

DIN-Power Flow032FS-3,7C1-2

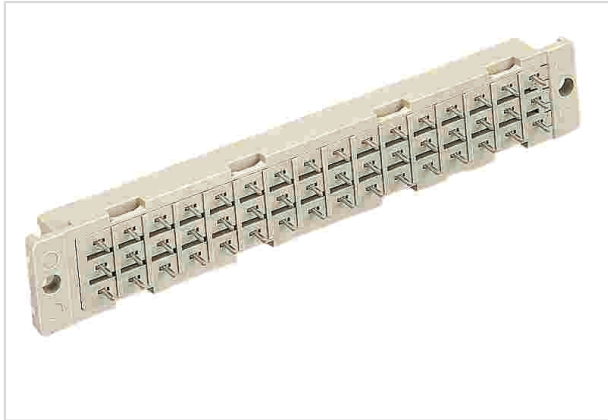


Image is for illustration purposes only. Please refer to product description.

Part number	09 06 232 6833
Specification	DIN-Power Flow032FS-3,7C1-2
HARTING eCatalogue	https://b2b.harting.com/09062326833

Identification

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

Version

Termination method	Wave soldering termination
Connection type	Motherboard to daughtercard
	Mezzanine
	PCB to cable
Number of contacts	32
Contact configuration	Rows z and b, positions 2, 4, ... , 30, 32
Termination length	3.7 mm
Coding	Hole coding
	Coding with loss of contacts
	Shroud coding
PCB fixing	With fixing flange

Technical characteristics

Contact rows	3
Contact spacing (termination side)	3.81 mm
	5.08 mm



Pushing Performance

Technical characteristics

Contact spacing (mating side)	3.81 mm
	5.08 mm
Rated current	6 A
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
Insertion and withdrawal force	≤50 N
Performance level	2
	acc. to IEC 60603-2
Mating cycles	≥400
Test voltage U _{r.m.s.}	1.55 kV (contact-contact)
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
China RoHS	e
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Not contained
California Proposition 65 substances	Yes
California Proposition 65 substances	Antimony trioxide

Specifications and approvals

Specifications	IEC 60603-2
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Pushing Performance

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

12.58 g

Country of origin

Romania

European customs tariff number

85366990

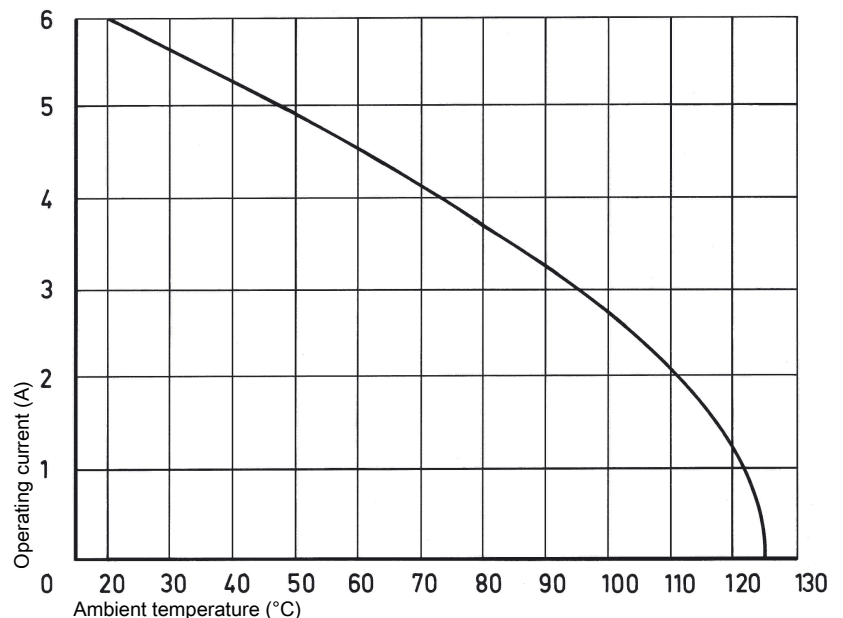
eCl@ss

27460201 PCB connector (board connector)

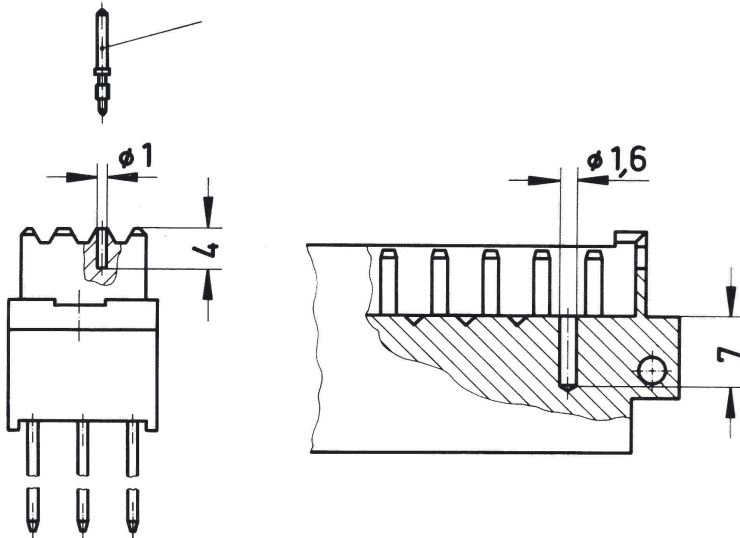
Current carrying capacity

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

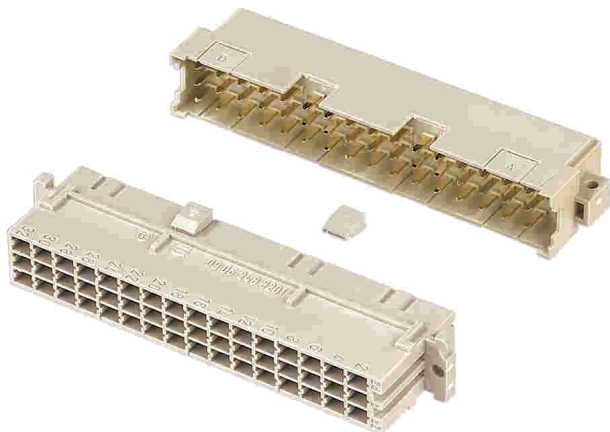


Hole coding (without loss of contact)



To avoid cross-plugging of adjacent connectors a coding system is required. With the aid of the marked indents between the contact rows of the male connector a hole has to be drilled at the desired position (also see drawing). The code pin can then be inserted into the corresponding cavity of the female connector by the means of the insertion tool.

Shroud coding (without loss of contact)



To avoid cross-plugging of adjacent connectors a coding system is required. Insert the code key 09 06 001 9919 into one of the keyways of the female connector as shown in the drawing. Break out the corresponding area of the male shroud. Connectors coded this way can only be applied in a minimum rack spacing of 20.32 mm.

Coding with loss of contacts

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

Coding pin 09 04 000 9908

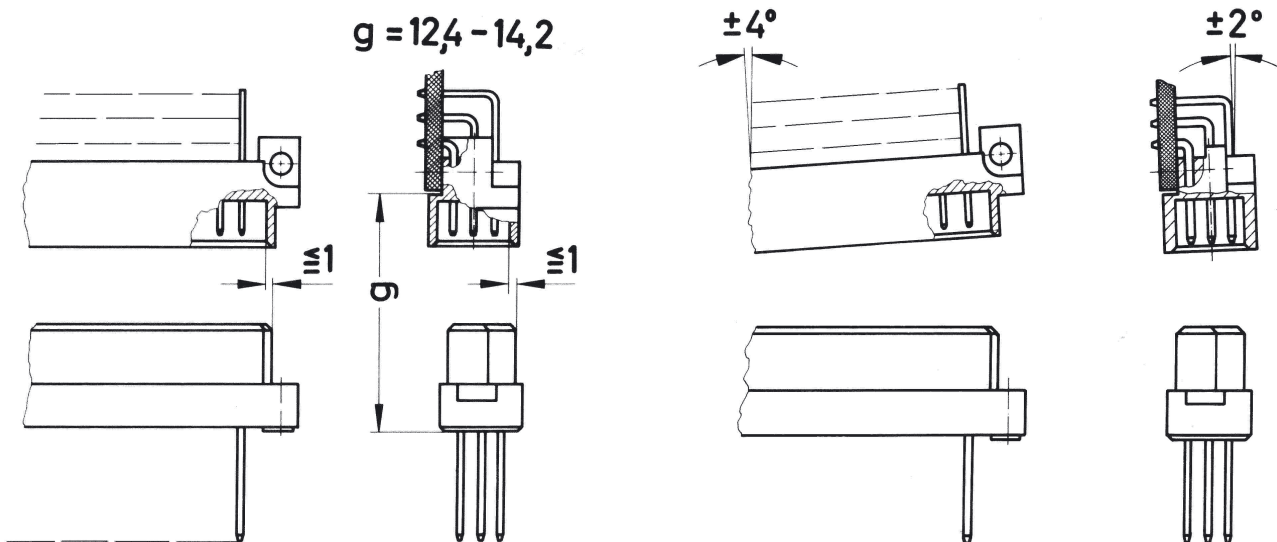
Removal tool for male contacts 09 99 000 0038

Soldering instructions

The connectors should be protected when being soldered. Otherwise, they might become contaminated as a result of soldering operations or deformed as a result of overheating.

- 1) For prototypes and short runs protect the connectors with an industrial adhesive tape, e.g. Tesaband 4331 (www.tesa.de). Cover the underside of the connector moulding and the adjacent parts of the pcb as well as the open sides of the connector. This will prevent heat and gases of the soldering apparatus from damaging the connector. About 140 + 5 mm of the tape should suffice.
- 2) For large series a jig is recommended. Its protective cover with a fast action mechanical locking device shields the connectors from gas and heat generated by the soldering apparatus. As an additional protection a foil can be used for covering the parts that should not be soldered.

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.