Meritec’s Hercules HS-D, High Speed D-Sub, embedded in the rugged rectangular MIL-DTL-24308 shell provides both durable and high-bandwidth interconnect schemes suitable for Military, Aerospace, and ruggedized commercial high-bandwidth applications not previously accommodated by Industry standard connectors.

### Features & Benefits
- Rugged lightweight MIL-DTL-24308 Shells
- Available as Plug-Cable Assemblies and Panel-Mount, Board-Mount Receptacles with SMT tails
- Available in Shell Sizes DE, DA, DB, DC, and DD
- Available in positions 19, 31, 51, 75, and 108
- Supports data rates in excess of 10 Gb/s and differential-pair signaling with low-skew pairs and shielding for EMI/RFI protection
- Available in IP-67 Rating
- Matched impedance design of 100 ohm
- Cable types available in 26, 28, and 30 AWG
- Jacket types available: LSZH, PVC, FEP, and Halar Expando
- Custom-length cable assemblies available
- Fully electrically tested
- Utilizes standard MIL-DTL-24308 hardware

### Specifications
#### Electrical
- Impedance: 100 ± 5 ohms differential at 100ps rise time
- Cross talk (NEXT): < –40 dB up to 7 GHz from multiple aggressors
- Insertion loss: < –1 dB up to 10 GHz
- Return loss: < –20 dB up to 10 GHz
- Power per contact: 3 amp
- DWV: No defect for 1 min at 300 VDC

#### Mechanical
- Contact material: Copper Alloy
- Standard contact finish: 50 µ-inch min AU over 100 µ-inch min Ni
- Contact durability: 10,000 cycles
- Shell Material: Aluminum Alloy / Zinc Alloy
- Shell Plating: Chromate over Cadmium, Electroless Nickel

#### Environmental
- –40 °C to +125 °C
Hercules HS-D High Speed D-Sub

Meritec’s Hercules 38999 is now approved as a VITA 76 (High-Performance Cable) Standard

Shell Size | Number of Contacts | Number of Differential Pairs | A | B | C | D | E | F | G
---|---|---|---|---|---|---|---|---|---
DE (Ref. 9) | 19 | 5 + 2 Spare | .980 | .400 | .250 | 1.21 | .60 | 1.16 | .36
DA (Ref. 15) | 31 | 9 + 3 Spare | 1.310 | .750 | .250 | 1.54 | .60 | 1.49 | .36
DB (Ref. 25) | 51 | 16 + 1 Spare | 1.850 | 1.250 | .250 | 2.09 | .60 | 2.03 | .36
DC (Ref. 37) | 75 | 24 + 1 Spare | 2.500 | 1.850 | .250 | 2.73 | .60 | 2.68 | .36
*DD (Ref. 50) | 108 | 34 + 3 Spare | 2.410 | 1.800 | .350 | 2.64 | .70 | 2.59 | .46

* This size contains 3 rows of contacts. All other sizes contain 2 rows of contacts.

All dimensions are in inches.

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