

METRAL® VERTICAL HEADER AND RIGHT ANGLE RECEPTACLE

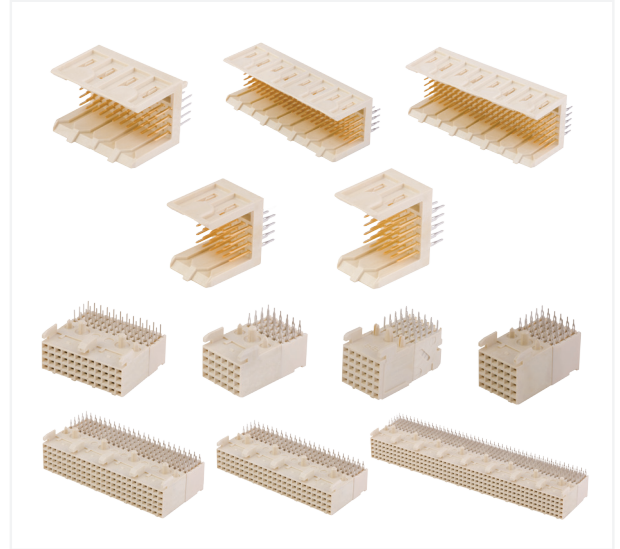
OVERVIEW

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

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

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

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



FEATURES

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

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
- Custom loading
- Provides electrical reliability and withstands vibration
- Enables accurate positioning of connector on PCB, holds connector in place
- Allows flexibility of low and high speed signals



TECHNICAL INFORMATION

MATERIALS

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

ELECTRICAL PERFORMANCE

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

ENVIRONMENTAL

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

SPECIFICATIONS

- Product Specifications: GS-12-180, 453
- Application Specifications: BUS-20-073, 061

MECHANICAL PERFORMANCE

- Mating Force: 0.45N 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

- Data
- Industrial & Instrumentation
- Medical
- Telecom

PART NUMBERS

Right Angle Receptacle (RAR)		Module	Termination	Vertical Header (VH)	
Row				Row	
4	5			4	5
88945-102LF	89047-102LF	1	Press-fit	70232-116LF	89006-116LF
88946-102LF	89093-102LF	2	Press-fit	70233-116LF	89007-116LF
88947-102LF	89094-102LF	4	Press-fit	70234-116LF	89008-116LF
88948-102LF	89095-102LF	8	Press-fit	70235-116LF	89009-116LF
89035-102LF	85863-102LF	1	Solder-to-Board	88951-101LF	74741-101LF
89036-102LF	85864-102LF	2	Solder-to-Board	88952-101LF	74742-101LF
89037-102LF	85865-102LF	4	Solder-to-Board	88953-101LF	74743-101LF
89038-102LF	85866-102LF	8	Solder-to-Board	88954-101LF	74744-131LF
-	10126372-102LF	1	Pin-in-Paste	-	-

BPLMETRALVHRA0615EA4

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[FCI / Amphenol:](#)

[70234-121](#) [89007-110](#) [HM1F51TAP000H6LF](#) [89008-110LF](#) [73933-1003LF](#) [70234-126LF](#) [70232-126LF](#) [70233-126LF](#) [89006-111LF](#) [89007-111LF](#) [70234-116LF](#) [70232-116LF](#) [70233-116LF](#) [70233-111LF](#) [70235-111LF](#) [70232-111LF](#) [70234-111LF](#) [89007-116LF](#) [89006-116LF](#) [70233-115LF](#) [70232-121LF](#) [89095-102LF](#) [89093-102LF](#) [89094-102LF](#) [89035-102LF](#) [89047-102LF](#) [70232-125LF](#) [89006-110LF](#) [89007-121LF](#) [89094-202LF](#) [88951-161LF](#) [88946-302LF](#) [88945-302LF](#) [89006-120LF](#) [88948-102LF](#) [70235-121](#) [70233-111](#) [89007-121](#) [89047-102](#) [89093-102](#) [89006-111](#) [88946-102](#) [89094-102](#) [89008-111](#) [88945-102](#) [HM1F41FDP000H6LF](#) [HM1F41FDP000H6PLF](#) [HM1F41FDP131H6PLF](#) [HM1F41TAP000H6LF](#) [HM1F41TBP000H6LF](#) [HM1F42FDP000H6PLF](#) [HM1F42TBP000H6LF](#) [HM1F43FDP000H6PLF](#) [HM1F43FDP270H6PLF](#) [HM1F43TAP000H6LF](#) [HM1F43TBP000H6LF](#) [HM1F44FDP000H6PLF](#) [HM1F44TAP000H6LF](#) [HM1F44TBP000H6LF](#) [HM1F51FDP000H6PLF](#) [HM1F51TBP000H6LF](#) [HM1F52FDP000H6PLF](#) [HM1F52FDP373H6PLF](#) [HM1F52TAP000H6LF](#) [HM1F53FDP000H6PLF](#) [HM1F53FDP372H6PLF](#) [HM1F53TAP000H6LF](#) [HM1F53TBP000H6LF](#) [HM1F54TAP000H6LF](#) [55443-101LF](#) [55444-101LF](#) [55445-101LF](#) [70228-102LF](#) [88962-102LF](#) [85838-109LF](#) [85853-190LF](#) [85854-176LF](#) [88922-136LF](#) [89006-176LF](#) [89075-113LF](#) [89075-195LF](#) [58355-163LF](#) [70298-163LF](#) [58355-101LF](#) [58355-107LF](#) [58355-127LF](#) [58355-141LF](#) [58355-151LF](#) [58399-1001LF](#) [63789-102LF](#) [85838-182LF](#) [85853-148LF](#) [88903-118LF](#) [89025-166LF](#) [74977-103011LF](#) [85826-121LF](#) [89006-121LF](#) [85853-137LF](#) [89009-111LF](#) [89008-111LF](#)