DIN power female connector

RoHS compliant

General information

Design	IEC 60603-2	type: H female low profile
No. of contacts	15	
Contact spacing	5,08 mm / 6,5 mm between the rows	
Test voltage	3100 V	
Contact resistance	max. 8mOhm	
Insulation resistance	min. 10^{12}Ohm	
Working current	15A at 20°C (see derating diagram)	
Temperature range	-55°C ... +125°C	
Termination technology	solder	
Clearance	min. 4,5 mm	
Creepage	min. 8,0 mm	
Insertion and withdrawal force	15-pole max. 90N	
Mating cycles	- PL1 acc. to IEC 60603-2 =>	500 mating cycles
	- PL2 acc. to IEC 60603-2 =>	400 mating cycles
	- PL3 acc. to IEC 60603-2 =>	50 mating cycles
UL file	E102079	
RoHS - compliant	Yes	
Leadfree	Yes	
Hot plugging	No	

Insulator material

Material	PBT (thermoplastics, glass fiber reinforcement 30%)
Colour	RAL 7032 (grey)
UL classification	UL 94-V0
Material group acc. to IEC 60664-1	IIIa (175 ≤ CTI < 400)
NFF classification	I3, F4

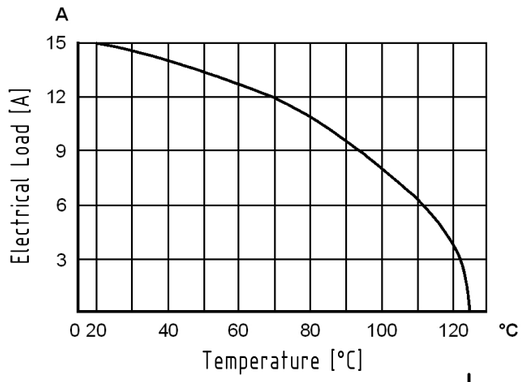
Contact material

Contact material	Copper alloy
Plating termination zone	Ag or Au
Plating contact zone	Ag or Au

Derating diagram acc. to IEC 60512-5 (Current carrying capacity)

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

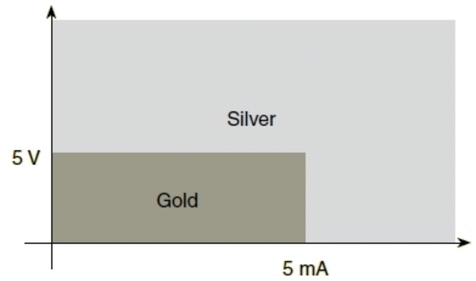
Control and test procedures according to DIN IEC 60512-5



Low currents and voltages

Type H standard contacts have a silver plated surface. This precious metal has excellent conductive properties. In the course of a contact's lifetime, the silver surface generates a black oxide layer due to its affinity to sulphur. This layer is smooth and very thin and is partly interrupted when the contacts are mated and unmated, thus guaranteeing very low contact resistances. In the case of very low currents or voltages small changes to the transmitted signal may be encountered.
In systems where such a change to the transmitted signal could lead to faulty functions and also in extremely aggressive environments, HARTING recommend the use of gold plated contacts.

Below is a table derived from actual experiences.



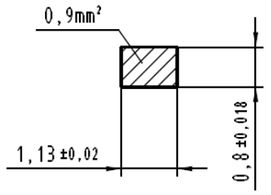
Soldering instructions

The connectors should be protected when being soldered in a dip, flow or film soldering baths. 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.

Cross section of solder pins



All Dimensions in mm
Original Size DIN A3

Scale	Free size tol.	Ref.
1:1		Sub. Ds 09 06 210 02 01 / EC01557 / 28.04.02011

Created by	Inspected by	Standardisation	Date	State
HAGEMEYERE	TADJE	HOFFMANN	2014-09-12	Final Release

Department EC PD - DE

HARTING Electronics GmbH
D-32339 Espelkamp

Title: DIN power female connector

Doc-Key / ECM-Nr.: 100580736/UGD/000/A 500000076069

Type	Number	Rev.	Page
DS	09062100201	A	1/1

A3

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DIN 41612 Connectors ***category:***

Click to view products by HARTING ***manufacturer:***

Other Similar products are found below :

004.767 608489050008049 691327-1 74670-0732 74680-0340 75880-0015 76453-0014 86093159ALF 9732967801 QLC260R 120X10019X 120X10089X 122A10249X 122A10669X 122A11089X 122A13089X 122A10089X 122A10129X 122A10349X 122A13359X 1377391-4 DIN-048CPC-SR1-MH 1393583-2 1393726-7 140X10129X 143-1913-000 143-1908-000 1484472-1 2110070-1 2110070-2 CBC20T00-008FDS5-0-1-002VR 172699-5036 2-1393557-4 2-1437084-2 CTJ720E01B-6141 394506 419-2080-402 V42254B2202C968 419-2086-201 419-2087-002 448657-1 448847-3 5-1393755-9 02990000004 054302 043556 09062483201750 0850033067 09031646555 09061486901840