

Design Flexibility with Amphenol® Brush Contact Rectangular Connectors

Amphenol Aerospace offers an even wider range of rectangular interconnect products.

Low Mating Force Connectors with Brush Contacts

Amphenol's Low Mating Force Connector Series utilizes the Bristle Brush contact (70% to 90% reduction in mating/unmating forces over conventional pin-socket contact). Easy mating/unmating makes high circuit counts practical.

Standard Body Styles

- Mother Board
- Daughter Board
- Input/Output
- PC

Standard Arrangements:

- 2, 3 or 4 row arrangements with 10 to 100 contacts per row in one contact per row increments (.100" x .100" sq. grid pattern)

Termination Styles:

- PCB through-hole solder
- Wire wrap (mother board)
- Crimp to discrete wires (input/output)
- Solderless compliant into 0.040 plated through holes (mother board)

Flexibility in Mounting to Printed Circuit Boards or Discrete Wires:

- Perpendicular boards
- End to end boards
- Parallel boards
- Wire to boards
- Card extenders
- Polarization keys provide up to 256 possible positions
- Locking screws and bushings available for attaching to boards

Military Versions meet MIL-DTL-55302/166 through /172

Read More : Catalog 12-035

More Design Flexibility in Brush Contact Connectors:

Hybrid Connector Configurations:

- Combinations of Brush, power and shielded coax contacts
- Fiber optic MIL-PRF-29504 termini size 16 or HD20, and 90° termini can be incorporated into low mating force connectors in combination with brush contacts

Smaller Sized Brush Contact Connectors

- Same grid patterns (100" x 100"), but in smaller sizes - as few as 10 brush contacts per connector

Docking Connectors

- Brush contact long life without degradation in performance provides customers with reliability in frequent docking applications such as: handheld GPS units, handheld radios, rugged computers, controllers, scanners and cellular phones.

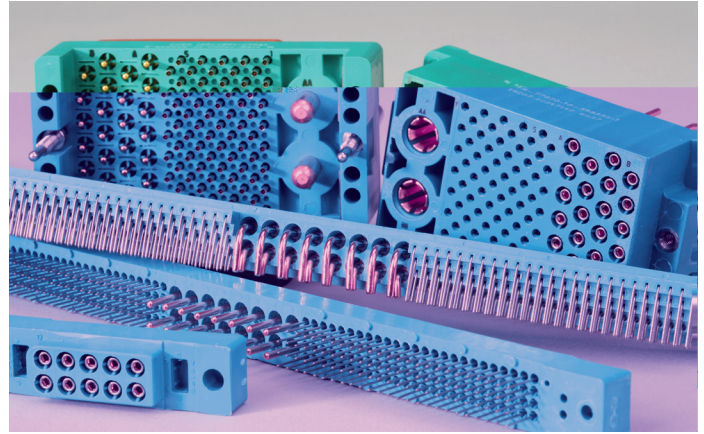
Read More : Data Sheet 204

Now - HDB³ High Density Brush Contact Connectors

The new connector series of brush connectors incorporates an even higher density contact pattern and lower mated height than Amphenol's standard low mating force rectangular connectors. These HDB³ connectors utilize the same durable and reliable B³ brush contact, but in a tighter .070 X .060 staggered grid spacing. They offer the advantage of a higher density pattern in a compact-height connector that will take up less board space; thus saving cost over adding additional connectors to meet power requirements. HDB³ connector styles include mother board, daughter board, input/output and a stacker style.

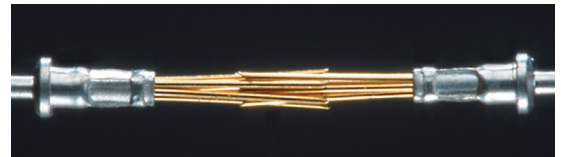
Read More : Data Sheet 201

See these products on website: www.amphenol-aerospace.com

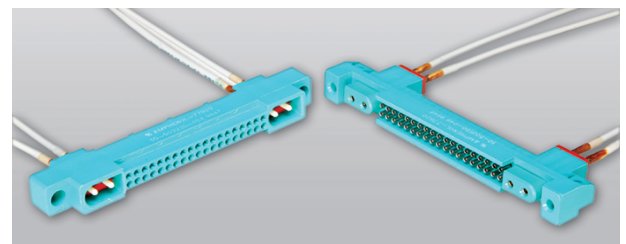


Low Mating Force Connectors - Including Hybrid Configurations of Brush and Power Contacts

Amphenol® Brush Contact Advantages:



- 70% - 90% reduction in mating/unmating forces
- Multiple contact interfaces - Strands of high tensile wire are bundled together to form brush-like contacts. By intermeshing two multi-strand wire bundles, a superior electrical connection is made.
- Provides redundant current paths, 14-70 (points of contact) per mated contact with a gas tight junction.
- Proven durability and long contact life: 100,000 mating cycles, even when hot swapped.
- Documented intermittency free performance - no 10 nano second discontinuities during 50m cycles of 0.010 displacement.
- Overall cost effectiveness (reduced life cycle costs)



Brush Contacts and Fiber Optic Termini Combined

New HDB³ - Tighter Grid for Higher Density of Brush Contacts

