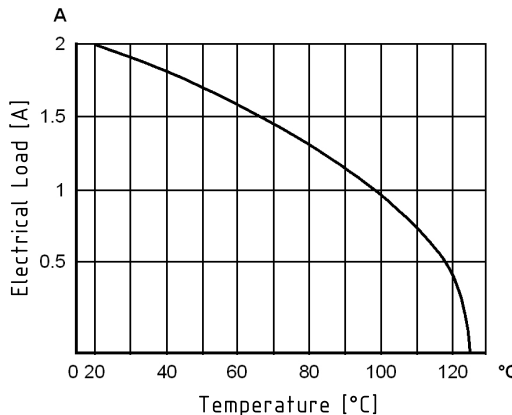
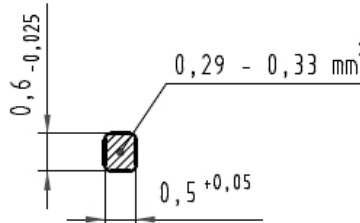


1	2	3	4	5	6	7	8
A				A			
HARTING				DIN signal male connector with special contacts			
RoHS compliant				UL			
General information							
Design				IEC 60603-2 types: M male			
No. of contacts				78+2, 60+4, 42+6, 24+8, 6+10			
Contact spacing				2,54 mm for signal contacts 7,62 mm for special contacts			
Test voltage				1000V			
Contact resistance				max. 20mOhm			
Insulation resistance				min. 10 ¹² Ohm			
Working current				2 A@20°C (see derating diagram) for signal contacts for special contacts refer to corresponding data sheet			
Temperature range				-55°C ... +125°C			
Termination technology				solder pins			
Clearance & creepage distance				min. 1,2 mm			
Insertion and withdrawal force				6pol. max. 6N 60pol. max. 57N 24pol. max. 23N 78pol. max. 74N 42pol. max. 40N			
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				Sn over Ni			
Plating contact zone				Au over PdNi over Ni			
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							
F				F			
1				2			
3				4			
5				6			
7				8			

Soldering instructions									
The connectors should be protected when being soldered in a dip, flow or film soldering bath. 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.									
(3) We recommend to align special contacts during soldering. A mated dummy connector of the counterpart can be used to align the contacts to avoid misalignment due to angular deviations.									
Cross section of solder pins									
									
 All rights reserved Department EC PD - DE				All Dimensions in mm Original Size DIN A3		Scale 1:1	Free size tol.	Ref.	
HARTING Electronics GmbH D-32339 Espelkamp				Created by TADJE		Inspected by ELLERMANN	Standardisation HOFFMANN	Date 2015-11-17	State Final Release
				Title DIN signal male connector with special contacts				Doc-Key / ECM-Nr. 100580373/UGD/000/B 500000097390	
				Type DS		Number 09031200202		Rev. B	Page 1/1

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