

## SEK-18 SV MA STD STR45PR-IN 40P AUS4

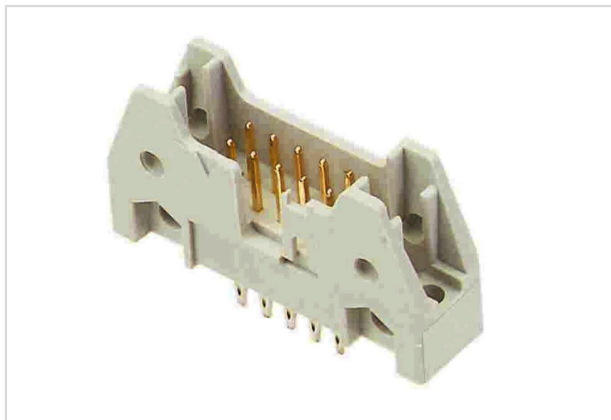


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Part number	09 18 540 5929
Specification	SEK-18 SV MA STD STR45PR-IN 40P AUS4
HARTING eCatalogue	<a href="https://b2b.harting.com/09185405929">https://b2b.harting.com/09185405929</a>

### 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	40
Termination length	4.5 mm

### 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 ... +105 °C
Insertion and withdrawal force	$\leq 80 \text{ N}$
Performance level	NM 30 (S4)
Mating cycles	$\geq 250$
Test voltage $U_{r.m.s.}$	1 kV
Isolation group	IIIa ( $175 \leq \text{CTI} < 400$ )



**Pushing Performance**  
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## Technical characteristics

PCB thickness  $\geq 1.6$  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	$\geq 0.76$ $\mu$ m
Layer thickness	$\geq 30$ $\mu$ inch
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6(c): Copper alloy containing up to 4 % lead by weight
ELV status	compliant with exemption
China RoHS	50
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Yes
REACH SVHC substances	Lead
California Proposition 65 substances	Yes
California Proposition 65 substances	Lead Nickel
Fire protection on railway vehicles	EN 45545-2 (2020-08)
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

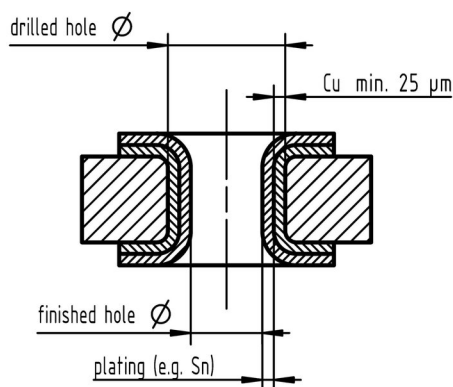
## Commercial data

Packaging size	1
Net weight	14.87 g
Country of origin	Czechia

## Commercial data

European customs tariff number	85366990
GTIN	5713140033139
ETIM	EC002637
eCl@ss	27460201 PCB connector (board connector)

## Recommended configuration of plated through holes



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
Gold /Nickel plated PCB	Drilled hole Ø	1,15-0,03 mm
	Cu	min. 25 µm
	Ni	3 - 7 µm
	Au	0,05 - 0,12 µm
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
Copper plated PCB (OSP)	Drilled hole Ø	1,15-0,03 mm
	Cu	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.

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