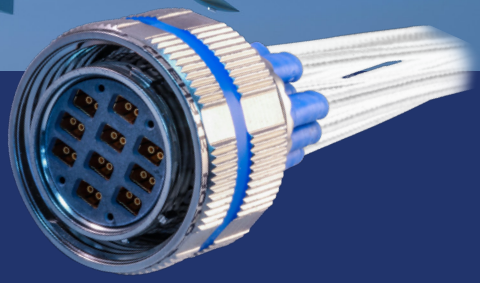
SERIES 806 MIL-AERO

VersaLink™

Series 806 High-Density Mil-Aero circular connectors with VersaLink differential twinax contacts



Series 806 offers significant size and weight savings while meeting key performance MIL-DTL-38999 Series III benchmarks for a broad range of applications such as commercial and military aerospace, defense systems, and more. Designed for rugged use in harsh vibration, shock, and environmental settings—as well as high-altitude, unpressurized aircraft zones, with aggressive voltage ratings and altitude immersion standards, the smaller form-factor twinax contact design enables from 1 to 32 pairs within a single size 24 Series 806 connector. Glenair Signature Series 85 VersaLink® twinax contact modules provide higher speed and density than conventional mil-spec twinax solutions. Individually shielded pairs result in virtually zero crosstalk with data rates up to 28 Gbps. These highly-engineered differential twinax modules are designed for support of high-speed serial data protocols including USB4, PCIe, 100 Gigabit Ethernet, DisplayPort, and HDMI.

Supported Networking Protocols
10 Gb Ethernet
25 Gb Ethernet
40 Gb Ethernet
50 Gb Ethernet
100 Gb Ethernet

Supported Peripheral and Display Protocols
DVI
HDMI 2.1
DisplayPort 2.0
SATA 3
USB 3.0
USB 3.1 Type C
USB 3.2
USB4
PCIe 4
QSFP28

SERIES 806: 38999 PERFORMANCE IN A SMALLER, LIGHTER PACKAGE

Series 806 MIL-DTL-38999 Type

Series 806 has passed the following MIL-DTL-38999 Series III vibration tests:

- Sine Vibration: 60g
- Random Vibration at elevated temperature: 43g rms
- Random vibration at ambient temperature: 49g rms

Other performance features include:

- 70,000 ft. altitude immersion
- 500 mate / demate cycles

- Next-generation small form factor aerospace-grade circular connector
- Designed for rugged use in harsh application environments such as aircraft, industrial robotics, and more
- Upgraded environmental, electrical, and mechanical performance
- Integrated anti-decoupling technology
- High-speed VersaLink contact layouts and combo VersaLink and high density 20HD and 22HD contact arrangements
- +200°C temperature rating

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