

DIN-Power MH21+5FS-3,2C1-2-cod



Part number	09 06 721 6883
Specification	DIN-Power MH21+5FS-3,2C1-2-cod
HARTING eCatalogue	https://b2b.harting.com/09067216883

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

Identification

Category	Connectors
Series	DIN 41612
Identification	Type MH 21+5
Element	Female connector
Description of the contact	Straight
Features	lead-free Rated current of special contacts: see data sheet of the selected contacts

Version

Termination method	Wave soldering termination
Connection type	Motherboard to daughtercard PCB to cable Cable to cable
Number of contacts	26
Number of signal contacts	21
Number of special contacts	5
Contact configuration	Rows z, b and d, positions 20, 22, 24, 26, 28, 30, 32
Termination length	3.2 mm
Coding	Flange coding Coding with loss of contacts Side coding
PCB fixing	With fixing flange



Technical characteristics

Contact spacing (termination side)	3.81 mm 5.08 mm
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	≤85 N
Performance level	2 acc. to IEC 60603-2
Mating cycles	≥400
Test voltage U _{r.m.s.}	1.55 kV
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	е
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



Material properties

Requirement set with Hazard Levels R26

Specifications and approvals

Specifications	IEC 60603-2 (complementary)
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

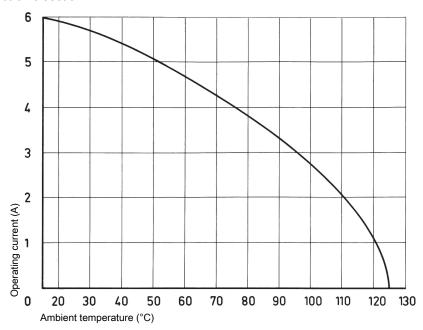
Packaging size	20
Net weight	12.9 g
Country of origin	Romania
European customs tariff number	85366990
GTIN	5713140014213
eCl@ss	27460201 PCB connector (board connector)

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

Electronic section



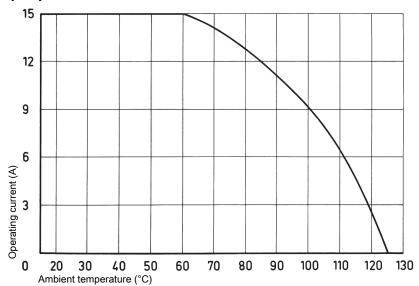


Current carrying capacity

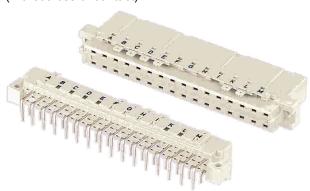
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Measuring and testing techniques acc. to IEC 60512-5-2

Heavy duty section



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.

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

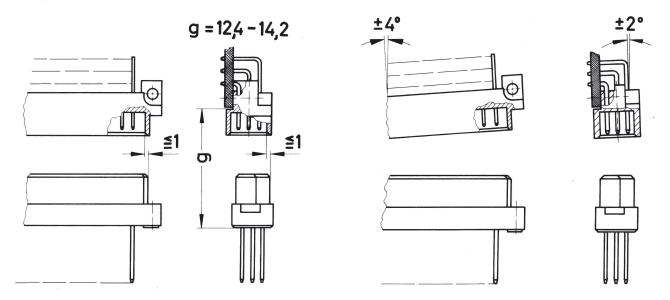


Soldering instructions

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.

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.