

# SEK-18 SV MA STD STR45PR-IN RKZ 50P AUS4



	Part number	09 18 550 5919
	Specification	SEK-18 SV MA STD STR45PR-IN RKZ 50P AUS4
	HARTING eCatalogue	https://b2b.harting.com/09185505919

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	50
Termination length	4.5 mm
Locking type	With short levers

## Technical characteristics

Contact rows	2
Contact spacing (termination side)	2.54 mm
Rated current	1 A
Insulation resistance	>10 <sup>9</sup> Ω
Contact resistance	≤20 mΩ
Limiting temperature	-55 +105 °C
Insertion and withdrawal force	≤100 N
Performance level	NM 30 (S4)
Mating cycles	≥250
Test voltage U <sub>r.m.s.</sub>	1 kV

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### Technical characteristics

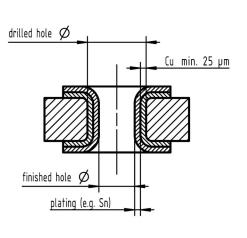
Isolation group	IIIa (175 ≤ CTI < 400)			
PCB thickness	≥1.6 mm			
Material properties				
Material (insert)	Thermoplastic resin (PBT)			
Colour (insert)	Grey			
Material (contacts)	Copper alloy			
Surface (contacts)	Noble metal over Ni Mating side Ni Termination side			
Layer thickness	≥0.76 µm			
Layer thickness	≥30 µinch			
Material flammability class acc. to UL 94	V-0			
RoHS	compliant			
ELV status	compliant			
China RoHS	e			
REACH Annex XVII substances	Not contained			
REACH ANNEX XIV substances	Not contained			
REACH SVHC substances	Not contained			
Requirement set with Hazard Levels	R26			

## 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	15	
Net weight	17.41 g	
Country of origin	Czechia	
European customs tariff number	85366990	
GTIN	5713140033955	
eCl@ss	27460201 PCB connector (board connector)	

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

### Recommended configuration of plated through holes

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.

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