



## APPLICATION DATASHEET

# AirMax VS® Power Connector

Backplane Power Connector –  
part of the AirMax VS® connector family

### > Description

Complementing the AirMax VS® Connector family, FCI is adding a higher rated power connector. The AirMax VS Power connector follows upon the design of the Metral 2mm High Power but on a hard metric footprint.

Each power connector offers either 2 or 4 contacts, termed "1x2" and "2x2" respectively. Each connector module is designed to carry a total of 80 maximum Amps (see current rating chart). The unique open design helps carry air flow around the contacts reducing heat.

### > Features & Benefits

- HM Equipment Practice
- Available in a 1x2 or 2x2 configuration
- Current Rating to 80Amps
- Voltage Rating 150V
- Available with first-mate/last-break sequencing, 2 mating lengths available
- Protected Backpanel connector UL 60950 Compliant (Finger Probe)
- Designed for use with AirMax VS 4 & 5 Pair signal connectors
- Layout compatible with AirMax VS family
- Press-fit termination



### > Target Markets/Applications

- Data Com
  - Servers
  - Storage Devices
  - Computing Platforms
- Telecom
  - Switches
  - Routers
  - Internet Equipment
- Medical
- Instrumentation



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### > Materials

- Contacts: Copper Alloy
- Plating:
  - Gold over nickel on separable interface
  - Tin-lead over nickel on press-fit tails
- Housing: High temperature thermoplastic, UL 94V-0 compliant

### > Electrical Performance

Product Current Ratings

Number of Connectors fully powered	Copper Pad Weight	Max Current Per Contact (amps)	
		1x2	2x2
1	5oz, double sided	40	20
Up to 5 adjacent	5oz, double sided	32	14
1	2oz, double sided	32	15
Up to 5 adjacent	2oz, double sided	27	12

### > AirMax VS® Power Connectors - Part Numbers

- Receptacle
  - 10028916-xxxxP00

Note: "x" designates FMBL loading pattern options.

- Headers
  - 10028917-001 2x2 Contacts
  - 10028918-001 1x2 Contacts

Note: The Receptacle is used for either Header. See Customer print for further details.

### > Environmental

- Per Telcordia Central Office requirements

### > Mechanical Performance

- Mating force: 31.2N max per connector
- Unmating force: 9.0N min per connector
- Press-fit insertion force: 67N max per individual contact tail

### > Specifications

- Product Specification
  - GS-12-220
- Application Specification
  - GS-20-023
- Safety
  - UL 60950 & IEC 60950-1
  - Prevention of Operator Access to Energized Parts

### > Approvals & Certifications

- Telcordia

### > Packaging

- Tubes

### > Future Products

- Co-Planar Power Connector
- Power Connector for use with 2&3 Pair AirMax VS signal connectors



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