Opto-Electronic Connectors

Environmentally sealed, 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 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 termini 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 (shown here: Glenair HiPer-D high-performance M24308 D-Sub)

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

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<th>Part No.</th>
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| 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, Quadrax 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, Quadrax or power) into ELIO® fiber optic cavities per EN4531. |
| 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 Quadrax 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. |

visit glenair.com for detailed product datasheets