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DIN-Signal C096FW-13,0C1-2



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

Part number	09 03 296 6821
Specification	DIN-Signal C096FW-13,0C1-2
HARTING eCatalogue	https://harting.com/09032966821

Identification

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

Version

Termination method	Wrap termination
Connection type	PCB to cable
Number of contacts	96
Contact configuration	Rows a, b and c, positions 1, 2, ... , 31, 32
Termination length	13 mm
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

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Technical characteristics

Insulation resistance	$>10^{12}$ Ω
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 Ni Termination side
Material flammability class acc. to UL 94	V-0
RoHS	compliant
ELV status	compliant
China RoHS	e
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Not contained
PFAS	No
California Proposition 65 substances	Yes
California Proposition 65 substances	Nickel
Fire protection on railway vehicles	EN 45545-2 (2020-08) + A1 (2023-10)
Requirement set with Hazard Levels	R26

Specifications and approvals

Specifications	IEC 60603-2

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Specifications and approvals

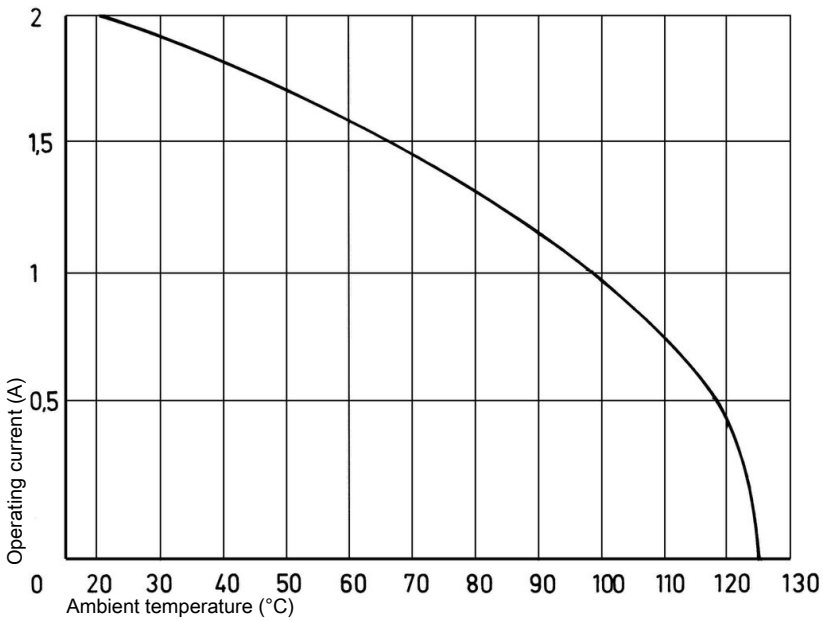
UL / CSA	UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079
Railway classification	F4/I3 acc. to NFF 16-101/102

Commercial data

Packaging size	20
Net weight	0.017 g
Country of origin	Finland
European customs tariff number	85366990
GTIN	5713140007178
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 60512-5-2



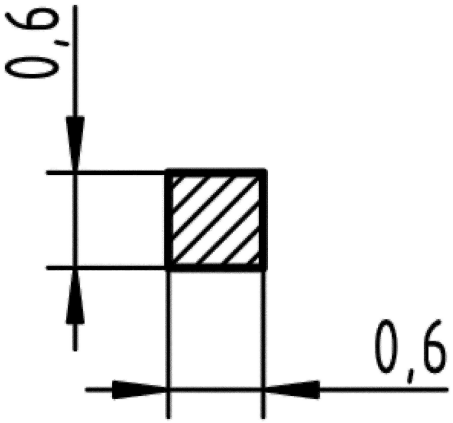
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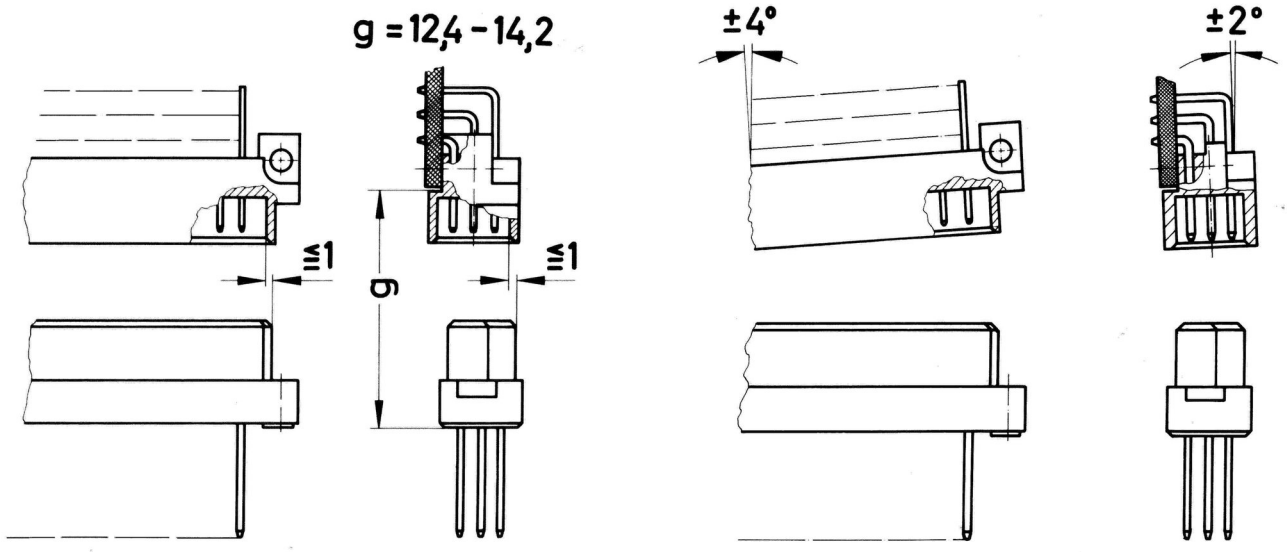
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Coding with loss of contacts
To avoid cross-plugging of adjacent connectors a coding system is required.
The coding is achieved by means of a code pin which is inserted into the selected chamber of the female connector (the contact cavity must be filled 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

Cross section of wire wrap termination



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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