## SEK-18 SV MA LP STR45 14P PL2



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

| Part number | 09185146322 |
| :--- | :--- |
| Specification | SEK-18 SV MA LP STR45 14P PL2 |
| HARTING eCatalogue | https://b2b.harting.com/09185146322 |

## 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 |
| Number of contacts | 14 |
| Termination length | 4.5 mm |
| Performance level | 2 |

## Technical characteristics

| Contact rows | 2 |
| :--- | :--- |
| Contact spacing (termination side) | 2.54 mm |
| Rated current | 1 A |
| Insulation resistance | $>10^{9} \Omega$ |
| Contact resistance | $\leq 20 \mathrm{~m} \Omega$ |
| Limiting temperature | $-55 \ldots+125^{\circ} \mathrm{C}$ |
| Insertion and withdrawal force | $\leq 28 \mathrm{~N}$ |
| Mating cycles | $\geq 250$ |
| Test voltage $\mathrm{U}_{\text {r.m.s. }}$ | 1 kV |

Page 1 / 3 | Creation date 2020-08-24 | 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.
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## Technical characteristics

Isolation group $\quad$ IIIa $(175 \leq$ CTI $<400)$

## Material properties

| Material (insert) | Thermoplastic resin (PBT) |
| :--- | :--- |
| Colour (insert) | Grey |
| Material (contacts) | Copper alloy |
| Surface (contacts) | Sn over Ni Termination side <br> Material flammability class acc. to UL 94 Ni Mating side |
| RoHS | V-0 |
| ELV status | compliant |
| China RoHS | eompliant |
| REACH Annex XVII substances | No |
| REACH ANNEX XIV substances | No |
| REACH SVHC substances | No |

Specifications and approvals

| Specifications | IEC 60603-13 |
| :--- | :--- |
| UL / CSA | UL 1977 ECBT2.E102079 |
| Railway classification | CSA-C22.2 No. 182.3 ECBT8.E102079 |

Commercial data

| Packaging size | 100 |
| :--- | :--- |
| Net weight | 2 g |
| Country of origin | Switzerland |
| European customs tariff number | 85366990 |
| eCl@ss | 27440402 PCB connector |

## 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


Page 3 / 3 | Creation date 2020-08-24 | 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.
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