Pushing Performance

# SEK-18 SV MA LP ANG45 14P PL2

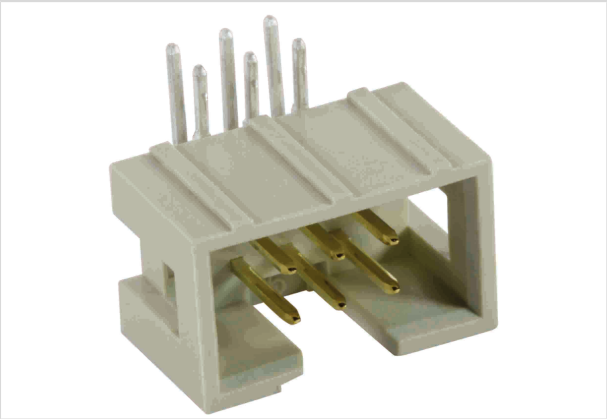


Image is for illustration purposes only. Please refer to product description.

| | |
|---|---|
| Part number | 09 18 514 6321 |
| Specification | SEK-18 SV MA LP ANG45 14P PL2 |
| HARTING eCatalogue | https://b2b.harting.com/09185146321 |

## Identification

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

## Version

| | |
|---|---|
| Termination method | Wave soldering termination |
| Connection type | PCB to cable<br>Motherboard to daughtercard |
| Number of contacts | 14 |
| Termination length | 4.5 mm |

## Technical characteristics

| | |
|---|---|
| Contact rows | 2 |
| Contact spacing (termination side) | 2.54 mm |
| Rated current | 1 A |
| Insulation resistance | $>10^9$ Ω |
| Contact resistance | ≤20 mΩ |
| Limiting temperature | -55 ... +125 °C |
| Insertion and withdrawal force | ≤28 N |
| Performance level | 2<br>acc. to IEC 60603-13 |
| Mating cycles | ≥250 |


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## Technical characteristics

| | |
|---|---|
| Test voltage $U_{r.m.s.}$ | 1 kV |
| Isolation group | IIIa (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 | 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

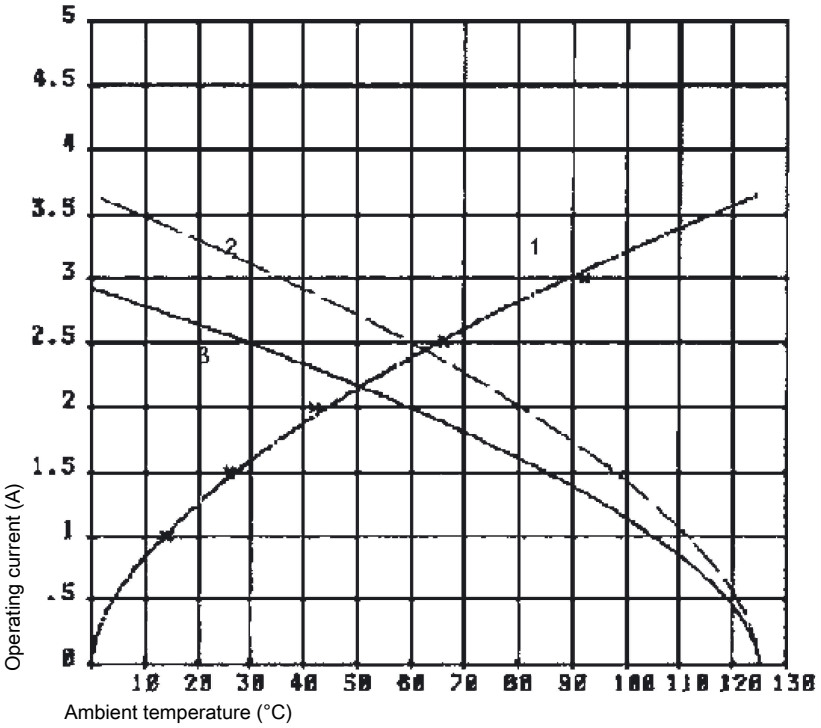
| | |
|---|---|
| Packaging size | 100 |
| Net weight | 3.34 g |
| Country of origin | Romania |
| European customs tariff number | 85366990 |
| eCl@ss | 27460201 PCB connector (board connector) |


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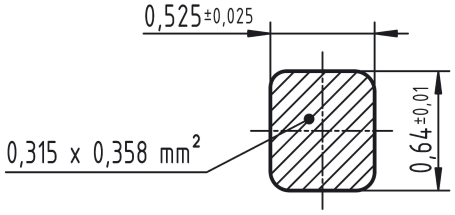
## Current carrying capacity

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 (non-intermittent) 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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