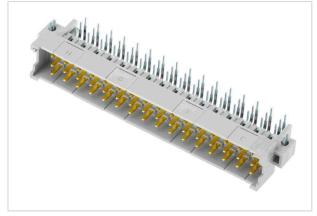


# DIN-Power F032MS-3,0C1-1-V1clip



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Part number	09 06 332 2931
Specification	DIN-Power F032MS-3,0C1-1-V1clip
HARTING eCatalogue	https://b2b.harting.com/09063322931

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

#### Identification

Category	Connectors
Series	DIN 41612
Identification	Туре F
Element	Male connector
Description of the contact	Angled
Features	lead-free
Version	
Termination method	Wave soldering termination
Connection type	Motherboard to daughtercard Extender card PCB to cable
Number of contacts	32
Contact configuration	Rows z and d, positions 2, 4, , 30, 32
Coding	Hole coding Shroud coding Coding with loss of contacts D20 coding
PCB fixing	With fixing flange With snap-in clip

### **Technical characteristics**

Contact rows	3
Contact spacing (termination side)	2.54 mm
	5.08 mm

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## **Technical characteristics**

**REACH Annex XVII substances** 

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 <sup>12</sup> Ω
Contact resistance	≤15 mΩ
Limiting temperature	-55 +125 °C
Insertion and withdrawal force	≤50 N
Performance level	1 acc. to IEC 60603-2
Mating cycles	≥500
Test voltage U <sub>r.m.s.</sub>	1.55 kV (contact-contact)
Isolation group	Illa (175 ≤ CTI < 400)
PCB thickness	1.6 mm ±0.2
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 XIV substances
 Not contained

 REACH SVHC substances
 Not contained

 California Proposition 65 substances
 Yes

 California Proposition 65 substances
 Antimony trioxide

 Lead
 Nickel

Not contained

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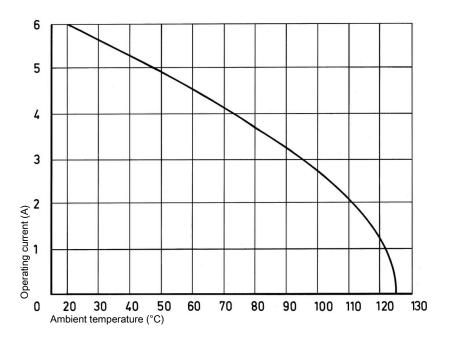


Material properties	
Requirement set with Hazard Levels	R26
Specifications and approvals	
Specifications	IEC 60603-2
UL / CSA	UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079
Railway classification	F4/I3 acc. to NFF 16-101/102
Commercial data	
Packaging size	20
Net weight	22.5 g
Country of origin	Germany
European customs tariff number	85366990
GTIN	5713140014107
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 (nonintermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

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

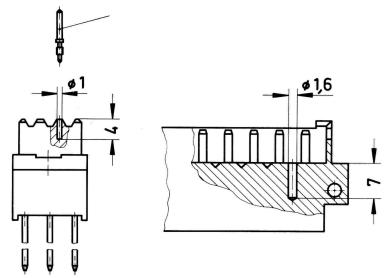


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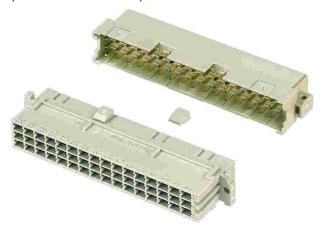
Hole coding (without loss of contact)



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.

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.

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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 at least 3 pins. Coding pin 09 04 000 9908 Removal tool for male contacts 09 99 000 0038

Soldering instructions

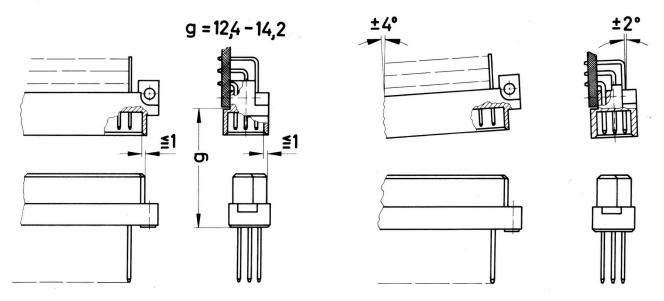
The connectors should be protected when being soldered. Otherwise, they might become contaminated as a result of soldering operations or deformed as a result of overheating.

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 devie 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.

3) For prototypes and short runs the protection described under point 1) can be replaced by a solder protection cap. This cap can be ordered under the part no. 09 02 000 9935.

### 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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