

DIN-Signal C096FL-7,7C1-2



Part number 09 03 296 6823

Specification DIN-Signal C096FL-7,7C1-2

HARTING eCatalogue https://harting.com/09032966823

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

Identification

| Category | Connectors |
|----------------------------|------------------|
| Series | DIN 41612 |
| Identification | Type C |
| Element | Female connector |
| Description of the contact | Straight |

Version

| Termination method | Solder lug termination |
|-----------------------|---|
| Connection type | PCB to cable |
| Number of contacts | 96 |
| Contact configuration | Rows a, b and c, positions 1, 2, , 31, 32 |
| Coding | Coding with loss of contacts |
| PCB fixing | With fixing flange |

Technical characteristics

| Contact rows | 3 |
|------------------------------------|---|
| Contact spacing (termination side) | 2.54 mm |
| Contact spacing (mating side) | 2.54 mm |
| Rated current | 2 A |
| Rated current | Rated current measured at 20 °C, see derating curve for details |
| Clearance distance | ≥1.2 mm |
| Creepage distance | ≥1.2 mm |
| Insulation resistance | >10 ¹² Ω |

Page 1 / 4 | Creation date 2025-05-08 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application.

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Technical characteristics

| Contact resistance | ≤20 mΩ |
|----------------------------------|--|
| Limiting temperature | -55 +125 °C |
| Insertion force | ≤90 N |
| Withdrawal force | ≤60 N |
| Performance level | 2 acc. to IEC 60603-2 |
| Mating cycles | ≥400 |
| Test voltage U _{r.m.s.} | 1 kV (contact-contact) 1.55 kV (contact-ground) |
| 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 (contacts) | Copper alloy |
| Surface (contacts) | Noble metal over Ni Mating side Sn over Ni Termination side |
| Material flammability class acc. to UL 94 | V-0 |
| RoHS | compliant |
| ELV status | compliant |
| | oon, p. sain. |
| China RoHS | е |
| China RoHS REACH Annex XVII substances | · |
| | е |
| REACH Annex XVII substances | e Not contained |
| REACH ANNEX XIV substances | e Not contained Not contained |

Specifications and approvals

| Specifications | IEC 60603-2 |
|------------------------|--|
| UL / CSA | UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079 |
| Railway classification | F4/I3 acc. to NFF 16-101/102 |

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Commercial data

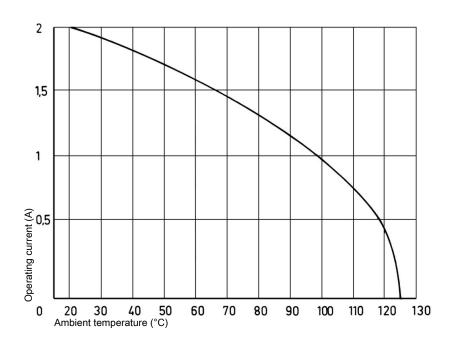
| Packaging size | 27 |
|--------------------------------|--|
| Net weight | 0.019 g |
| Country of origin | Czechia |
| European customs tariff number | 85366990 |
| GTIN | 5713140007185 |
| eCl@ss | 27460201 PCB connector (board connector) |
| ETIM | EC002637 |
| UNSPSC 24.0 | 39121415 |

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

Measuring and testing techniques acc. to IEC 60512-5-2



Coding with loss of contacts

To avoid cross-plugging of adjacent connectors a coding system is required.

The coding is achieved by means of a code pin which is inserted into the selected chamber of the female connector (the contact cavity must be filled with a female contact!).

The opposite male contact must be removed with the help of the specially designed tool. It's recommended to use a number of code pins in relation to the total number of contacts per connector: 3 pins for 64 contacts, 7 pins for 160 contacts

Coding pin 09 02 000 9901

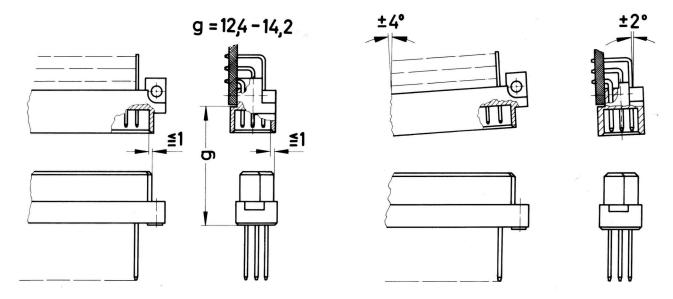
Removal tool for male contacts 09 99 000 0133

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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.