Pushing Performance

SEK-18 SV MA STD STRWW 50P PL2

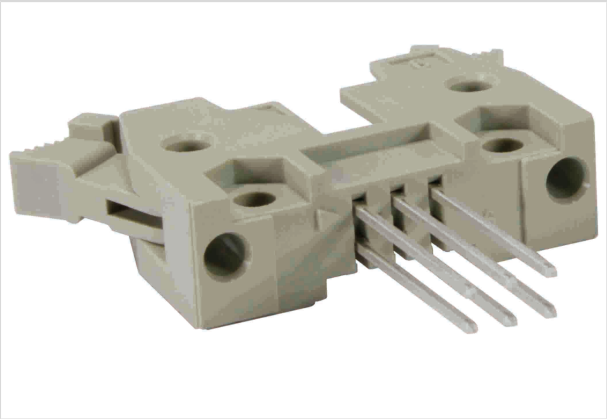


Image is for illustration purposes only. Please refer to product description.

Part number	09 18 550 6927
Specification	SEK-18 SV MA STD STRWW 50P PL2
HARTING eCatalogue	https://b2b.harting.com/09185506927

Identification

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

Version

Termination method	Wrap termination
Connection type	PCB to cable
Number of contacts	50
Termination length	15 mm

Technical characteristics

Dimensions wire wrap post	0.6 x 0.6 mm
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	≤100 N
Performance level	2 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 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	Nickel Lead Antimony trioxide

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

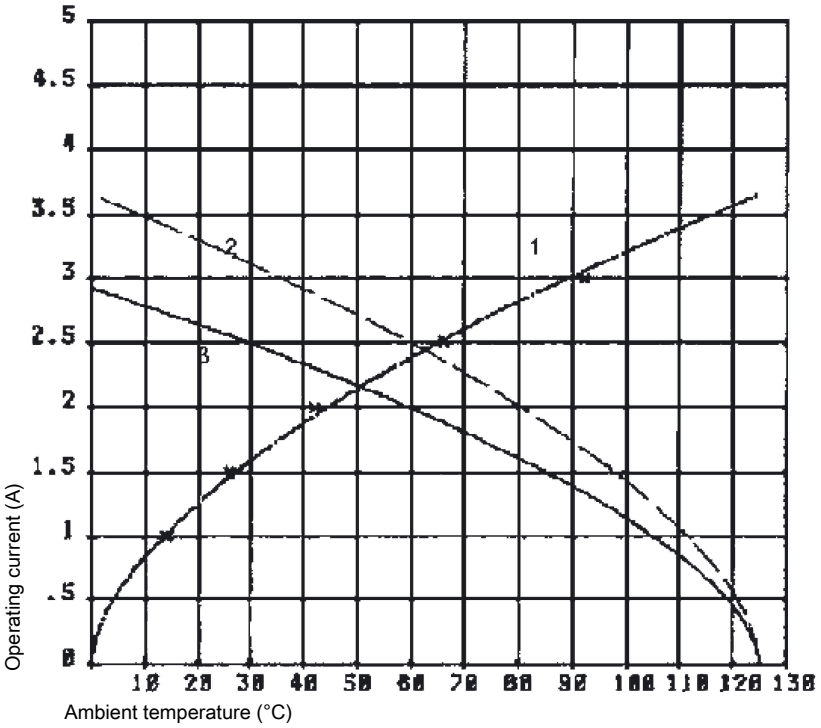
Packaging size	50
Net weight	12.26 g
Country of origin	Romania
European customs tariff number	85366990
eCl@ss	27460201 PCB connector (board connector)

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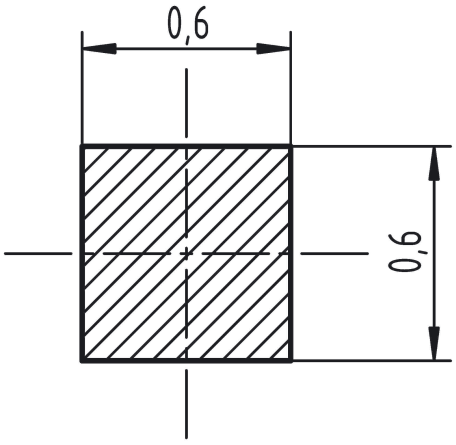
Current carrying capacity

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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