

Metral® Power, High Power and Coax Connectors

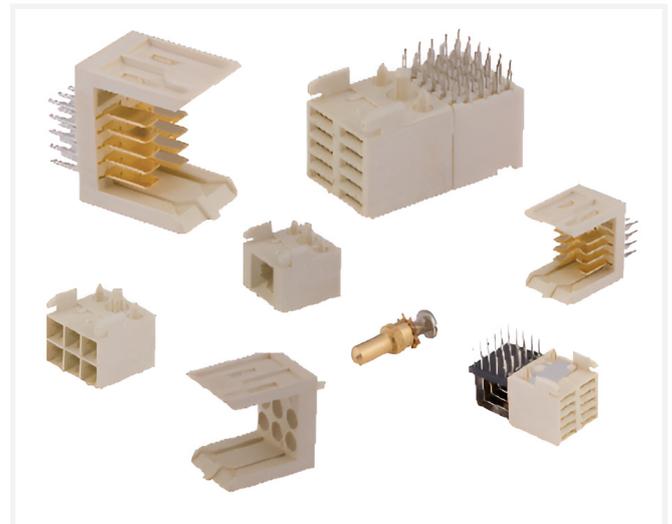
METRAL® POWER, HIGH POWER AND COAX CONNECTORS

Metral® Power, High Power and Coax Connectors are standalone modules, end-to-end stackable with Metral® signal modules. The connectors are designed in accordance with IEC 61076-4-104 and Telcordia GR-1217-CORE.

Metral® Power, High Power and Coax Connectors support power solution with current rating of 3 to 40A for each pin. They are available in 4 and 5 row versions.

The power connector range featuring blade contacts is offered in vertical headers and right angle receptacles, right angle headers and vertical receptacles. The coax range includes single and multi pin versions.

Metral® backplane connectors meet Futurebus+ standards to support applications in data, industrial and instrumentation, medical and telecom markets.



TARGET MARKETS



FEATURES

- Modular and scalable
- Varying pin length enables first-mate, last-break capability
- Dual beam contact design for receptacles blade
- Current rating of 3A to 40A
- Power connector range with blade contacts uses same PCB footprint as signal modules
- Press-fit, Solder-to-Board and Pin-in-Paste terminations available
- Power and coax couplers are available
- Mini coax connectors are available

BENEFITS

- End-to-end stackable with other power, signal and coax modules
- Allows sequential connection of pins for design flexibility and offers protection
- Provides electrical reliability and withstands vibration
- Caters to different application requirement
- Interchangeable solution offers design flexibility
- Caters to different application requirement
- Suitable for Rear Plug-Up (RPU) application
- Compact size and small footprint

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic; UL 94V-0
- Contact: Copper Alloy
- Plating: Performance-based plating

MECHANICAL PERFORMANCE

- Power
 - Mating Force : 1.5N max. per pin
 - Unmating Force : 0.30N min. per pin
- Coax
 - Mating Force: 0.9N
 - Unmating Force: 0.9N

ELECTRICAL PERFORMANCE

- Power
 - Dielectric Withstanding Voltage : 1000V rms
 - Insulation Resistance: 5000M Ω min.
 - Current Rating: 3A-40A
- Coax
 - Electrical Impedance: 50 Ω and 75 Ω
 - Operating Voltage: 250V
 - Insulation Resistance: 3000M Ω min.

ENVIRONMENTAL

- Power
 - Operating Temperature Range: -55°C to +125°C
- Coax
 - Operating Temperature Range: -65°C to +165°C

APPROVALS AND CERTIFICATIONS

- IEC 61076-4-104
- Telcordia® GR-1217-CORE

SPECIFICATION

- Product Specifications: GS-12-180, GS-12-453
- Application Specifications: BUS-20-075, TA-941

PACKAGING

- Tube for Press-fit and Solder-to-Board Terminations
- Tape and Reel for Pin-in-Paste Termination

TARGET MARKETS/APPLICATIONS



Telecom



Data



Avionics
Oil & Gas-Down the hole
HVAC
Renewable
Embedded Computing
Heavy Duty Loaders, Conveyers
Factory Automation
Energy Management System
ESS



Medical

PART NUMBERS

METRAL® STANDARD POWER (3A)

Right Angle Receptacle (RAR)		Termination	Vertical Header (VH)	
Row			Row	
4	5		4	5
88949-102LF	89096-102LF	Press-fit	70236-101LF	89099-111LF
89039-101LF	85876-102LF	Solder-to- Board		
72651-101LF	63793-101LF	Pin-in-Paste		

METRAL® HIGH POWER (40A)

Description	Part Numbers
Right angle receptacle housing	89092-101LF
Receptacle contact	85995-103LF
Wide body header housing	88911-101LF
Contact screw PCB	91570-001LF

METRAL® COAX

Description	Part Numbers
Right angle receptacle housing	70244-102LF
Receptacle contact STB	70239-002LF
Wide body header housing	88913-101LF
Contact STB	88980-002LF

Note: The above table captures only a representative list of parts. Please refer our website, www.amphenol-cs.com or contact Amphenol for other part number details.

Lead-free and RoHS compliant products are designed by the addition of LF as a suffix to the dash number.

WHERE INNOVATION CONNECTS

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