

# Product Data Sheet

DIN 41612 Female straight, type F,  
Part No. 110-40015

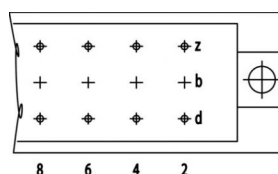
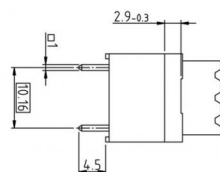
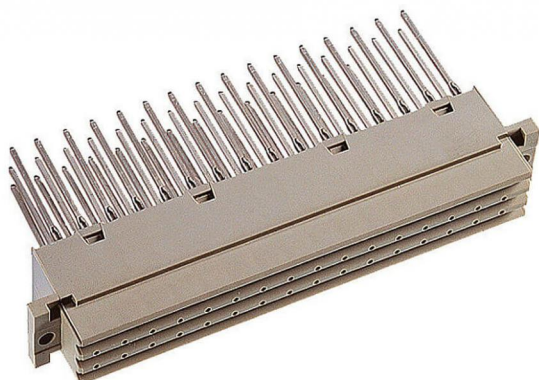


Illustration similar



Parallel



Perpendicular



Through Hole



Power



Rugged

- Termination length 4.5 mm
- Termination 1x1 mm
- 32 contacts
- solder
- 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      | solder                  |
| Termination Length          | 4.5 mm                  |
| Board-to-Board Distance     | 34.1 mm                 |
| Operating Temperature Range | -55°C to +125°C         |

### Material

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

### Mechanical

|                          |                   |
|--------------------------|-------------------|
| Pitch                    | 5.08 x 3.81 mm    |
| Mating Force             | < 50 N            |
| Separating Force per Pin | > 0.2 N           |
| Durability               | 400 mating cycles |

### Electrical

|                        |                            |
|------------------------|----------------------------|
| Operational Current    | 5.6 A                      |
| Contact Resistance     | < 15 mΩ                    |
| Clearance and Creepage | cr: ≥ 3.0 mm, cl: ≥ 1.6 mm |
| Insulation Resistance  | > 10 <sup>6</sup> MΩ       |
| Test Voltage           | 1550 V                     |

### Processing

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

### Approval / Compliance

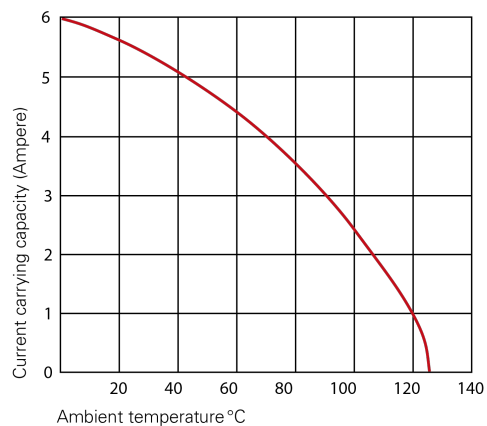
|             |                |
|-------------|----------------|
| UL file     | E130314        |
| Environment | RoHS compliant |

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## Derating Diagram



### Type D, E, F, G

|        |       |
|--------|-------|
| 20 °C  | 5.6 A |
| 70 °C  | 4.0 A |
| 100 °C | 2.5 A |

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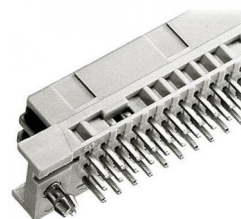
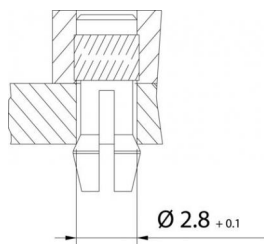
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### Options

#### Board Lock

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



|                   | Forces |                    |                | Part Number | PCB Thickness |
|-------------------|--------|--------------------|----------------|-------------|---------------|
| Type of Insertion | $F_m$  | not soldered $F_h$ | soldered $F_h$ | 110-40015C1 | 1.6 mm        |
| Locked            | < 20 N | > 10 N             | > 25 N         | 110-40015C2 | 2.4 mm        |
| Under Tension     | < 20 N | > 5 N              | > 25 N         | 110-40015C3 | 3.6 mm        |

### Modifications

Available on request

- Without flange
- Special contact length
- Performance levels I + III or customer-specific
- Contact arrangement

### Accessories

» DIN 41612 Coding type D, E, F and G  
Part Number 106-10001

### Drawings

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

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## Drawings

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

[» PDF](#)

[» 3D IGES](#)

[» 3D STEP](#)

[» 3D PDF](#)