



# M SERIES HSD

## FEATURES AND BENEFITS

QPL Sourced MIL-38999 Series III Connector

Meets IP67 environmental spec

Approved as VITA 76 Spec (High-Performance Cable)

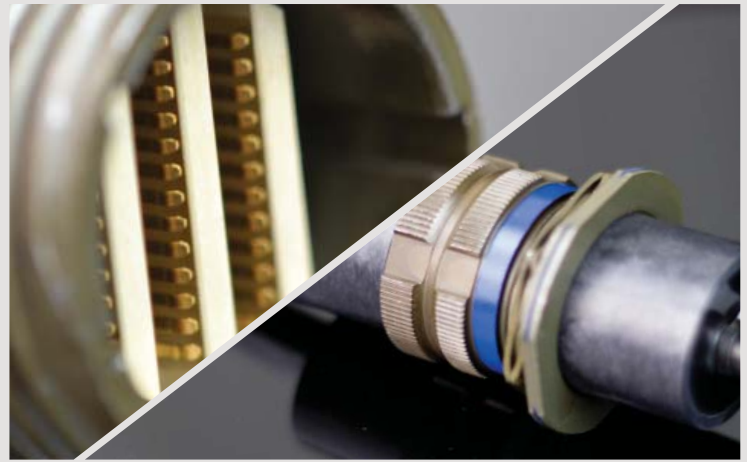
## SPECIFICATIONS

<b>Impedance</b>	100 $\pm$ $\Omega$ Differential
<b>Crosstalk</b>	< -30 dB up to 5 Ghz
<b>Insertion Loss</b>	< 1 dB up to 5 Ghz
<b>Power per Contact</b>	2 A at 10 °C temperature rise
<b>Low-level Contact Resistance</b>	<20 m $\Omega$
<b>Insulation Resistance</b>	>300 M $\Omega$ for 1 min. at 300 VDC
<b>Dielectric Withstanding Voltage</b>	No defect for 1 min at 300 VDC
<b>Contact Material</b>	Copper Alloy
<b>Contact Finish</b>	100 $\mu$ " min Ni
<b>Backshell</b>	Aluminum with Plating Options
<b>Cycle Life</b>	500 Mating Cycles
<b>Shock and Vibration</b>	VITA 46
<b>Dust and Ingress</b>	IP67

# HIGH SPEED, LOW DRAG

Virginia Panel's M Series HSD connector is a high speed performance connector engineered to fit inside a standard MIL-38999 Series III backshell. The backshell and bulkhead are QPL-sourced so that the connector retains all the environmental protections associated with MIL-38999.

The connector supports a variety of high speed protocols and comes in four 38999 backshell sizes: M9, M13, M17, and M23.



## HIGH SPEED PROTOCOLS AVAILABLE

Protocols	M9	M13	M17	M23
USB 2.0 / Std A & B	✓	✓	✓	✓
USB 3.0 / Std A & B		✓	✓	✓
10Base-T	✓	✓	✓	✓
10GBase-T		✓	✓	✓
100Base-TX	✓	✓	✓	✓
SATA	✓	✓	✓	✓
eSATA	✓	✓	✓	✓
Micro-SATA		✓	✓	✓
Mini-SAS			✓	✓
PCIe-X16				✓
4X IB (CX4)			✓	✓
QSFP IB			✓	✓
12X IB				✓
DVI			✓	✓
Display Port			✓	✓
HDMI		✓	✓	✓
SFP+			✓	✓