



# SEK PCB 2rows



### General information

|  |  |                |
|--|--|----------------|
| Design   | Cable connector PCB 2rows                                  |                |
| No. of contacts  | from 4 to 64-pole  |                |
| Contact spacing  | on PCB side: 2,54mm [0,1"]; on cable side: 1,27mm [0,050"] |                |
| Test voltage   | 1000V AC - 1 minute  |                |
| Working voltage  | 320 V for pollution degree 1                               |                |
| Contact resistance                                     | 10mOhm max.  |                |
| Insulation resistance                                  | 1x10 <sup>9</sup> Ohm min.                                 |                |
| Working current acc. to IEC 60512, @20°C, 80% derating | 10-pole: 4,0 A   | 40-pole: 3,5 A |
|  | 26-pole: 3,6 A   | 64-pole: 2,8 A |
| Temperature range                                      | -55°C ... +105°C   |                |
| Termination technology                                 | solder   |                |
| Clearance  | min. 0,50mm  |                |
| Creepage   | min. 0,56mm  |                |
| UL file acc. UL 1977                                   | ECBT2.E102079  |                |
| UL file acc. CSA-C22.2(for Canada)                     | ECBT8.E102079  |                |
| RoHS - compliant                                       | Yes  |                |
| Leadfree   | Yes  |                |

### Insulator material

|                                 |                      |
|---------------------------------|----------------------|
| Material                        | PBT                  |
| Color                           | Grey                 |
| UL classification               | UL 94-V0             |
| Material group acc. IEC 60664-1 | II (400 ≤ CTI < 600) |

### Contact material

|                          |  |
|--------------------------|--|
| Contact material         | Copper alloy   |
| Plating termination zone | Sn over Ni   |
| Plating contact zone     | Sn over Ni      only for 0918126962X: Sn over Ni or Au over Sn over Ni |

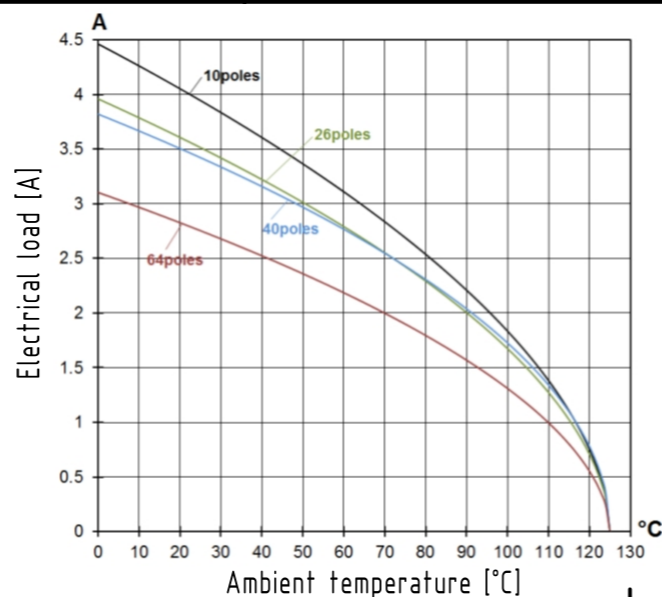
### Derating diagram acc. to IEC 60512-5(Current carrying capacity)

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

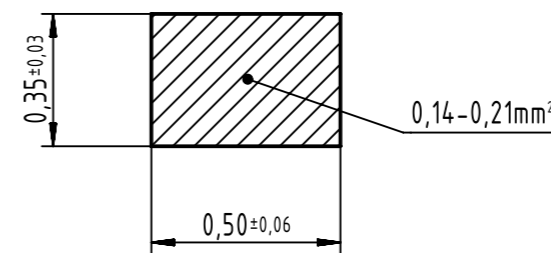
Derating curve at I<sub>max</sub>\*0,8(IEC 60512-5-2)



### Cable information

|                     |   |
|---------------------|---|
| Wire material       | Cu, tinned  |
| Gauge               | AWG 28/7 (0,089 mm <sup>2</sup> )   |
| Insulation material | PVC<br>or non-halogenated flame retardant Polyolefin (only for halogen free flat cable) |

### Cross section of solder terminations



|                          |                       |               |              |                                     |            |               |
|--------------------------|-----------------------|---------------|--------------|-------------------------------------|------------|---------------|
|                          | All rights reserved   | Created by    | Inspected by | Standardisation                     | Date       | State         |
|                          | Department EC PD - DE | STORCK        | LEHNERT      | HOFFMANN                            | 2016-04-05 | Final Release |
| HARTING Electronics GmbH |                       | Title         |              | Doc-Key / ECM-Nr.                   |            | Page          |
| D-32339 Espelkamp        |                       | SEK PCB 2rows |              | 100561749/UGD/001/E<br>500000102803 |            | 1/1           |
|                          |                       | Type          | Number       | Rev.                                |            |               |
|                          |                       | DS            | 09185100600  | E                                   |            |               |

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