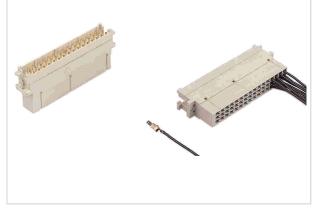


DIN-Power F48MW-C1-1



Part number	09 06 048 2906
Specification	DIN-Power F48MW-C1-1
HARTING eCatalogue	https://b2b.harting.com/09060482906

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

Identification

Category	Connectors
Series	DIN 41612
Identification	Туре F
Element	Male connector
Features	lead-free

Version

Termination method	Crimp termination
Connection type	PCB to cable
Number of contacts	48
Contact configuration	Rows z, d and b, positions 2, 4, , 30, 32
Coding	Hole coding Shroud coding Coding with loss of contacts
Coding PCB fixing	Shroud coding

Technical characteristics

Contact rows	3
Contact spacing (termination side)	5.08 mm 5.08 mm
Contact spacing (mating side)	3.81 mm 5.08 mm
Rated current	Rated current measured at 20 °C, see derating curve for details

Page 1 / 5 | Creation date 2021-10-01 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com



Technical characteristics

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	≤75 N
Test voltage U _{r.m.s.}	1.55 kV (contact-contact) 2.5 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	No
REACH ANNEX XIV substances	No
REACH SVHC substances	No
California Proposition 65 substances	Yes
California Proposition 65 substances	Nickel Lead

Specifications and approvals

Specifications	IEC 60603-2 (complementary)
UL / CSA	UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079
Railway classification	F1/I2 acc. to NFF 16-101/102
Commercial data	

Packaging size	10
Net weight	35.72 g
Country of origin	Romania

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Commercial data

European customs tariff number

eCl@ss

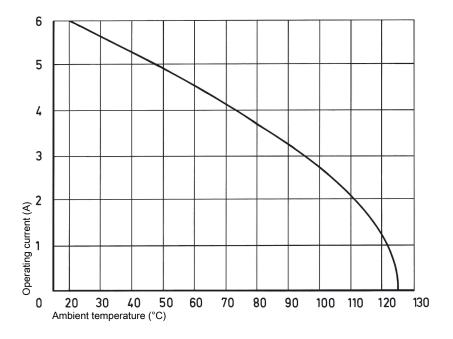
85366990

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.

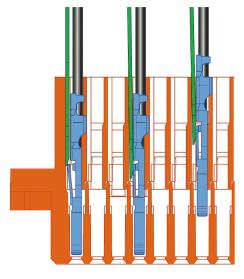
Measuring and testing techniques acc. to IEC 60512-5-2



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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 mm² 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:

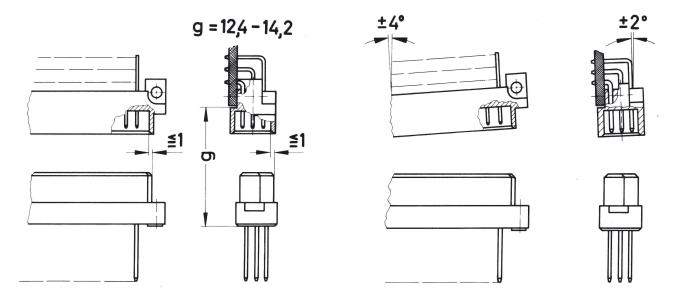
The removal tool is inserted into a slot on the side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damange to the contact / wire which can be repositioned / refitted as necessary. The drawing demonstrates the crimp removal procedure (max. 5x).

Removal tool part number: 09 99 000 0087

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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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