| A SEK 18 male standard solder and wire-wrap Reference General information IEC 66603-13 No. of contacts 6, 10, 14, 16, 20, 24 (only for solder), 26, 30, 34, 40, 50, 60, 64 Contract spacing 2.54 mm x 2.54 mm IEC 66603-13 No. of contacts Insertion resistance mex. 254 mm IEC 60603-13 IEC 60603-13 Vorking voltage Ucm.s 1.kV Working voltage SOD V for pollution degree 1 Contract resistance mex. 20mbm Insulation resistance IEC 60602-2 Insulation resistance min. 100 hm Working voltage SOD V for pollution degree 1 Contract resistance min. 00 for PLI-2 SEE derating diagram IEEnepterature range Temperature range -55°C 75°C IEEnepterature range -56°C 75°C Temperature range -55°C 75°C IEEnepterature range -51°C 75°C Insertion and withdrawal forces 18-pole max. 20h for PL1-2 / 10h for PL3 34-pole max. 60h for PL1-2 / 90h for PL3 10-pole max. 20h for PL1-2 / 10h for PL3 34-pole max. 60h for PL1-2 / 10h for PL3 -04-pole max. 10h for PL1-2 / 10h for PL3 24-pole max. 20h for PL1-2 / 10h for PL3 64-pole max. 10h for PL1-2 / 10h for PL3 -04-pole max. 10h for PL1- | The connectors should be protected when being soldered in a dip, flow or fill result of soldering operations or deformed as a result of overheating. (1) For prototypes and short runs protect the connectors with an industrial Cover the underside of the connector moulding and the adjacent parts of the heat and gases of the soldering apparatus from damaging the connector. Abut (2) For large series a jig is recommended. Its protective cover with a fast action |
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| General information EC 60603-13 No. of contacts 6, 10, 14, 16, 20, 24 (only for solder), 26, 30, 34, 40, 50, 60, 64 Contact spacing 2,54 mm x 2,54 mm Test voltage Uruns 1 kV Working voltage 500 V for pollution degree 1 Contact resistance max. 20m0hm Insulation resistance min. 10*Dhm Working current act. to IEC 60512-2 See derating diagram Temperature range -55°C Termination technology solder, wire wrap Clearance & creepage distance min. 0,5 mm clearance, min. 0,56 creepage 6-pole max. 12N for PL1-2 / 108 for PL3 30-pole max. 60N for PL1-2 / 102N for PL3 14-pole max. 28 M for PL1-2 / 2 for PL3 40-pole max. 60N for PL1-2 / 102N for PL3 14-pole max. 28 M for PL1-2 / 2 for PL3 40-pole max. 100N for PL3 20-pole max. 48 M for PL1-2 / 12N for PL3 50-pole max. 12N for PL1-2 / 12N for PL3 12-pole max. 48 M for PL1-2 / 12N for PL3 60-pole max. 12N for PL1-2 / 12N for PL3 20-pole max. 48 M for PL1-2 / 12N for PL3 60-pole max. 12N for PL1-2 / 12N for PL3 14-pole max. 48 M for PL1-2 / 12N for PL3 60-pole max. 12N for PL1-2 / 12N for PL3 20-pole max. 52N for PL1-2 / | The connectors should be protected when being soldered in a dip, flow or fil result of soldering operations or deformed as a result of overheating. (1) For prototypes and short runs protect the connectors with an industrial Cover the underside of the connector moulding and the adjacent parts of the heat and gases of the soldering apparatus from damaging the connector. Abi (2) For large series a jig is recommended. Its protective cover with a fast ac heat generated by the soldering apparatus. As an additional protection a foi Cross section of solder terminations (1) For solve terminations |
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| Test voltage Ur.m.s 1 kV Working voltage 500 V for pollution degree 1 Contact resistance max. 20mDhm Insulation resistance min. 10*0hm Working current act. to IEC 60512-2 See derating diagram Temperature range -55°C+125°C Itemperature range -55°C+125°C Itemperature range 6-pole max. 12N for PL1-2 / 18N for PL3 10-pole max. 20N for PL1-2 / 18N for PL3 30-pole max. 60N for PL1-2 / 90N for PL3 11-pole max. 20N for PL1-2 / 18N for PL3 30-pole max. 60N for PL1-2 / 102N for PL3 10-pole max. 20N for PL1-2 / 48N for PL3 30-pole max. 60N for PL1-2 / 102N for PL3 11-pole max. 20N for PL1-2 / 48N for PL3 50-pole max. 100N for PL3 10-pole max. 20N for PL1-2 / 48N for PL3 50-pole max. 100N for PL3 20-pole max. 40N for PL1-2 / 48N for PL3 50-pole max. 100N for PL3 20-pole max. 40N for PL1-2 / 72N for PL3 60-pole max. 12N for PL1-2 / 180N for PL3 24-pole max. 48N for PL1-2 / 72N for PL3 60-pole max. 12N for PL3 24-pole max. 52N for PL1-2 / 78N for PL3 26-pole max. 52N for PL3 26-pole max. 52N for PL1-2 / 78N for PL3 50 mating cycles Mating cycles <t< td=""><td>heat generated by the soldering apparatus. As an additional protection a foi</td></t<> | heat generated by the soldering apparatus. As an additional protection a foi |
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| B Insulation resistance min. 10*0hm Working current acc. to IEC 60512-2 See derating diagram Temperature range -55°C +125°C Termination technology solder, wire wrap 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 Insertion and withdrawal forces 10-pole max. 20N for PL1-2 / 30N for PL3 34-pole max. 60N for PL1-2 / 12N for PL3 Insertion and withdrawal forces 16-pole max. 20N for PL1-2 / 48N for PL3 50-pole max. 100N for PL1-2 / 12N for PL3 20-pole max. 40N for PL1-2 / 48N for PL3 50-pole max. 100N for PL1-2 / 150N for PL3 20-pole max. 12N for PL1-2 / 48N for PL3 20-pole max. 40N for PL1-2 / 48N for PL3 50-pole max. 120N for PL3 20-pole max. 120N for PL3 21-pole max. 40N for PL1-2 / 72N for PL3 (only for solder) 64-pole max. 128N for PL1-2 / 192N for PL3 22-pole max. 52N for PL1-2 / 78N for PL3 500 mating cycles 10 days gas test PL 1 acc. to IEC 60603-13 500 mating cycles 10 days gas test PL 2 acc. to IEC 60603-13 50 mating cycles No gas test PL 2 acc. to IEC 60603-13 | 0,525±0,025 |
| Temperature range -55°C +125°C Termination technology solder, wire wrap Image: Clearance & creepage distance min. 0,5 mm clearance, min. 0,56 creepage Clearance & creepage distance min. 0,5 mm clearance, min. 0,56 creepage 30-pole max. 60N for PL1-2 / 90N for PL3 Insertion and withdrawal forces 6-pole max. 12N for PL1-2 / 18N for PL3 34-pole max. 60N for PL1-2 / 102N for PL3 Insertion and withdrawal forces 10-pole max. 20N for PL1-2 / 42 for PL3 40-pole max. 80N for PL1-2 / 120N for PL3 Insertion and withdrawal forces 16-pole max. 20N for PL1-2 / 48N for PL3 50-pole max. 100N for PL1-2 / 150N for PL3 20-pole max. 40N for PL1-2 / 60N for PL3 60-pole max. 120N for PL3 60-pole max. 120N for PL3 21-pole max. 48N for PL1-2 / 72N for PL3 (only for solder) 64-pole max. 120N for PL3 10-pole max. 120N for PL3 22-pole max. 52N for PL1-2 / 78N for PL3 500 mating cycles 10 days gas test 22-pole max. 52N for PL1-2 / 78N for PL3 500 mating cycles 10 days gas test PL 1 acc. to IEC 60603-13 50 mating cycles 10 days gas test PL 2 acc. to IEC 60603-13 50 mating cycles 4 days gas test PL 3 acc. to IEC 60603-13 50 mating cycles No gas | 0,525±0,025 |
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| C 6-pole max. 12N for PL1-2 / 18N for PL3 30-pole max. 60N for PL1-2 / 9N for PL3 10-pole max. 20N for PL1-2 / 30N for PL3 34-pole max. 68N for PL1-2 / 102N for PL3 14-pole max. 20N for PL1-2 / 42 for PL3 40-pole max. 80N for PL1-2 / 120N for PL3 14-pole max. 20N for PL1-2 / 42 for PL3 40-pole max. 80N for PL1-2 / 120N for PL3 16-pole max. 32N for PL1-2 / 48N for PL3 50-pole max. 100N for PL1-2 / 150N for PL3 20-pole max. 40N for PL1-2 / 60N for PL3 60-pole max. 120N for PL1-2 / 180N for PL3 20-pole max. 40N for PL1-2 / 72N for PL3 60-pole max. 120N for PL1-2 / 180N for PL3 20-pole max. 52N for PL1-2 / 73N for PL3 60-pole max. 120N for PL1-2 / 180N for PL3 20-pole max. 52N for PL1-2 / 73N for PL3 60-pole max. 128N for PL1-2 / 192N for PL3 20-pole max. 52N for PL1-2 / 73N for PL3 60-pole max. 128N for PL1-2 / 192N for PL3 20-pole max. 52N for PL1-2 / 73N for PL3 60-pole max. 128N for PL1-2 / 192N for PL3 20-pole max. 52N for PL1-2 / 73N for PL3 60-pole max. 128N for PL1-2 / 192N for PL3 20-pole max. 52N for PL1-2 / 73N for PL3 60-pole max. 128N for PL1-2 / 192N for PL3 20-pole max. 52N for PL1-2 / 73N for PL3 500 mating cycles 10 days gas test PL 1 acc. to IEC 60603-13 50 mating cycles N ogas te | 0,64±0,01 |
| C 10-pole max. 20N for PL1-2 / 30N for PL3 34-pole max. 68N for PL1-2 / 102N for PL3 Insertion and withdrawal forces 14-pole max. 28N for PL1-2 / 42 for PL3 40-pole max. 80N for PL1-2 / 120N for PL3 Insertion and withdrawal forces 16-pole max. 32N for PL1-2 / 48N for PL3 50-pole max. 100N for PL1-2 / 150N for PL3 20-pole max. 40N for PL1-2 / 60N for PL3 60-pole max. 120N for PL1-2 / 180N for PL3 60-pole max. 120N for PL-2 / 180N for PL3 20-pole max. 40N for PL1-2 / 72N for PL3 (only for solder) 64-pole max. 120N for PL1-2 / 192N for PL3 64-pole max. 128N for PL1-2 / 192N for PL3 26-pole max. 52N for PL1-2 / 78N for PL3 500 mating cycles 10 days gas test 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 60603-13 500 mating cycles 4 days gas test PL 3 acc. to IEC 60603-13 50 mating cycles No gas test PL 3 acc. to IEC 60603-13 50 mating cycles No gas test PL 3 acc. to IEC 60603-13 50 mating cycles No gas test PL 3 acc. to IEC 60603-13 50 mating cycles No gas test PL 3 acc. to IEC 60603-13 50 m | |
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| Insertion and withdrawal forces 16-pole max. 32N for PL1-2 / 48N for PL3 50-pole max. 100N for PL1-2 / 150N for PL3 20-pole max. 40N for PL1-2 / 60N for PL3 60-pole max. 120N for PL1-2 / 180N for PL3 24-pole max. 48N for PL1-2 / 72N for PL3 (only for solder) 64-pole max. 128N for PL1-2 / 192N for PL3 26-pole max. 52N for PL1-2 / 78N for PL3 64-pole max. 128N for PL1-2 / 192N for PL3 26-pole max. 52N for PL1-2 / 78N for PL3 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 PL 3 acc. to IEC 60603-13 50 mating cycles No gas test VL file E 102079 Yes | |
| C 24-pole max. 48N for PL1-2 / 72N for PL3 (only for solder) 64-pole max. 128N for PL1-2 / 192N for PL3 26-pole max. 52N for PL1-2 / 78N for PL3 26-pole max. 52N for PL1-2 / 78N for PL3 S4 surface treatment PL 1 acc. to IEC 60603-13 PL 2 acc. to IEC 60603-13 PL 3 acc. to IEC 60603-13 PL 3 acc. to IEC 60603-13 S0 mating cycles VL file RoHS - compliant Yes S4 Surface treatment S4 surface treatment S4 surface treatment S4 surface treatment PL 1 acc. to IEC 60603-13 S0 mating cycles S0 m | |
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| Mating cycles 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 | |
| PL 2 acc. to IEL 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 | |
| UL file E 102079 RoHS - compliant Yes | |
| RoHS - compliant Yes | |
| | |
| | |
| Hot plugging No | |
| Insulator material | Packaging material (only for plastic tray) |
| D Material PBT (thermoplastics, glass fiber reinforcement 30%) | |
| Color Black (RAL 7001) or grey (RAL 7032) | Material Polystyrol |
| UL classification UL94-V0 | Color Yellow Standardization acc. to DIN EN / IEC 61340-5- |
| Material group acc. IEC 60664-1 IIIa (175 < CTI < 400) | |
| NF F 16-101 classification I3, F3 | - Safe protection for electronic components against electrostatic charges |
| Contact material | |
| Contact material Copper alloy | |
| Plating termination zone Sn over Ni | [|
| Plating contact zone PL 1, 3: Au / PL 2, S4: Au over PdNi | |
| E 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. | All Dimensions in mm Scale Free size tol. |
| | Original Size DIN A3 1:1 |
| 2) Derating | All rights reserved Created by Inspected by |
| 3) Derating curve at 1 max x 0.8(IEC 60512-2) | Department EC PD - DE Title |
| F | HARTING Electronics (mbH |
| B 18 20 30 46 50 56 26 86 96 166 118 126 136 | |
| 18 28 38 48 58 58 28 88 98 18818328138 Ambient temperature [°C] | D-32339 Espelkamp Type DS Number 0918120 |
| 1 2 3 4 | |



<u>A</u>3