

SEK-18 SV MA STD STR45 RLG 40P PLS4



Part number	09 18 540 5902
Specification	SEK-18 SV MA STD STR45 RLG 40P PLS4
HARTING eCatalogue	https://b2b.harting.com/09185405902

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

Identification

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

Version

Termination method	Wave soldering termination
Locking type	With long levers
Connection type	PCB to cable
Number of contacts	40
Termination length	4.5 mm
Performance level	1 NM 30 (S4)

Technical characteristics

Contact rows	2
Contact spacing (termination side)	2.54 mm
Rated current	1 A
Rated voltage	500 V
Insulation resistance	>10 ⁹ Ω
Contact resistance	≤20 mΩ
Limiting temperature	-55 +125 °C
Insertion and withdrawal force	≤80 N

Page 1 / 3 | Creation date 2020-01-13 | 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



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)GreyMaterial (contacts)Copper alloyBurface (contacts)Sn over Ni Termination side Au over Pd/Ni Mating sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNoREACH ANNEX XIV substancesNo
Material (contacts)Copper alloySurface (contacts)Sn over Ni Termination side Au over Pd/Ni Mating sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNo
Surface (contacts)Sn over Ni Termination side Au over Pd/Ni Mating sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNo
Surface (contacts)Au over Pd/Ni Mating sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNo
RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNo
ELV status compliant China RoHS e REACH Annex XVII substances No
China RoHS e REACH Annex XVII substances No
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 CSA-C22.2 No. 182.3 ECBT8.E102079
Railway classification	F3/I3
Commercial data Packaging size	50
Net weight	13.14 g
Country of origin	Switzerland
European customs tariff number	85366990
eCl@ss	27440402 PCB connector

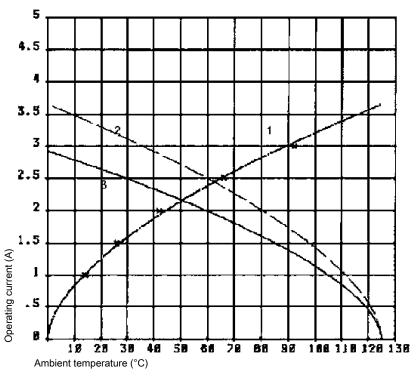
Page 2 / 3 | Creation date 2020-01-13 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity 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 18 540 5902 SEK-18 SV MA STD STR45 RLG 40P PLS4



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

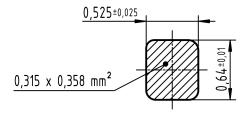


① Temperature raise

② Derating curve

③ Derating curve 80%

Cross section of solder termination



Page 3 / 3 | Creation date 2020-01-13 | 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