



Pushing Performance
Since 1945

DIN-Power E048FC-B-cod

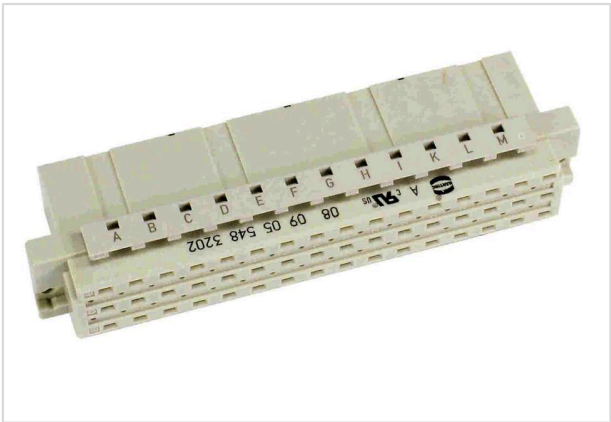


Image is for illustration purposes only. Please refer to product description.

Part number	09 05 548 3202
Specification	DIN-Power E048FC-B-cod
HARTING eCatalogue	https://b2b.harting.com/09055483202

Identification

Category	Connectors
Series	DIN 41612
Identification	Type E
Element	Female connector
Features	lead-free

Version

Termination method	Crimp termination
Connection type	PCB to cable
Number of contacts	48
Coding	Hole coding Coding with loss of contacts Side coding
PCB fixing	With fixing flange
Details	Please order crimp contacts separately.

Technical characteristics

Contact rows	3
Contact spacing (termination side)	5.08 mm 5.08 mm
Contact spacing (mating side)	5.08 mm 5.08 mm
Rated current	Rated current measured at 20 °C, see derating curve for details
Clearance distance	≥3 mm



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Technical characteristics

Creepage distance	≥3 mm
Insulation resistance	>10 ¹² Ω
Contact resistance	≤15 mΩ
Limiting temperature	-55 ... +125 °C
Insertion and withdrawal force	≤75 N
Test voltage U _{r.m.s.}	1.55 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 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

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	20
Net weight	25.48 g
Country of origin	Germany
European customs tariff number	85366990
GTIN	5713140009257
ETIM	EC002637

Commercial data

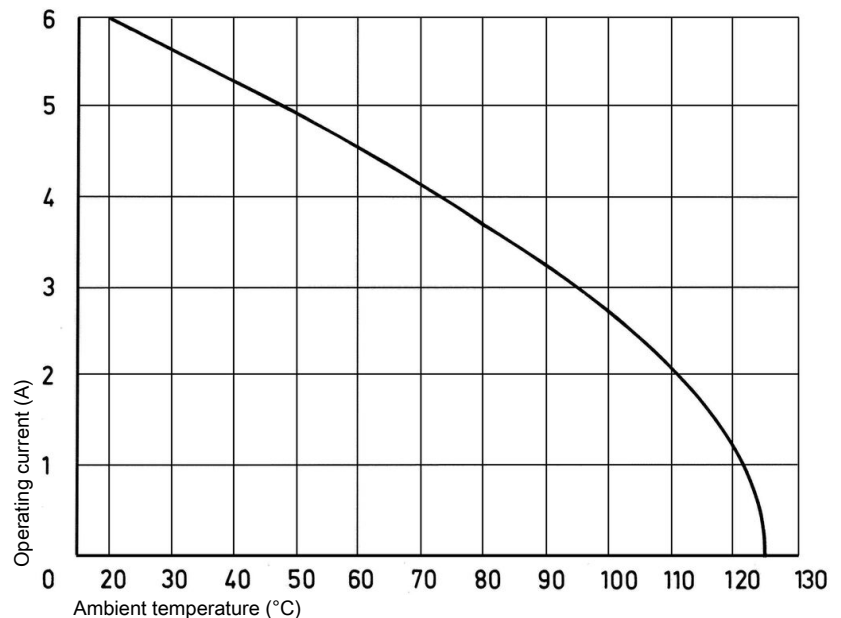
eCl@ss

27460201 PCB connector (board connector)

Current carrying capacity

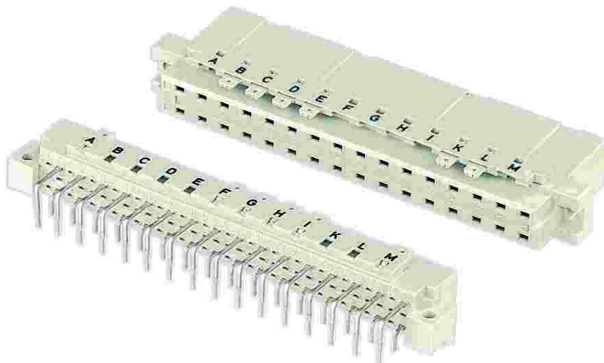
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the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

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



Side coding

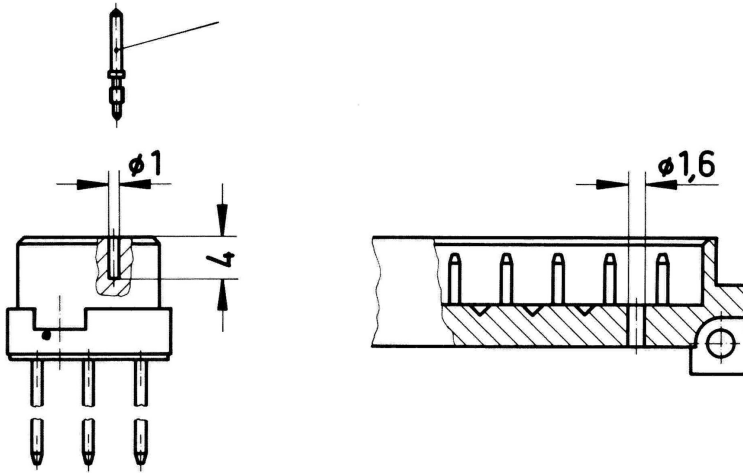
(without loss of contact)



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

This coding system is an integral part of both male and female connectors. A comb with 12 coding pins, which is supplied under part number 09 02 000 9928, allows over 900 coding variations. The pins are to be locked into the male and female connectors.

Hole coding (without loss of contact)



To avoid cross-plugging of adjacent connectors a coding system is required.
Drill out the male connector at pre-centered point according to the sketch. Use the setting tool 09 99 000 0103 to insert the coding pin 09 06 000 9950 into the existing hole in the female connector.

Coding with loss of contacts

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

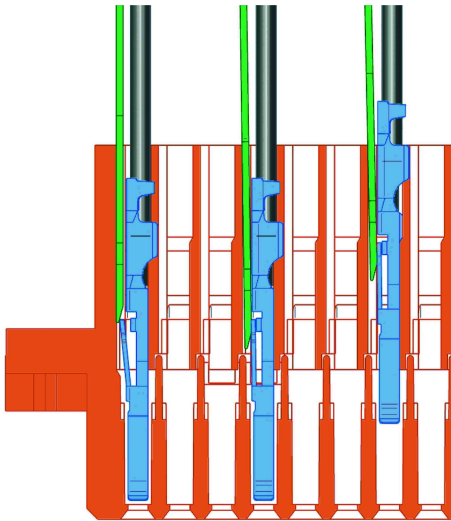
The coding is achieved by means of a code pin which is inserted into the selected chamber of the female connector (the contact cavity must be filled with a female contact!).

The opposite male contact must be removed with the help of the specially designed tool. It's recommended to use at least 3 pins.

Coding pin 09 04 000 9908

Removal tool for male contacts 09 99 000 0038

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

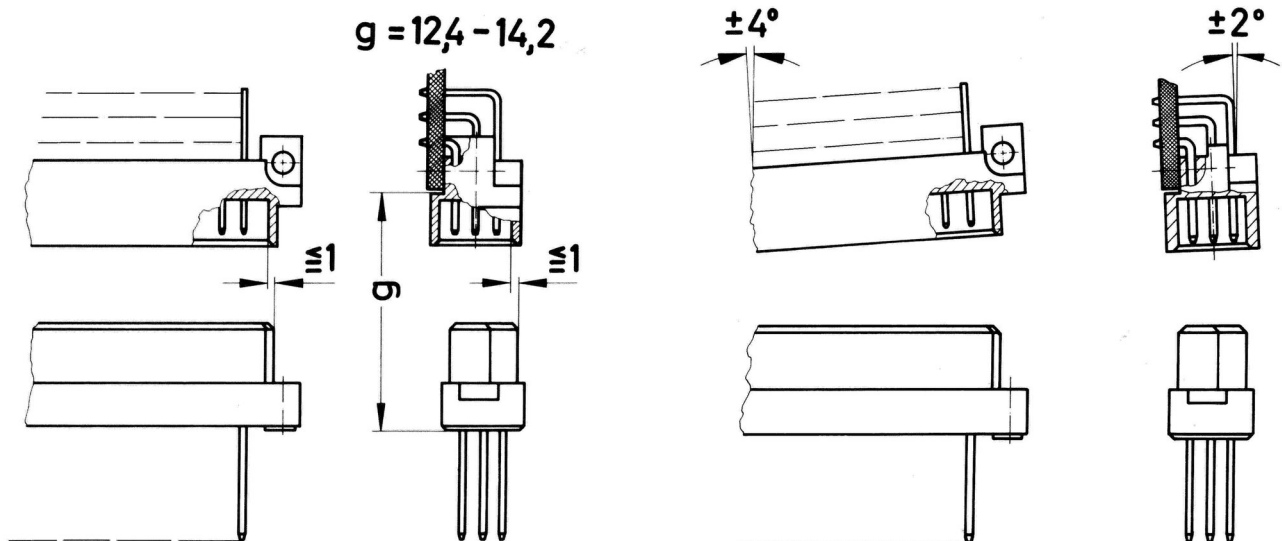
Insertion tool part number: 09 99 000 0088

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 damage 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

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.