

DIN 41612 HIGH TEMPERATURE HEADERS & RECEPTACLES

EXTENDED RANGE FOR HIGH TEMPERATURE APPLICATIONS

DIN 41612 High Temperature (HT) series meets the fire safety standards required in Industrial and Transportation market. The 2.54mm pitch DIN HT connectors comply with the relevant standards like IEC 603-2, NFF 16-101/102 and EN45545-2.

- High temperature resin, suitable for THR process
- High reliability
- Flexibility in grounding and termination options
- Ideal for Industrial & Instrumentation segment: Railways & Medical
- DIN 41612, IEC 603-2, NFF 16-101/102, EN 45545-2
- Available in Style C & C/2- right angle header, vertical receptacle



FEATURES

- 2.54mm and 5.08mm pitch
- High temperature compatibility
- Selective contact loading option
- FMLB and LMEB contacts
- Various termination types available
- NFF 16-101/102 and EN45545-2 certified
- Rear plug up option
- Wide range of accessories available
- Adequate spacing for routing PCB trace
- Facilitates custom loading
- Reliability and no arcing damage on contact resting position
- Grounding option
- Flexible PCB mounting options
- Suitable for railway applications
- Extended mating applications via shroud on rear side of PCB
- Enhances connector suitability and flexibility

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TECHNICAL INFORMATION

MATERIAL

- Insulator: High Temperature Thermoplastic Polyester, UL94V-0, Natural
- Contact: Copper Alloy (Male/Female Contact)
- Plating: AU/GXT® over Nickel (Contact area), Matte Tin over Nickel (Terminal area)

ELECTRICAL PERFORMANCE

- Current Rating at 20°C: 1.5A
- Current Rating: 2A max.
- Contact Resistance: ≤ 20mΩ
- Insulation Resistance: ≥ 10⁶MΩ
- Test Voltage: 1000Vrms

MECHANICAL PERFORMANCE

- Insertion Force: ≤ 0.94N per contact
- Extraction force: ≥ 0.15N per contact

ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C
- Performance levels as per IEC 603-2
- RoHS compliant according to the EU Directive 2011/65/EU

PART NUMBERS

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 Right Angle Header (STB)	3 row / 48 pos	a, b, c	86093487313x*5F1LF
	2 row / 32 pos	a & c	86094327313x*5F1LF
Style C 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.

APPROVAL & CERTIFICATION

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

SPECIFICATIONS

- DIN 41612
- IEC603-2

PACKAGING

- Tray

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

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Disclaimer

Please note that the above information is subject to change without notice.