

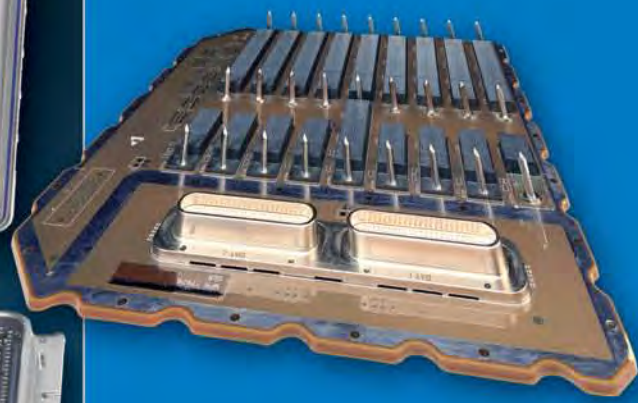
Amphenol Ruggedized, Non-Floating, Brush Rack and Panel Connectors



TABLE OF CONTENTS

Amphenol Ruggedized, Non-Floating Brush Rack and Panel Connectors

- Table of Contents 96
- Features, Options 97
- Performance Data,
Hybrids with RADSOK® Power Contacts 98



Ruggedized, Non-Floating Brush Rack & Panel Typical Markets:

- C4ISR/Tactical Radios
- Military Avionics

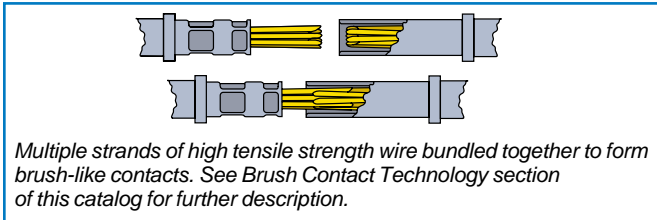


FEATURES & OPTIONS

RUGGEDIZED, NON-FLOATING BRUSH RACK AND PANEL CONNECTORS

This connector series utilizes Amphenol's durable and reliable B³ contact system in a rugged, non-floating Rack and Panel connector.

BRUSH CONTACT TECHNOLOGY



Included in this series are digital and power/digital "hybrid" insert arrangements. The hybrid series utilizes Amphenol's high performance RADSOK® power contacts along with Amphenol's proven B³ contact. (See next page for more description of RADSOK® contacts.)

AVAILABLE FEATURES:

- High performance B³ brush contacts
- 0.100 inch x 0.100 inch square grid footprint
- Environmentally sealed at connector interface when mated (optional feature)
- Environmentally sealed connector mounting interface
- EMI protection is available at mounting surfaces and connector interface
- ESD protection is available – allows use of Class 3 hardened chips (4KV max. voltage)
- Tapered mating surface provides near zero X & Y plane movement between mated connectors



Ruggedized, Non-Floating Brush Rack and Panel Connector (6 RADSOK® High Power Contacts and 74 Brush Contacts)



2 Bay Shell Configuration of Ruggedized, Non-Floating Rack and Panel Connector (126 Brush Contacts per Bay)

BACKPLANE CONNECTOR	MODULE CONNECTOR
<ul style="list-style-type: none"> Connector Mounting Holes Optional Internal EMI Grounding Strap (Provides EMI Protection to D38999, III Standards) Optional ESD Protecting Faraday Cage Robust Machined Aluminum Shell Optional Dynamic Sealing Gasket Conductive Sealing Gasket Provides a Water & EMI Seal High Performance B³ Contacts Tapered Mating Surface PCB Mounting Holes Rear Panel Mounting 	<ul style="list-style-type: none"> Front Panel Mounting Connector Mounting Holes Optional ESD Intercepting B³ Contacts High Performance B³ Contacts

- Introduction/ Pig. Solutions/ Brush Contact
- LRM (Line Replaceable Modules)
- Staggered/ GEN-X
- Hybrids - Fiber Optics/ HI Speed/ RF/ Power
- Options/ Accessories
- Ruggedized VME 64x/ VITA 60, 66
- High Density HDB3/ HSB3/ HI Speed
- Standard Brush
- Low Mating Force MIL-DTL-55302
- Hybrids - Signal/ Power/ Cook/ Fiber Optics
- Docking Conn./ Accessories/ Install.

- Rack & Panel Brush Ruggedized
- UMD/LMS Rectangular Interconnects
- Other Rectangular Interconnects

Introduction/
Pkg. Solutions/
Brush Contact

LRM (Line Replaceable Modules)
Options/
Accessories

Hybrids - Fiber Optics / Staggered/
Hi Speed/RF/Power
GEN-X

Ruggedized
VME64x/
VITA 60, 66

High Density
HSB3
Hi Speed

HDB3

Low Mating Force MIL-DTL-55302
Docking Conn./
Accessories/Install.

Hybrids - Signal/Power / Standard
Coax/Fiber Optics
Brush

Rack & Panel
Brush
Ruggedized

LMD/LMS
Rectangular
Interconnects

Other
Rectangular
Interconnects

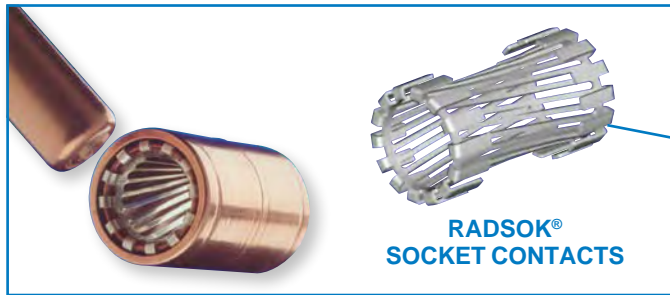
CONNECTOR PERFORMANCE:

Standard performance requirements for 126 pin signal version:

- Durability: 500 mating cycles
- Operating Temperature: -60° to 125°C
- Current Rating: 3 amperes Hot swap 1 ampere max. (load dependent) - non ESD protected version only.
- Insulation Resistance: 1 gigaohm minimum
- Dielectric Withstanding Voltage: 500V, 60 Hz RMS @ sea level, 300V, 60 Hz RMS @ 15,000 ft. elevation
- Solderability: J-STD-004, -005 & -006
- Salt Fog: EIA-364-26B, test condition B
- Humidity: EIA-364-31B, test method III
- Vibration: EIA-364-28B, test condition III
- Shock: EIA-364-27B, test condition G
- ESD Protection - intercepts ESD events on signal pins from 4kV to 25kV

Consult Amphenol Aerospace, Sidney NY for more information on ruggedized, non-floating rack and panel connectors to fit your particular interconnect needs.

HIGH POWER IS ACHIEVED WITH HYBRID RACK AND PANEL CONNECTORS THAT UTILIZE AMPHENOL® RADSOK® CONTACTS



RADSOK® CONTACT TECHNOLOGY:

- Socket cylinder within female contacts has several equally spaced longitudinal beams twisted into a hyperbolic shape.
- As male pin is inserted, axial members in the female half deflect, imparting high current flow across the connection with minimal voltage loss.
- The hyperbolic, stamped grid configuration ensures a large, coaxial, face-to-face surface area engagement.
- Ideal for crimp termination applications requiring repeated mating cycles and high current with low milli-volt drop.

For more information on RADSOK® products from Amphenol: www.amphenol-industrial.com and www.radsok.com
Contact Amphenol Aerospace Operations, Sidney, NY (Phone: 607-563-5011) or Amphenol Power Solutions, Fraser, MI (Phone: 586-294-7400)



Custom 2-Bay Ruggedized, Non-Floating Brush Rack and Panel Connector (126 brush contacts per bay)



Standard 126 pattern in Ruggedized, Non-Floating Brush Rack and Panel Connector.

