



Pushing Performance  
Since 1945

# SEK-18 SV MA STD STR45 RLG 50P PLS4

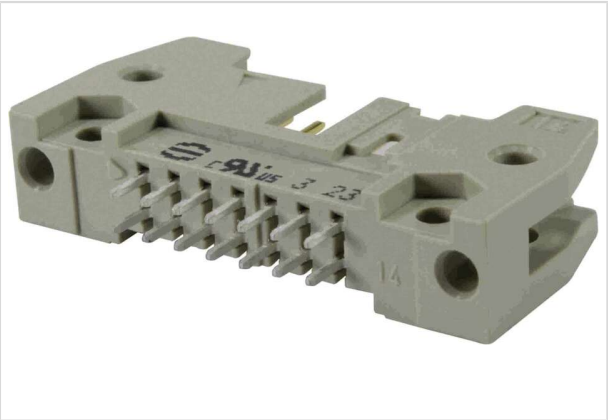


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 09 18 550 5902                                                                |
| Specification      | SEK-18 SV MA STD STR45 RLG 50P PLS4                                           |
| HARTING eCatalogue | <a href="https://harting.com/09185505902">https://harting.com/09185505902</a> |

## Identification

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

## Version

|                    |                            |
|--------------------|----------------------------|
| Termination method | Wave soldering termination |
| Connection type    | PCB to cable               |
| Number of contacts | 50                         |
| Termination length | 4.5 mm                     |
| Locking type       | With long levers           |

## Technical characteristics

|                                    |                           |
|------------------------------------|---------------------------|
| Contact rows                       | 2                         |
| Contact spacing (termination side) | 2.54 mm                   |
| Rated current                      | 1 A                       |
| Insulation resistance              | $>10^9 \Omega$            |
| Contact resistance                 | $\leq 20 \text{ m}\Omega$ |
| Limiting temperature               | -55 ... +125 °C           |
| Insertion force                    | $\leq 100 \text{ N}$      |
| Withdrawal force                   | $\leq 100 \text{ N}$      |
| Performance level                  | NM 30 (S4)                |
| Mating cycles                      | $\geq 250$                |



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## Technical characteristics

|                           |                               |
|---------------------------|-------------------------------|
| Test voltage $U_{r.m.s.}$ | 1 kV                          |
| Isolation group           | IIIa ( $175 \leq CTI < 400$ ) |

## 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 |
| Layer thickness                           | $\geq 0.76 \mu m$                                              |
| Layer thickness                           | $\geq 30 \mu inch$                                             |
| Material flammability class acc. to UL 94 | V-0                                                            |
| RoHS                                      | compliant                                                      |
| ELV status                                | compliant                                                      |
| China RoHS                                | e                                                              |
| REACH Annex XVII substances               | Not contained                                                  |
| REACH ANNEX XIV substances                | Not contained                                                  |
| REACH SVHC substances                     | Not contained                                                  |
| California Proposition 65 substances      | Yes                                                            |
| California Proposition 65 substances      | Lead<br>Nickel                                                 |
| Fire protection on railway vehicles       | EN 45545-2 (2020-08)                                           |
| Requirement set with Hazard Levels        | R26                                                            |

## 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                 | 50       |
| Net weight                     | 16.62 g  |
| Country of origin              | Romania  |
| European customs tariff number | 85366990 |



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Commercial data

|             |                                          |
|-------------|------------------------------------------|
| GTIN        | 5713140033832                            |
| eCl@ss      | 27460201 PCB connector (board connector) |
| ETIM        | EC002637                                 |
| UNSPSC 24.0 | 39121415                                 |

Cross section of solder termination

