Pushing Performance

# DIN-Power universal adapter

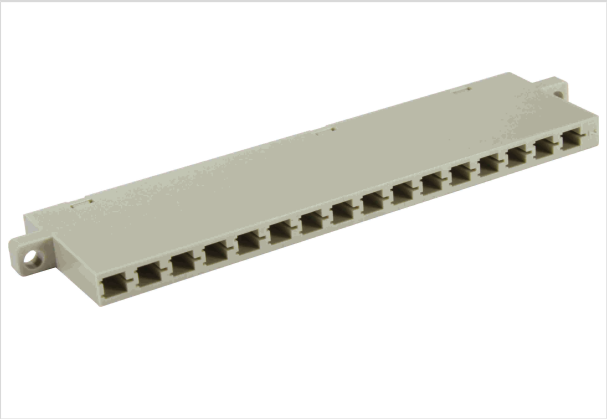


Image is for illustration purposes only. Please refer to product description.

| | |
|---|---|
| Part number | 09 06 016 3301 |
| Specification | DIN-Power universal adapter |
| HARTING eCatalogue | https://b2b.harting.com/09060163301 |

## Identification

| | |
|---|---|
| Category | Connectors |
| Series | DIN 41612 |
| Identification | Type F |
| Element | Distributor |
| Features | lead-free |

## Version

| | |
|---|---|
| Termination method | Crimp termination |
| Connection type | Cable to cable |
| PCB fixing | With fixing flange |
| Details | Please order crimp contacts separately. |

## Technical characteristics

| | |
|---|---|
| Contact rows | 1 |
| Contact spacing (mating side) | 5.08 mm |
| Rated current | Rated current measured at 20 °C, see derating curve for details |
| Clearance distance | ≥1.6 mm |
| Creepage distance | ≥3 mm |
| Insulation resistance | $>10^{12}$ Ω |
| Contact resistance | ≤15 mΩ |
| Limiting temperature | -55 ... +125 °C |
| Test voltage $U_{r.m.s.}$ | 1.55 kV (contact-contact)<br>2.5 kV (contact-ground) |


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## Technical characteristics

| | |
|---|---|
| Isolation group | IIIa (175 ≤ CTI < 400) |
| Hot plugging | No |

## Material properties

| | |
|---|---|
| Material (insert) | Thermoplastic resin, glass-fibre filled |
| Colour (insert) | RAL 7032 (pebble grey) |
| Material flammability class acc. to UL 94 | V-0 |
| RoHS | compliant |
| ELV status | compliant |
| China RoHS | e |
| REACH Annex XVII substances | No |
| REACH ANNEX XIV substances | No |
| REACH SVHC substances | No |

## Specifications and approvals

| | |
|---|---|
| Specifications | IEC 60603-2 |
| UL / CSA | UL 1977 ECBT2.E102079<br>CSA-C22.2 No. 182.3 ECBT8.E102079 |
| Railway classification | F1/I2 acc. to NFF 16-101/102 |

## Commercial data

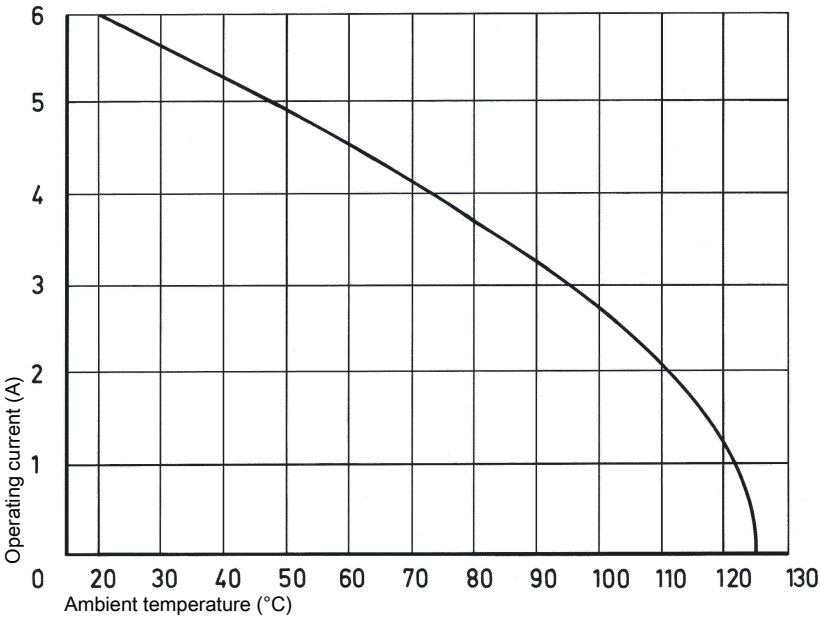
| | |
|---|---|
| Packaging size | 20 |
| Net weight | 9.89 g |
| Country of origin | Germany |
| European customs tariff number | 85389099 |
| eCl@ss | 27460201 PCB connector (board connector) |


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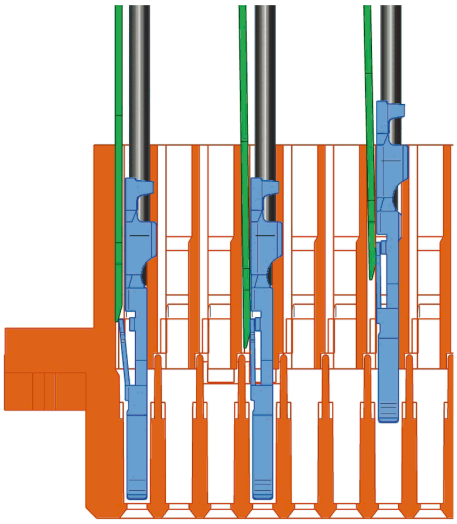
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## Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques acc. to IEC 60512-5-2




## Installation of crimp contacts

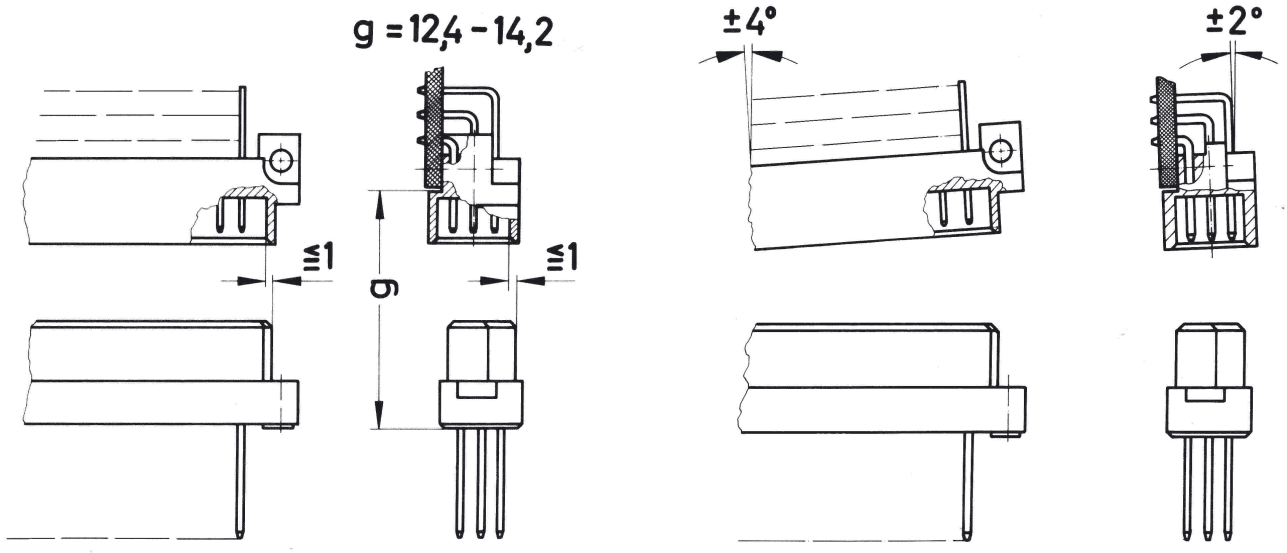


Fitting the crimp contacts:
After crimping the wires onto the contacts with the help of a crimping tool or an automatic crimping machine the contacts should be correctly oriented and inserted into the cavities of the connector moulding in the required configuration. They snap into position and are firmly held in place. A light pull on the wire assures the correct tensile strength of the contact. When using stranded wires with a gauge below 0.37 $mm^2$ an insertion tool is necessary.Insertion tool part number: 09 99 000 0100
Insertion tool part number: 09 99 000 0088
Removing the crimp contacts:
The removal tool is inserted into a slot on the side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damange to the contact / wire which can be repositioned / refitted as necessary. The drawing demonstrates the crimp removal procedure (max. 5x).
Removal tool part number: 09 99 000 0087


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Mating conditions




To ensure reliable connections and prevent unnecessary damage, please refer to the application data diagrams.
These recommendations are set out in IEC 60603-2.
The connectors should not be coupled and decoupled under electrical load.


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