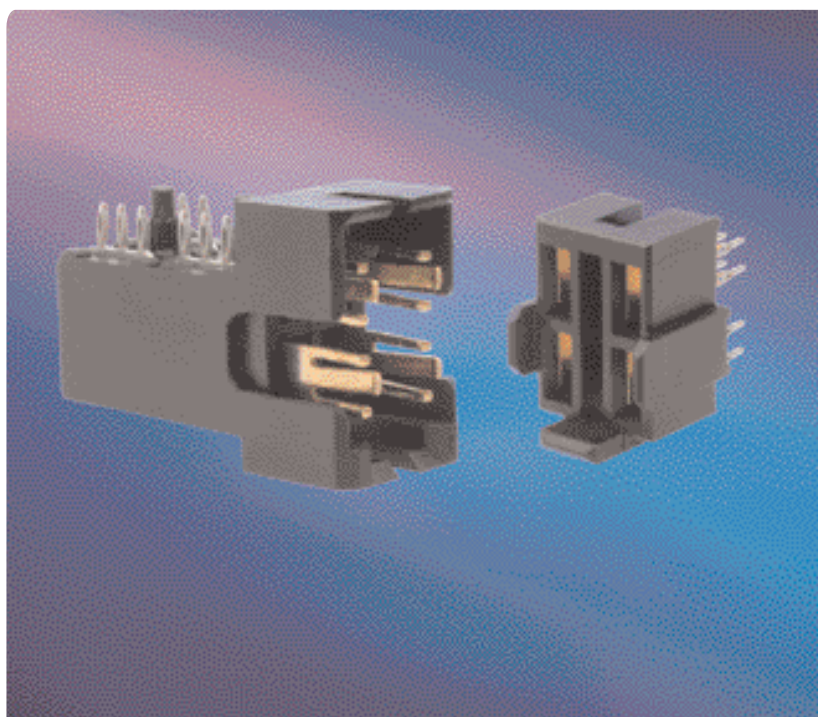


METRAL® HIGH-POWER CONNECTORS

Part of the Metral Backplane Connector Family

DESCRIPTION

These compact high-power connectors complement the Metral® Standard Signal and Power connector offering. The right-angle headers and vertical receptacles enable high-power connections at the backplane to daughtercard interface. Each high-power module provides either 2 or 4 individual contacts positioned in a 1x2 or a 2x2 array. Each connector module is designed to carry up to 80 amps current. The chart under Electrical Performance provides more detailed information on current rating. The unique insulator design includes openings to help air flow around the contacts to improve heat dissipation.



FEATURES & BENEFITS

- Available in 1x2 or 2x2 contact configurations
- Rated for up to 80 Amps current for a single module
- Voltage Rating: 150V
- Receptacle connectors can be provided with two contact lengths to enable first-mate/last-break sequencing
- Protected backplane receptacle connector is UL 60950 (Finger Probe) compliant
- Layout compatible with Metral 2mm backplane connector family
- Press-fit termination

TARGET MARKETS / APPLICATIONS

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

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

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

ELECTRICAL PERFORMANCE

Number of Connectors Fully Powered	Copper Pad Weight	Current Ratings (maximum amps per contact)	
		1 x 2	2 x 2
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

PART NUMBERS

Part Number	Description
10009536-001	Vertical receptacle, 8.0mm mating length
10009536-002	Vertical receptacle, 6.5mm mating length
10025058-XXXX	Vertical receptacle, "XXXX" designates FMLB (First Mate, Last Break) loading pattern options
10009542-001	Right-angle header, 2x2 Contacts
10009556-001	Right-angle header, 1x2 Contacts

Notes:

- Each receptacle can be used with either header. See product drawings for additional information.
- Add a "LF" suffix to the part number to designate Lead-Free and RoHS-compliant options. AVAILABLE Q4 2006.

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 AND CERTIFICATIONS

- Telcordia

PACKAGING

- Tubes