

DIN-Signal C096FL-7,7C1-2



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

Part number	09 03 296 6823
Specification	DIN-Signal C096FL-7,7C1-2
HARTING eCatalogue	https://b2b.harting.com/09032966823

Identification

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

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



Pushing Performance

Technical characteristics

Insulation resistance	$>10^{12} \Omega$
Contact resistance	$\leq 20 \text{ m}\Omega$
Limiting temperature	-55 ... +125 °C
Insertion and withdrawal force	$\leq 90 \text{ N}$
Performance level	2 acc. to IEC 60603-2
Mating cycles	≥ 400
Test voltage $U_{r.m.s.}$	1 kV
Isolation group	IIIa ($175 \leq CTI < 400$)
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 Mating side Sn over Ni Termination side
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 CSA-C22.2 No. 182.3 ECBT8.E102079
Railway classification	F4/I3 acc. to NFF 16-101/102

Commercial data

Packaging size	27
Net weight	1 g
Country of origin	Czechia

Commercial data

European customs tariff number

85366990

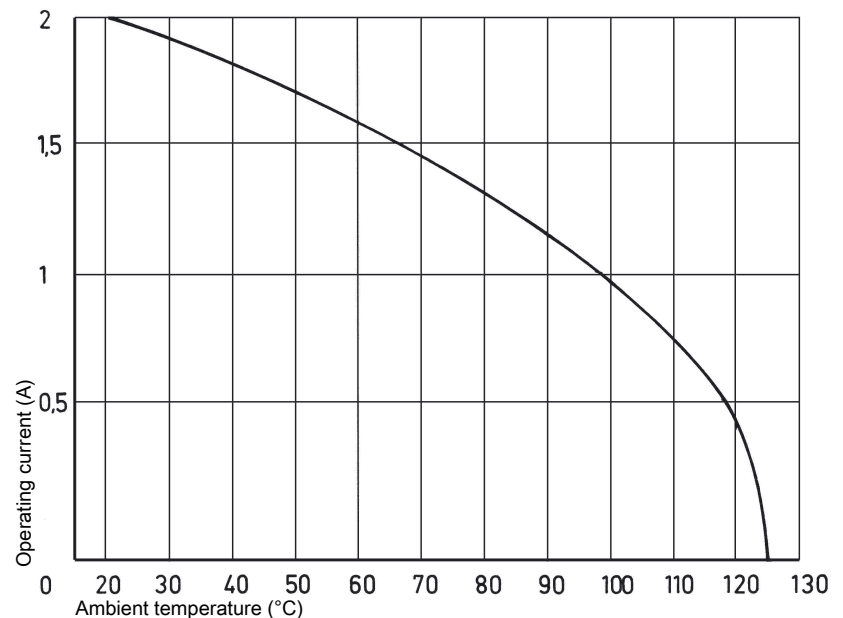
eCl@ss

27460201 PCB connector (board connector)

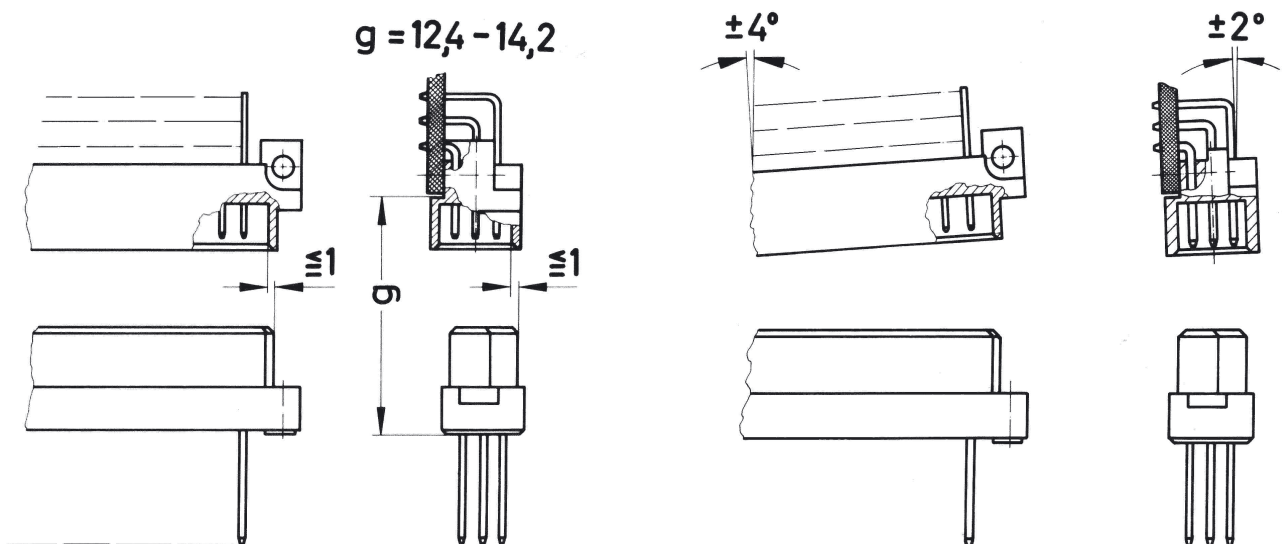
Current carrying capacity

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



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.