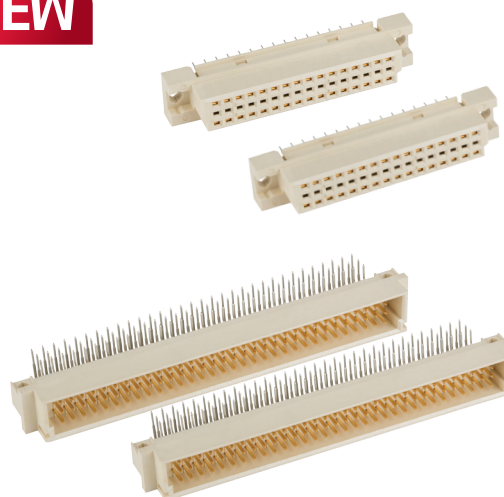


# DIN 41612 HIGH TEMPERATURE HEADERS & RECEPTACLES

## 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

**NEW**


### TARGET MARKETS



### FEATURES

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

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

### MECHANICAL PERFORMANCE

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

BPLDINHIGHTEMP016EA4

#### Disclaimer

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

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