

# METRAL® VERTICAL HEADER AND RIGHT ANGLE RECEPTACLE

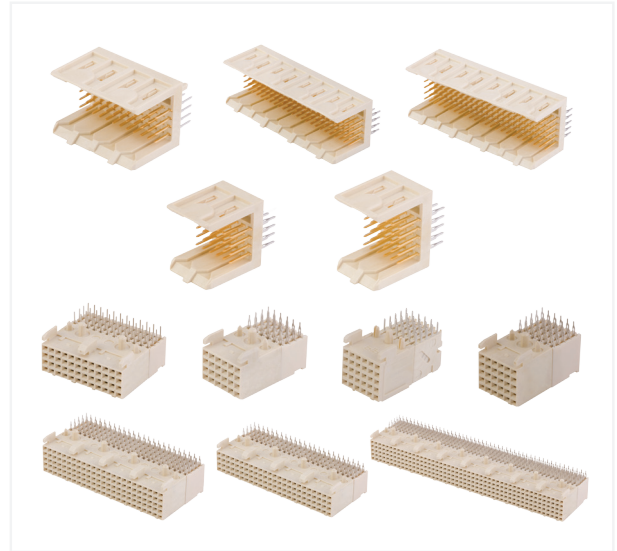
## OVERVIEW

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	-	-

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