

# METRAL® HDXS

## OVERVIEW

Metral® HDXS is a cable-to-board connector designed for high-end telecom applications including Telecom Access Equipments (ADSL/VDSL) and Base Stations.

Metral® HDXS is designed with minimum guaranteed clearance and creepage distances to comply to ANSI requirements of resistibility to overvoltages of up to 2500V. It is ideal for use in ADSL/VDSL as well as for harsh environments and other demanding telecom applications requiring high density cable-to-board interface. Metral® HDXS provides interconnection for differential pairs with very low crosstalk.

Designed in accordance with IEC 61076-4-104, Metral® HDXS meets the performance requirement as per Telcordia GR-1217-CORE. It is available in 6 row version of right angle headers with press-fit and pin-in-paste terminations and cable connectors. Cable connectors kits are field installable.



## FEATURES

- Multiple headers & cable connector mating configuration
- Insert Molded Leadframe Assembly (IMLA) based design for header
- Mini press-fit pins for header
- Flat rock housing design for header
- Enhanced Header Connector Footprint
- Staggered pinning
- Die cast shells for cable connector
- Dual IDC termination, Dual lip contact and individual wire retention for cable connector
- Shielded cable connection to front panel
- Recess provision in cable connector allows entry of conductive bosses on the front panel
- Selective loading option for header and receptacle

## BENEFITS

- Enables size flexibility
- Enhances Signal Integrity (SI) performance
- Improves board routing
- Simplifies press-fitting process
- Allows horizontal and vertical routing and minimum layer count
- Clearance and creepage distances complies to ANSI requirements of resistibility to overvoltages of up to 2500V
- Robust and ruggedized design
- Provides high reliability
- Ensures Electromagnetic Compatibility (EMC)
- Guarantees electrical discharge before signal contacts are mated
- Custom loading SI performance



## TECHNICAL INFORMATION

### MATERIALS

- Housing: High temperature thermoplastic; UL 94V-0 compliant
- Contacts: Copper Alloy
- Plating: Performance-based plating
- Covers: Die cast metal

### ELECTRICAL PERFORMANCE

- Contact Resistance: 55 mΩ max.
- Insulation Resistance: 5000 MΩ min.
- Current Rating: 0.8A (all contacts powered)

### ENVIRONMENTAL

- Operating Temperature: -55°C to +85°C

### SPECIFICATIONS

- Product Specification: GS-12-485
- Application Specification: GS-20-091

### MECHANICAL PERFORMANCE

- Mating Force: 36N max for 24 pair
- Unmating Force: 7.2N min for 24 pair

### APPROVALS AND CERTIFICATIONS

- Designed in accordance with IEC 61076-4-104
- Telcordia GR-1217-CORE standards

### TARGET MARKETS/APPLICATIONS

- Telecom

### PACKAGING

- Tube packaging for headers
- Cable connector as kits with components in tray packaging

## PART NUMBERS

| Rows | Board Header   |                 | Cable Connector |                 |
|------|----------------|-----------------|-----------------|-----------------|
|      | Part Number    | Number of Pairs | Part Number     | Number of Pairs |
| 6    | 10075388-101LF | 24 pair         | 10078794-101LF  | 24 pair         |
|      |                |                 | 10090081-101LF  | 48 pair         |
|      |                |                 | 10076192-101LF  | 72 pair         |

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