

DIN 41612 High-Temperature Headers and Receptacles

HARSH ENVIRONMENT CONNECTOR ENHANCED FOR INDUSTRIAL APPLICATIONS

DIN 41612 High Temperature (HT) connectors meet the fire safety standards required in Industrial (Transportation, Power) market. DIN is most suitable for hazardous and high-risk product platforms of fire safety applications required in the industrial market. The 2.54mm pitch HT connectors comply with the relevant standards like IEC 603-2, NFF 16-101/102 and EN45545-2. It comes with rear plug up option which offers extended mating applications via shroud on the rear side of PCB.

- High-temperature resin, suitable for Through Hole Reflow (THR) process
- Ideal for Railways, Power Generation, and Medical applications
- Meets DIN 41612, IEC 603-2, NFF 16-101/102, EN 45545-2 specifications
- Available in Style C, C/2 – right angle header and vertical receptacle and Style R – right angle receptacle



TARGET MARKETS



FEATURES

- 2.54mm and 5.08mm pitch
- High-temperature compatibility
- Selective loading pattern for contacts
- FMLB and LMEB contacts
- Available in various termination types
- NFF 16-101/102 and EN45545-2 certified
- Rear Plug-Up (RPU) capability
- A wide range of accessories available

BENEFITS

- Compatible to industry standards and hence inter-mateable & interchangeable
- Suitable for reflow soldering
- Improves creepage distance, facilitates custom loading
- Flexibility in grounding options
- Flexible PCB mounting options
- Suitable for railway applications
- Promotes extended mating applications via shrouds on the rear side of the PCB
- Enhances connector suitability and flexibility

TECHNICAL INFORMATION

MATERIAL

- Insulator: High temperature thermoplastic
- Contact: Copper alloy (male/female contact)
- Plating: AU/GXT® over nickel (contact area),
matte tin over nickel (terminal area)

MECHANICAL PERFORMANCE

- Insertion Force: $\leq 0.94\text{N}$ per contact
- Extraction force: $\geq 0.15\text{N}$ per contact

ELECTRICAL PERFORMANCE

- Current Rating at 20°C: 1.50A
- Current Rating: 2A max.
- Contact Resistance: $\leq 20\text{m}\Omega$
- Insulation Resistance: $\geq 10^6\text{M}\Omega$
- Test Voltage: 1000Vrms

ENVIRONMENTAL

- Operating Temperature: -55°C to $+125^\circ\text{C}$
- Performance levels as per IEC 603-2
- RoHS compliant according to the EU Directive 2011/65/EU

SPECIFICATIONS

- DIN 41612
- IEC 603-2

PACKAGING

- Tray

APPROVALS AND CERTIFICATIONS

- UL
- NFF 16-101/102
- EN45545-2

TARGET MARKETS/APPLICATIONS



Off road vehicles
Heavy duty loaders, conveyers
Locomotives
Onboard electronics
Signaling



Test and lab equipment
Process control
Robotics
Lighting & displays
Energy distribution



Imaging
Monitoring
Analyzers

PART NUMBERS

DIN IDC 3x32 CABLE CONNECTOR

| Description | Configuration | Rows Loaded | Part Numbers |
|-------------------------------------|----------------|-------------|--------------------|
| Style C Right Angle Header (STB) | 3 row / 96 pos | a, b, c | 86093967113x*5F1LF |
| | 2 row / 64 pos | a & c | 86094647113x*5F1LF |
| Style C Straight Receptacle (STB) | 3 row / 96 pos | a, b, c | 86093968114x*5F1LF |
| | 2 row / 64 pos | a & c | 86094648114x*5F1LF |
| Style C/2 Right Angle Header (STB) | 3 row / 48 pos | a, b, c | 86093487313x*5F1LF |
| | 2 row / 32 pos | a & c | 86094327313x*5F1LF |
| Style C/2 Straight Receptacle (STB) | 3 row / 48 pos | a, b, c | 86093488314x*5F1LF |
| | 2 row / 32 pos | a & c | 86094328314x*5F1LF |

Notes

x in part number denotes

B – High Temperature Housing (Natural)

T – High Temperature Housing (Natural) with Harpoon

Asterisk (*) in part number denotes Performance class:

6 – Class 1

5 – Class 2

4 – Class 3

Custom loading and other options available on request

*Note: In case of obsolescence, please contact Amphenol ICC for the replacement part numbers

BPLDINHIGHTEMP0319EA4

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