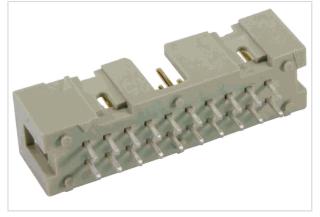


# SEK-18 SV MA LP STR45 10P PL3



| Part number        | 09 18 510 7322                      |
|--------------------|-------------------------------------|
| Specification      | SEK-18 SV MA LP STR45 10P PL3       |
| HARTING eCatalogue | https://b2b.harting.com/09185107322 |

Image is for illustration purposes only. Please refer to product description.

#### Identification

| Category                   | Connectors      |
|----------------------------|-----------------|
| Series                     | SEK Low-profile |
| Element                    | Male connector  |
| Description of the contact | Straight        |

#### Version

| Termination method | Wave soldering termination |
|--------------------|----------------------------|
| Connection type    | PCB to cable<br>PCB to PCB |
| Number of contacts | 10                         |
| Termination length | 4.5 mm                     |

## **Technical characteristics**

| Contact rows                       | 2                         |
|------------------------------------|---------------------------|
| Contact spacing (termination side) | 2.54 mm                   |
| Rated current                      | 1 A                       |
| Insulation resistance              | >10 <sup>9</sup> Ω        |
| Contact resistance                 | ≤20 mΩ                    |
| Limiting temperature               | -55 +125 °C               |
| Insertion and withdrawal force     | ≤30 N                     |
| Performance level                  | 3<br>acc. to IEC 60603-13 |
| Mating cycles                      | ≥50                       |

Page 1 / 3 | Creation date 2021-10-01 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com Product data sheet 09 18 510 7322 SEK-18 SV MA LP STR45 10P PL3



#### Technical characteristics

| Test voltage U <sub>r.m.s.</sub>          | 1 kV   |
|---|--|
| Isolation group                           | Illa (175 ≤ CTI < 400)   |
|   |  |
| Material properties                       |  |
| Material (insert)                         | Thermoplastic resin (PBT)                                      |
| Colour (insert)                           | Grey   |
| Material (contacts)                       | Copper alloy   |
| Surface (contacts)                        | Noble metal over Ni Mating side<br>Sn over Ni Termination side |
| Material flammability class acc. to UL 94 | V-0  |
| RoHS                                      | compliant  |
| ELV status                                | compliant  |
| China RoHS                                | e  |
| REACH Annex XVII substances               | No   |
| REACH ANNEX XIV substances                | No   |
| REACH SVHC substances                     | No   |
| California Proposition 65 substances      | Yes  |
| California Proposition 65 substances      | Nickel<br>Lead<br>Antimony trioxide                            |

### Specifications and approvals

| Specifications                 | IEC 60603-13   |
|--------------------------------|--|
| UL / CSA                       | UL 1977 ECBT2.E102079<br>CSA-C22.2 No. 182.3 ECBT8.E102079 |
| Railway classification         | F3/I3  |
| Commercial data                |  |
| Packaging size                 | 100  |
| Net weight                     | 1.72 g   |
| Country of origin              | Romania  |
| European customs tariff number | 85366990   |
| eCl@ss                         | 27460201 PCB connector (board connector)                   |

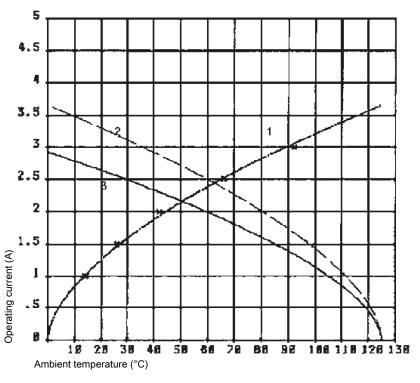
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#### Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (nonintermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



① Temperature raise

② Derating curve

③ Derating curve 80%

#### Cross section of solder termination



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