

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



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

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	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 Ω
Contact resistance	≤20 mΩ
Limiting temperature	-55 +105 °C
Insertion and withdrawal force	≤80 N
Performance level	NM 30 (S4)
Mating cycles	≥250
Test voltage U _{r.m.s.}	1 kV
Isolation group	Illa (175 ≤ CTI < 400)

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Technical characteristics

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 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	
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	14.87 g	
Country of origin	Czechia	
European customs tariff number	85366990	

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Commercial data

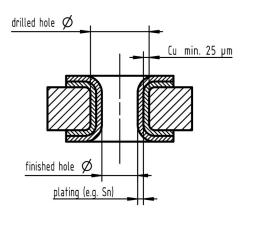
GTIN

eCl@ss

5713140033139

27460201 PCB connector (board connector)

Recommended configuration of plated through holes



Tin plated PCB (HAL) acc. to EN 60352-5	Drilled hole ${\mathscr O}$	1,15-0,03 mm
	Cu	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 PCB	Cu	min. 25 µm
	Sn	min. 0,8µm
	plated hole Ø	1,00 - 1,10 mm
	Drilled hole Ø	1,15-0,03 mm
Gold /Nickel plated PCB	Cu	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
	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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