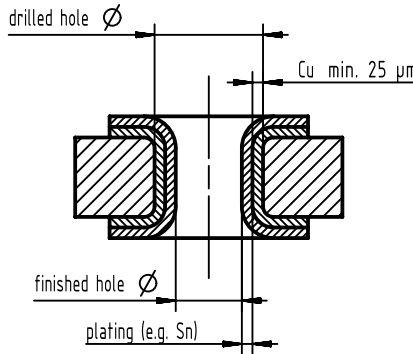
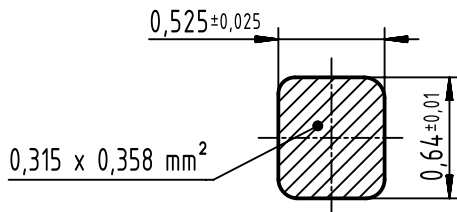
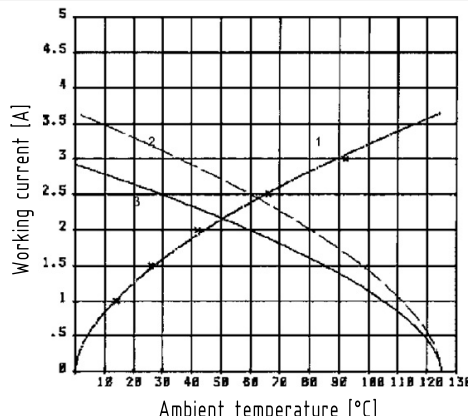


1	2	3	4	5	6	7	8
 SEK 18 male low profile solder and press-in  RoHS compliant				Recommended configuration of plated through holes for press-in termination In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties – such as mechanical strength and coefficient of friction – we recommend the following configuration of PCB through holes.  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. Packaging material (only for plastic tray) Material Polystyrol Color Yellow Standardization acc. to DIN EN / IEC 61340-5-1 and ANSI / ESD S541-2003 - Safe protection for electronic components against electrostatic charges Cross section of solder terminations 			
General information Design IEC 60603-13 No. of contacts 6,10,14,16,20,26,30,34,40,50,60,64 Contact spacing 2,54 mm x 2,54 mm Test voltage Ur.m.s 1 kV Working voltage 500 V for pollution degree 1 Working current acc. to IEC 60512-2 See derating diagram Contact resistance max. 20mOhm Insulation resistance min. 10⁹Ohm Temperature range -55°C ... +125°C (solder) -55°C ... +105°C (press-in) Termination technology solder, press-in Clearance & creepage distance min. 0,5 mm clearance min. 0,56 creepage Insertion and withdrawal forces 6-pole max. 12N for PL1-2 / 18N for PL3 ; 30-pole max. 60N for PL1-2 / 90N for PL3 10-pole max. 20N for PL1-2 / 30N for PL3 ; 34-poles max. 68N for PL1-2 / 102N for PL3 14-pole max. 28N for PL1-2 / 42 for PL3 ; 40-poles max. 80N for PL1-2 / 120N for PL3 16-pole max. 32N for PL1-2 / 48N for PL3 ; 50-poles max. 100N for PL1-2 / 150N for PL3 20-pole max. 40N for PL1-2 / 60N for PL3 ; 60-poles max. 120N for PL1-2 / 180N for PL3 26-pole max. 52N for PL1-2 / 78N for PL3 ; 64-poles max. 128N for PL1-2 / 192N for PL3 Mating cycles S4 surface treatment Au over PdNi (min. 0,76 µm) PL 1 acc. to IEC 60603-13 500 mating cycles 10 days gas test PL 2 acc. to IEC 60603-13 250 mating cycles 4 days gas test PL 3 acc. to IEC 60603-13 50 mating cycles No gas test UL file E 102079 RoHS – compliant Yes Leadfree Yes Hot plugging No				Insulator material Material PBT (thermoplastics, glass fiber reinforcement 30%) Color black (RAL 7001) or grey (RAL 7032) for solder grey (RAL 7053) for press-in UL classification UL94-V0 Material group acc. IEC 60664-1 IIIa (175 < CTI < 400) NF F 16-101 classification I3,F3 Contact material Contact material Copper alloy Plating termination zone Sn over Ni for solder, Ni for press-in Plating contact sliding side Au or Au over PdNi (according to performance level)			
Derating diagram acc to IEC 60512-2 (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, not 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. 1) Temperature rise 2) Derating 3) Derating curve at I max x 0.8(IEC 60512-2) 				 All rights reserved Department EC PD – DE HARTING Electronics GmbH D-32339 Espelkamp Scale 1:1 Free size tol. Created by STORCK Inspected by LEHNERT Standardisation HOFFMANN Date 2016-09-05 State Final Release Title SEK 18 male low profile solder and press-in Doc-Key / ECM-Nr. 100554984/UGD/001/F 500000107692 Type DS Number 09181100001 Rev. F Page 1/1			
1	2	3	4	5	6	7	8

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