



Opto-Electronic Connectors for Ethernet, Video, and High-Speed Data Applications



PRODUCT SELECTION GUIDE

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SMALL FORM-FACTOR • HARSH-ENVIRONMENT

Opto-Electronic Connectors

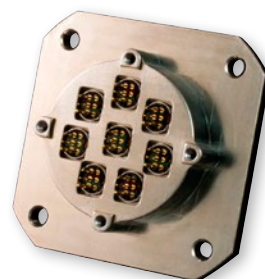
Environmentally sealed, D38999 type triple-start connectors housing turnkey copper-to-fiber transceiver technology

Glenair is able to offer our Opto-Electronic solutions customers turnkey multichannel receptacle connectors housing integrated transceiver technology for fast/gigabit Ethernet, DVI and HDMI video, as well as various high-speed data transfer protocols. The two available connector designs incorporate Glenair small form-factor ARINC 801 type opto-electronic contacts (050-301) or an ELIO® equipped configuration that intermates with the standard ELIO® 2.5mm fiber optic terminus (050-307). Receptacles are populated with factory-tested size #8 contacts, and are ready for immediate use as fiber-optic-to-electrical circuit board I/O connectors. Special size #8 cavity adapters are also available to enable construction of compatible plug connectors on the cable side.

- **Catalog solutions include:**
 - 2.5mm ELIO® solution for multimode Ethernet, video, and high-speed data applications**
 - 1.25mm ARINC 801 multimode fiber optic terminus solution for Ethernet, video, and high-speed data**
- **Made-to-order configurations with a wide range of connector packages including Glenair Series 80 Mighty Mouse**



Special size #8 cavity adapters facilitate construction of standard fiber optic plug connectors that intermate with the size #8 opto-electronic transceiver contacts



Opto-electronic receptacle connectors are populated with size #8 contacts, and ready for immediate assembly in I/O to circuit board applications

ELIO® is a registered trademark of SOURIAU

	Part No.	Description
	050-304	050-304 MIL-DTL-38999 Series III Type Receptacle Connectors with Size 8 Opto-Electronic Contacts The 050-304 series of Active Opto-electronic sealed panel mount connectors offers customers the power to convert from electrical to fiber optic signals within a D38999 connector to support high speed fiber optic transmission in harsh environments. The 050-304 incorporates size 8 active contacts in one of three standard configurations to enable optical Transmitters, optical Receivers or Optical Transceivers, or custom configurations.
	059-0001	059-0001 Size 8 cavity adapter kit for 1.25mm ARINC 801 terminus Size 8 cavity adapter will convert D38999 size 8 cavities (Twinax, Coax, Quadrx or power) into ARINC 801 fiber optic cavities. Kit includes the adapter and an ARINC 801 terminus.
	059-0002	059-0002 Size 8 cavity adapter for ELIO® 2.5mm terminus Size 8 cavity adapter will convert D38999 size 8 cavities (Twinax, Coax, Quadrx or power) into ELIO® fiber optic cavities per EN4531.
 <i>(patent pending)</i>	050-313	050-313 Opto-Electronic Transceiver, MIL-DTL-38999 Type 2.5mm ELIO® Compatible, 100Mbps – 4.25Gbps Glenair 050-313 is a D38999 Type 11-02 receptacle connector incorporating an opto-electronic transceiver operating from 100Mbps to convert electrical signals to multimode fiber. The Glenair optical transceiver is ideal for harsh-environment, extreme shock, vibration and temperature avionics and military applications where copper cable link distance, bandwidth, weight or bulk make the use of twisted pair, Twinax or Quadrx copper conductors unacceptable.
	050-303	050-303 Opto-Electronic Receiver with Mighty Mouse connectors, 100Mbps – 2.5 Gbps Glenair 050-303 optical transceiver, connectorized with Series 805 Mighty Mouse connectors, employs state-of-the-art opto-electro-mechanical technology to provide effective harsh environment fiber-optic interconnect solutions for high-speed digital data.

