



Innovative differential twinax contact technology in a proven-performance mil-spec rectangular

High-speed serial data protocols (USB 3.1 Gen2, USB-C, SATA, PCIe, DisplayPort, and HDMI) all have transmission rates in the 10Gb/s+ range for each data pair. In order to provide truly high-speed signal integrity for these bandwidth-dependent protocols, Glenair has invented a new contact technology called VersaLink™ which delivers outstanding impedance matching and crosstalk isolation at both the cable-to-connector interface, as well as between connector and board. VersaLink is a highly-engineered differential twinax contact module that may be packaged in a wide range of both circular and rectangular connector formats such as the MIL-DTL-83513 Micro-D. This high-density, factory-terminated solution provides mating reliability, ruggedness, signal integrity, and deployment simplicity.

VersaLink Micro-D:
shielded differential twinax M83513 solution
High-speed / high-density
Outstanding NEXT (crosstalk) performance
Hybrid VersaLink contact module arrangements with standard Micro-D inserts for signal / power

Supported Networking Protocols
10Gb Ethernet
40Gb Ethernet

Supported Peripheral and Display Protocols
DVI (Digital Visual Interface)
HDMI 2.1 (High-Definition Multimedia Interface)
DisplayPort 2.0
SATA 3 (Serial AT Attachment)
USB 3.0 (Universal Serial Bus)
USB 3.1 Type C (Universal Serial Bus)
USB 3.2 (Universal Serial Bus)
USB4 (Universal Serial Bus)
PCIe 4 (Peripheral Component Interconnect)

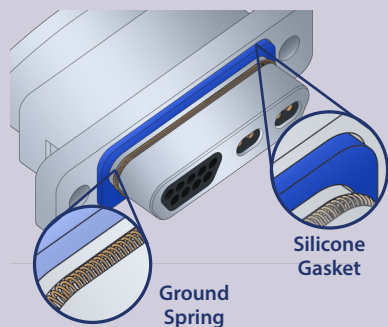
MATERIALS AND FINISHES

Connector Shell: Aluminum Alloy 6061
 Insulator (V): Rigid Dielectric.
 Insulator (M): Liquid Crystal Polymer (LCP) or Polyphenylene Sulfide (PPS)
 Flange Seal: Fluorosilicone Rubber, Blue
 Pin Contact: Copper Alloy, Gold over Nickel Plating
 Socket Contact: Copper Alloy, Gold over Nickel Plating
 Ground Spring: Stainless Steel, Gold Plating
 Ground Pin: Copper Alloy, Gold Over Nickel Plating
 Hardware: 300 Series Stainless Steel, Passivated
 Encapsulant: Epoxy Resin Hysol EE4215

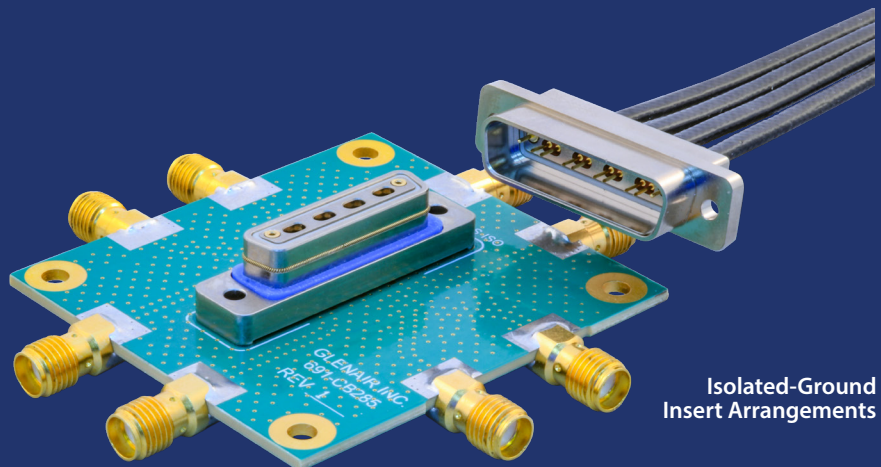
PERFORMANCE SPECIFICATIONS

Current Rating: 3 Amp (Micro-D pins)
 DWV: 600 VAC Sea Level
 Insulation Resistance: 5000 Megohms Minimum
 Contact Resistance (Contact M): 8 Milliohms Maximum
 Low Level Contact Resistance: 32 Milliohms Maximum
 Operating Temperature: -55°C To 150°C
 Mating Force (Contact M): (10 Ounces) X (# Of Contacts)
 Mating Force (Contact V): (5 Ounces) X (# Of Contacts)

EMI SHIELDING AND ENVIRONMENTAL SEALING



Plug connectors feature a gold-plated stainless steel ground spring for EMI protection, and a silicone gasket for environmental sealing.



Isolated-Ground Insert Arrangements