixture				
Length	in inches. Example -0072 = 72"				
Fiber Size (microns)	-08 = SM 8/125 -09 = SM 8.2/125 -10 = PM 10/125 -25 = LMA 25/260				
Wavelength (nanometers)	Example -1250 = 1250 nanometers			,	

EXPANDED-BEAM

MISSION-DRIVEN DESIGN

Eye-Beam® Power

Rugged, High-Power Fiber Optics for **Directed Energy and FSO Applications**

A major impediment to the deployment of directed energy technology utilizing highpower lasers has been the lack of a connectivity solution to facilitate line replaceable unit (LRU) maintenance in the field. Glenair is pleased to introduce Eye-Beam Power, the world's first ruggedized, high-optical power terminus for multi-pin connectors. Leveraging our field-proven expanded beam technology, Eye-Beam Power utilizes a novel expanded optical beam approach to create a robust and stable optical connection in any environment. The industry-standard size #8 contact module allows Eye-Beam Power to be loaded into a multitude of connector form factors such as the Glenair "better than QPL" SuperNine MIL-DTL-38999 Series III, the high-performance Series 792 rectangular, and micro miniature Series 806 Mil-Aero.

Glenair has also developed a signature optical-alignment assembly process that yields reliable cable assemblies in accordance with the most stringent Mil-Aero industry requirements. Our 20W and higher optical power solution is compatible with standard polarization-maintaining 1064nm fiber. 1550nm and other wavelengths can also be supported. The Glenair expanded-beam termini experiences low temperature rise at peak power, minimizing the need for additional heat sinking or thermal management beyond that of a simple copper wire overbraid. Contact the factory for additional information.

Low temperature rise at peak power Signature assembly

■ Size #8 drop-in expanded-

beam optical contact for rugged military/

aerospace applications

■ Powerful 20W and higher

suited for directed energy

optical contact ideally

Turnkey incorporation

Compatible with 1064nm

polarization-maintaining

fiber with a 0.5 dB typical

in Glenair signature

applications

connectors

insertion loss

process optimizes optical alignment for missioncritical reliability



INTERCONNECT SOLUTIONS

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