

Metral® Right Angle Header and Vertical Receptacle

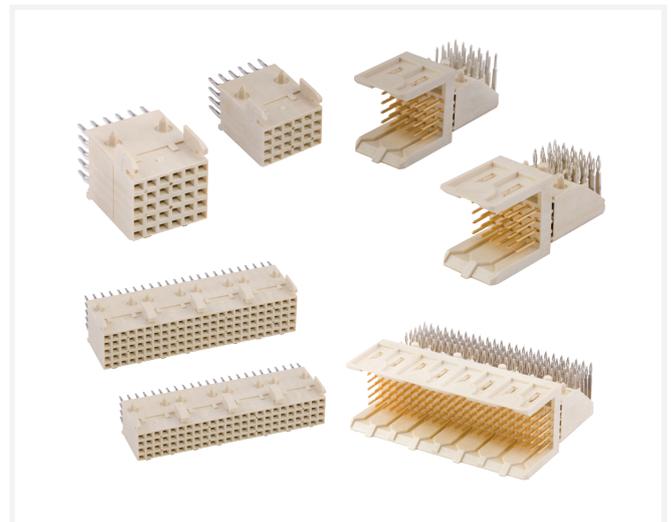
FUTUREBUS+ CONNECTORS RATED FOR BACKPLANE, COPLANAR AND MEZZANINE APPLICATIONS

Metral® product family offers the widest range of backplane connector solutions, which includes right-angle header and vertical receptacle series. The connectors are designed in accordance with IEC 61076-4-104 and Telcordia GR-1217-CORE.

Metral® right-angle headers and vertical receptacles offer a high contact density of 250 contacts per 100 mm connector length and a contact pitch of 2 mm. They are available in 4-row and 5-row versions.

Metral® vertical receptacles can be used with vertical headers for mezzanine applications.

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



TARGET MARKETS



FEATURES

- Modular and scalable, available in 1, 2, 4 and 8 modules
- 250 contacts per 100 mm connector length
- Press-fit, Solder-to-Board and Pin-in-Paste terminations
- Varying pin length enables first-mate, last-break capability
- 4-row and 5-row versions available
- Dual beam contact design for receptacles
- Locating pegs option available

BENEFITS

- Flexible modular length without any loss of contact position
- High signal density
- Caters to different application requirement
- Allows sequential connection of pins for design flexibility and offers protection
- Caters to different connector sizes
- Provides electrical reliability and withstands vibration
- Enables accurate positioning of connector on PCB, holds connector in place

TECHNICAL INFORMATION

MATERIALS

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

ELECTRICAL PERFORMANCE

- Dielectric Withstanding Voltage: 1000 Vrms
- Insulation Resistance: 5000 MΩ min.
- Current Rating: 1 A (all contacts powered)

ENVIRONMENTAL

- Operating Temperature Range: -55 °C to +125 °C

SPECIFICATIONS

- Product Specifications:
GS-12-445, 446, 447, 448

MECHANICAL PERFORMANCE

- Mating Force: 0.45 N max. per pin
- Unmating Force: 0.15 N min. per pin

APPROVALS AND CERTIFICATIONS

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

PACKAGING

- Tube for Press-fit and Solder-to-Board terminations
- Tape and Reel for Pin-in-Paste termination

TARGET MARKETS/APPLICATIONS



Telecom



Data



Industrial & Instrumentation



Medical

PART NUMBERS

Find part number details using the search box on www.amphenol-cs.com

Right Angle Header (RAH)		Module	Termination	Vertical Receptacle (VR)	
Row				Row	
4	5			4	5
HM1L41LDP000H6PLF	HM1L51LDP000H6PLF	1	Press-fit	85757-1101LF	85761-1101LF
HM1L42LDP000H6PLF	HM1L52LDP000H6PLF	2	Press-fit	85758-1101LF	-
HM1L43LDP000H6PLF	HM1L53LDP000H6PLF	4	Press-fit	85759-1101LF	85763-1101LF
HM1L44LDP000H6PLF	HM1L54LDP000H6PLF	8	Press-fit	85760-1101LF	-
HM1L41LAP000H6PLF	HM1L51LAP000H6PLF	1	Solder-to-Board	HM1S41TSR000H6LF	HM1S51TSR000H6LF
HM1L42LAP000H6PLF	HM1L52LAP000H6PLF	2	Solder-to-Board	HM1S42TSR000H6LF	HM1S52TSR000H6LF
HM1L43LAP000H6PLF	HM1L53LAP000H6PLF	4	Solder-to-Board	-	HM1S53TSR000H6LF
HM1L44LAP000H6PLF	HM1L54LAP000H6PLF	8	Solder-to-Board	HM1S44TSR000H6LF	HM1S54TSR000H6PLF
HM1L41LFP000H6PLF	HM1L51LFP000H6PLF	1	Pin-in-Paste	-	-

Note: Vertical receptacles with Solder-to-Board termination available upon request

WHERE INNOVATION CONNECTS
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