This Product is a very high-density backplane connector accommodating 588 signal pairs at data rates up to 10 Gb/s. A pair of these connectors will have 3724 connects, but by virtue of the patented Meritec Hermi contact, the insertion force will be 148 pounds. That's \(\pi\) to 1/3 times the force required by a conventional connector interface. Additionally, the Meritec Hermi contact design has inherent electrical performance attributes that allow very high-data rates.
9-Position Single-Ended Cable Assembly

BELDEN 179DT  28.5 AWG
SEPARATE WIRES WITH
EXPANDO SHEATH

SIGNAL PATTERN GSG

Right-Angle 9-Position Single-Ended Board Mount
Right-Angle Board-Mount Reference Dimensions

PC BOARD LAYOUT

Panel Cut Out

9-Position Single-Ended Vertical Board Mount
Hermaphroditic-Pitch Range

Meritec Hermi family of contacts

| Pitch mm | 1.27 | 1 | .8 | .65 | .5 |
Meritec Hermi-Contact Comparison

- Comparison at same normal force
  - Conventional two tyne contact
  - Meritec Hermi contact

Initial Insertion

- Comparison at same normal force
  - Conventional two tyne contact
  - Meritec Hermi contact
Peak Insertion Force

Comparison at same normal force

Conventional two tyne contact

Meritec Hermi contact

Dual-Wipe Engagement

Comparison at same normal force

Conventional two tyne contact

Meritec Hermi contact
Increasing Normal Force

![Graph comparing insertion force at the same normal force between a conventional two tyne contact and a Meritec Hermi contact.]

Same Normal Force

![Graph comparing insertion force at the same normal force between a conventional two tyne contact and a Meritec Hermi contact.]

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