



Pushing Performance  
Since 1945

# SEK-19 SV HT MA STD ANG29 RLG 20P PL2

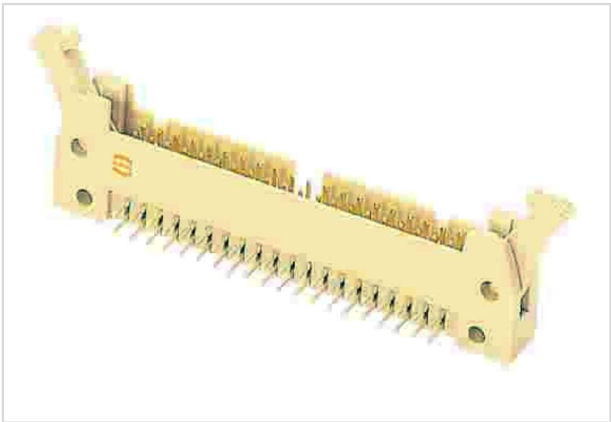


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 09 19 520 6903                                                                |
| Specification      | SEK-19 SV HT MA STD ANG29 RLG 20P PL2                                         |
| HARTING eCatalogue | <a href="https://harting.com/09195206903">https://harting.com/09195206903</a> |

## Identification

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

## Version

|                    |                                    |
|--------------------|------------------------------------|
| Termination method | Reflow soldering termination (THR) |
| Connection type    | PCB to cable                       |
| Number of contacts | 20                                 |
| Termination length | 2.9 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 (during reflow soldering max. +240 °C for 60 s) |
| Insertion force                    | $\leq 40 \text{ N}$                                             |
| Withdrawal force                   | $\leq 40 \text{ N}$                                             |
| Performance level                  | 2<br>acc. to IEC 60603-13                                       |



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## Technical characteristics

|                           |                             |
|---------------------------|-----------------------------|
| Mating cycles             | ≥250                        |
| Test voltage $U_{r.m.s.}$ | 1 kV                        |
| Isolation group           | II ( $400 \leq CTI < 600$ ) |

## Material properties

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Material (insert)                         | Thermoplastic resin (PCT)                                      |
| Colour (insert)                           | Beige                                                          |
| 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               | 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) + A1 (2023-10)                            |
| 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 |

## Commercial data

|                                |                                          |
|--------------------------------|------------------------------------------|
| Packaging size                 | 100                                      |
| Net weight                     | 8.49 g                                   |
| Country of origin              | Romania                                  |
| European customs tariff number | 85366990                                 |
| GTIN                           | 5713140037113                            |
| eCl@ss                         | 27460201 PCB connector (board connector) |

## Commercial data

|             |          |
|-------------|----------|
| ETIM        | EC002637 |
| UNSPSC 24.0 | 39121415 |

## Cross section of solder termination

