

# Product Data Sheet

DIN 41612 90° Male, type C/2,  
Part No. 103-90066

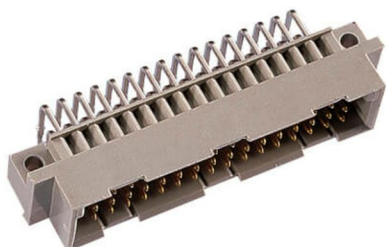
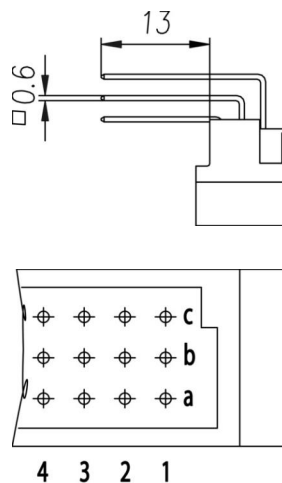


Illustration similar



Perpendicular



Through Hole



Rugged

- tail length 13 mm
- number of positions: 48
- solder termination
- 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             | 48                      |
| Termination Technology      | solder termination      |
| Termination Length          | 13 mm                   |
| Operating Temperature Range | -55°C to +125°C         |

### Material

|                               |                                       |
|-------------------------------|---------------------------------------|
| Insulator Material            | glass-fiber reinforced PBT, UL 94 V-0 |
| CTI value<br><i>IEC 60112</i> | 200                                   |
| Contact Material              | copper alloy                          |

### Mechanical

|                          |                   |
|--------------------------|-------------------|
| Pitch                    | 2.54 mm           |
| Mating Force             | 45 N              |
| Separating Force per Pin | > 0.15 N          |
| Durability               | 400 mating cycles |

### Electrical

|                        |                      |
|------------------------|----------------------|
| Operational Current    | 2.6 A                |
| Test Voltage           | 1000 V               |
| Contact Resistance     | 20 mΩ                |
| Clearance and Creepage | ≥ 1.2 mm             |
| Insulation Resistance  | > 10 <sup>6</sup> MΩ |

### Processing

|                       |             |
|-----------------------|-------------|
| Soldering Temperature | up to 260°C |
|-----------------------|-------------|

### Approval / Compliance

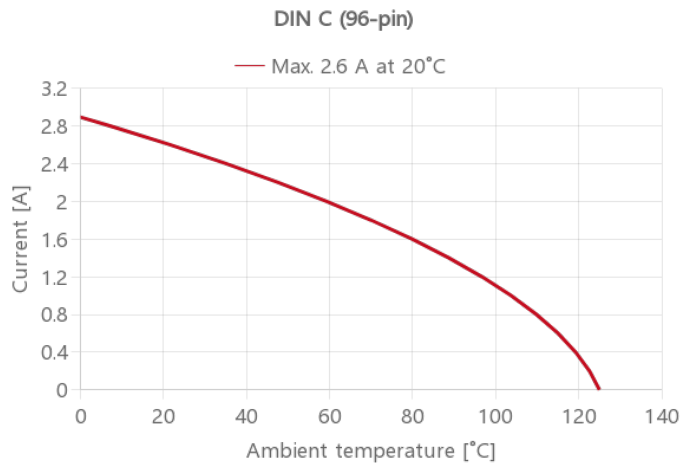
|             |                |
|-------------|----------------|
| UL file     | E130314        |
| Environment | RoHS compliant |

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## Derating Diagram



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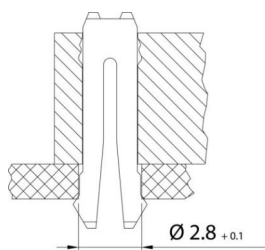
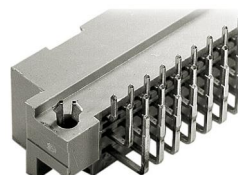
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## Options

### 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 <sub>m</sub> | not soldered F <sub>h</sub> | soldered F <sub>h</sub> |               |             |
| Locked            | < 30 N         | > 10 N                      | > 20 N                  | ≤ 1.6 mm      | 103-90066C1 |
| Under Tension     | < 30 N         | > 7.5 N                     | > 20 N                  | > 1.6 mm      |             |

## Modifications

Available on request

- First mate, last-mate contacts
- custom loading
- Grade I + III or custom
- Custom length

## Accessories

» DIN 41612 coding pliers  
Part Number 894-301

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## Drawings

Component data in 2D and 3D format you can download here:

[» PDF](#)