

SEK-18 SV MA STD STR45PR-IN RLG 60P AUS4



Part number	09 18 560 5909
Specification	SEK-18 SV MA STD STR45PR-IN RLG 60P AUS4
HARTING eCatalogue	https://b2b.harting.com/09185605909

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	Press-in termination
Connection type	PCB to cable
Number of contacts	60
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 Ω
Contact resistance	≤20 mΩ
Limiting temperature	-55 +105 °C
Insertion and withdrawal force	≤120 N
Performance level	NM 30 (S4)
Mating cycles	≥250
Test voltage U _{r.m.s.}	1 kV

This product is not orderable anymore. Contact your local distribution partner for alternatives.



Technical characteristics

Isolation group	IIIa (175 ≤ CTI < 400)
PCB thickness	≥1.6 mm

Material properties

Material (insert)	Thermoplastic resin (PBT)
Colour (insert)	Grey
Material (contacts)	Copper alloy
Surface (contacts)	Noble metal over Ni Mating side Ni Termination side
Layer thickness	≥0.76 µm
Layer thickness	≥30 µinch
Material flammability class acc. to UL 94	V-0
RoHS	compliant
ELV status	compliant
China RoHS	е
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	10	
Net weight	15.36 g	
Country of origin	Czechia	
European customs tariff number	85366990	
eCl@ss	27460201 PCB connector (board connector)	

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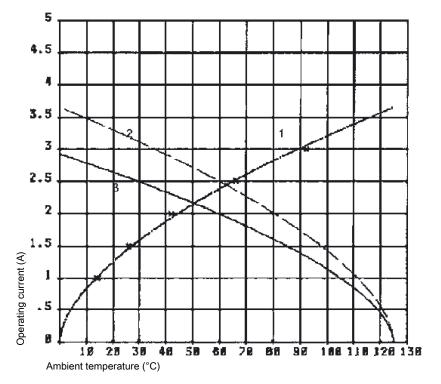


Pushing Performance

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

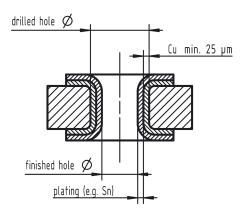


- ① Temperature raise
- ② Derating curve
- 3 Derating curve 80%

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Recommended configuration of plated through holes



Tin plated PCB (HAL) acc. to EN 60352-5	Drilled hole Ø	1,15-0,03 mm
	Си	min. 25 μm
	Sn	max. 15 μm
	plated hole Ø	0,94 - 1,09 mm
	Drilled hole Ø	1,15-0,03 mm
Chemical tin plated	Си	min. 25 μm
РСВ	Sn	min. 0,8µm
	plated hole Ø	1,00 - 1,10 mm
	Drilled hole Ø	1,15-0,03 mm
Gold /Nickel plated PCB	Си	min. 25 μm
	Ni	3 - 7 µm
	Au	0,05 - 0,12 µm
	plated hole Ø	1,00 - 1,10 mm
Silver plated PCB	Drilled hole Ø	1,15-0,03 mm
	Си	min. 25 μm
	Ag	0,1 - 0,3 µm
	plated hole Ø	1,00 - 1,10 mm
Copper plated PCB (OSP)	Drilled hole Ø	1,15-0,03 mm
	Си	min. 25 μm
	plated hole Ø	1,00 – 1,10 mm

In addition to the hot-air-level (HAL) other pcb surfaces are getting more important. Due to their different properties, such as mechanical strength and coefficient of friction we recommend the above mentioned configuration of pcb through holes.