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HARTING DIN Signal female connector RoHS compliant				Recommended configuration of plated through holes for press-in termination In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties – such as mechanical strength and coefficient of friction – we recommend the following configuration of PCB through holes. drilled hole Ø finished hole Ø plating (e.g. Sn) Cu min. 25 µm			
General information Design IEC 60603-2 types: B, 2B, 3B, C, 2C, 3C, M female No. of contacts max. 96 Contact spacing 2,54 mm Test voltage 1000V Contact resistance max. 20mOhm Insulation resistance min. 10¹⁰Ohm Working current 2A at 20°C (see derating diagram) 40 A for type M Temperature range -55°C ... +125°C -40°C ... +105°C (for press-in connectors) Termination technology press-in, solder pins Clearance & creepage distance min. 1,2 mm each Insertion and withdrawal force 16-pole max. 15N 20-pole max. 20N 30-pole max. 30N 32-pole max. 30N 48-pole max. 45N 64-pole max. 60N 96-pole max. 90N Mating cycles PL 1 acc. to IEC 60603-2 PL 2 acc. to IEC 60603-2 PL 3 acc. to IEC 60603-2 500 mating cycles 400 mating cycles 50 mating cycles UL file E102079 RoHS – compliant Yes Leadfree Yes Hot plugging No				Assembly instructions It is highly recommended to use HARTING press-in tools to ensure a reliable press-in process. Please refer to the catalogue for tools, machines and further information about the press-in process. 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.			
Insulator material Material PBT (thermoplastics, glass fiber reinforcement 30%) Color RAL 7032 (grey) UL classification UL 94-V0 Material group acc. IEC 60664-1 IIIa (175 < CTI < 400) NFF classification I3, F4				Cross section of solder terminations 0,3±0,01 0,75_{-0,07} 0,197 - 0,233 mm²			
Contact material Contact material Copper alloy Plating termination zone Sn over Ni for solder, Ni for press-in Plating contact zone I Au over PdNi over Ni (Au over Ni for PL3) Plating contact zone II (termination side) Au over PdNi over Ni (Au over Ni for PL3)				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 Electrical Load [A] Temperature [°C]			
HARTING All rights reserved Department EC PD - DE HARTING Electronics GmbH D-32339 Espelkamp Scale 1:1 Free size tol. Created by LEHNERT Inspected by ZWAHR Standardisation HOFFMANN Title DIN Signale female connector Type DS Number 09032100001 Ref. Sub. Date 2016-11-03 State Final Release Doc-Key / ECM-Nr. 100572187/UGD/001/B 500000111021 Rev. B Page 1/1							
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