

# DIN 41612 High Temperature (HT) Series Headers & Receptacles

## EXTENDED RANGE FOR HIGH TEMPERATURE APPLICATIONS

DIN 41612 High Temperature (HT) connectors meets the fire safety standards required in Industrial and Transportation market. The 2.54mm pitch 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

## BENEFITS

- 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

# DIN 41612 High Temperature (HT) Series Headers & Receptacles

## 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:  $\leq 20m\Omega$
- Insulation Resistance:  $\geq 10^6M\Omega$
- Test Voltage: 1000Vrms

### MECHANICAL PERFORMANCE

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

### 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

## 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/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.

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#### Disclaimer

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