

# Product Data Sheet

DIN 41612 Female 90°, type R/2,  
Part No. 116-90054TH

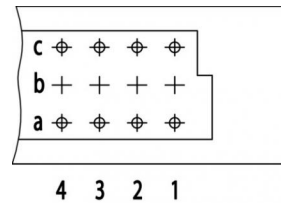
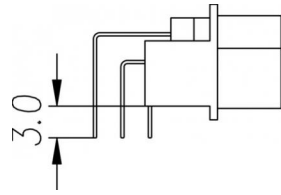


Illustration similar



Perpendicular



Horizontal



Through Hole



Rugged

- Termination length 3 mm
- 32 contacts
- THTR
- performance level 2



» to product on [www.ept.de](http://www.ept.de)



» to product group DIN 41612

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## Technical Specifications

### Basics

Specification	IEC 60603-2 (DIN 41612)
Performance Level	2
No. of Contacts	32
Termination Technology	THTR
Termination Length	3 mm
Operating Temperature Range	-55°C to +125°C

### Material

Insulator Material	PA glass filled UL 94 V-0
Contact Material	Copper alloy

### Mechanical

Pitch	2.54 mm
Mating Force	< 30 N
Separating Force per Pin	> 0.15 N
Durability	400 mating cycles

### Electrical

Operational Current	1.5 A
Contact Resistance	<20 mΩ
Clearance and Creepage	1.2 mm
Insulation Resistance	> 10 <sup>6</sup> MΩ
Test Voltage	1000 V

### Processing

Soldering Temperature	260°C per J-STD-020
MSL	1

### Approval / Compliance

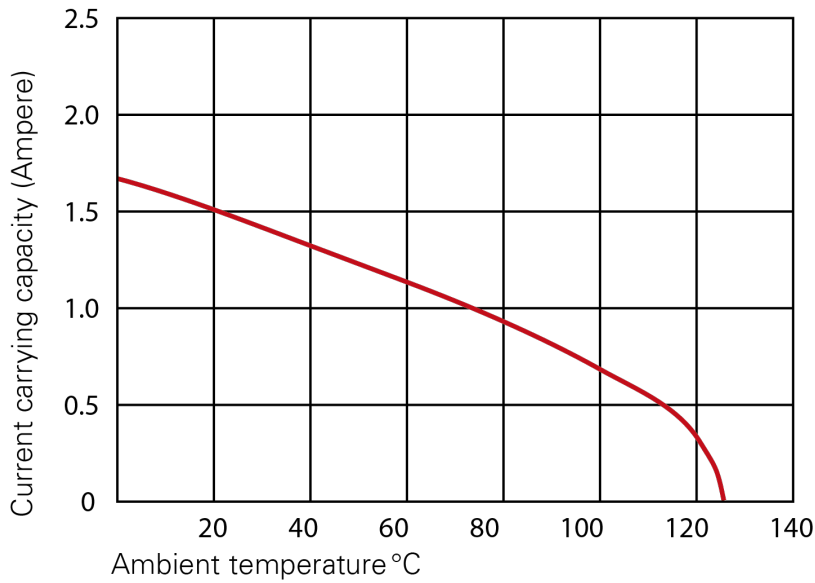
UL file	E130314
Environment	RoHS compliant

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## Derating Diagram



### Type B, Q, C, R

20 °C	1.5 A
70 °C	1.1 A
100 °C	0.7 A

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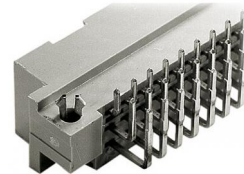
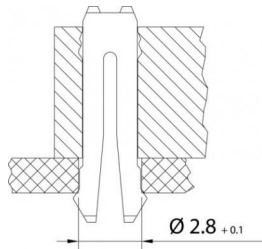
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## Options

Board Lock 90°

Suitable for connectors with type B, C, D, E, F, G male connectors and R female connectors



Type of Insertion	Forces			PCB Thickness	Part Number
	$F_m$	not soldered $F_h$	soldered $F_h$		
Locked	< 30 N	> 10 N	> 20 N	≤ 1.6 mm	116-90054THC1
Under Tension	< 30 N	> 7.5 N	> 20 N	> 1.6 mm	

## Modifications

Available on request

- Contact arrangement
- Performance levels I + III or customer-specific
- Special contact length

## Drawings

Component data for this product you can request through [sales@ept.de](mailto:sales@ept.de)