

SEK-18 SV MA STD STR45PR-IN 20P AUS4

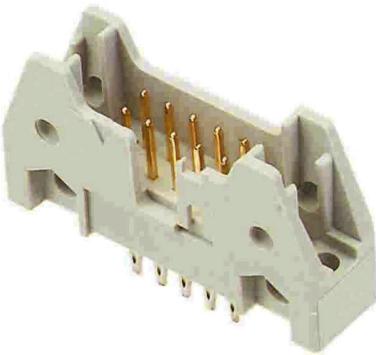


Image is for illustration purposes only. Please refer to product description.

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	20
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 force	≤40 N
Withdrawal force	≤40 N
Performance level	NM 30 (S4)
Mating cycles	≥250
Test voltage U _{r.m.s.}	1 kV

Technical characteristics

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

Material (insert)	Thermoplastic resin (PBT)
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Colour (insert)	Grey
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Material (contacts)	Copper alloy
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Surface (contacts)	Noble metal over Ni Mating side Ni Termination side
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Layer thickness	≥0.76 µm
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Layer thickness	≥30 µinch
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Material flammability class acc. to UL 94	V-0
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RoHS	compliant
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ELV status	compliant
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China RoHS	e
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REACH Annex XVII substances	Not contained
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REACH ANNEX XIV substances	Not contained
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REACH SVHC substances	Not contained
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Fire protection on railway vehicles	EN 45545-2 (2020-08)
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Requirement set with Hazard Levels	R26
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Specifications and approvals

Specifications	IEC 60603-13
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UL / CSA	UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079
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Railway classification	F3/I3
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Commercial data

Packaging size	1
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Net weight	8.95 g
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Country of origin	Czechia
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European customs tariff number	85366990
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GTIN	5713140029743
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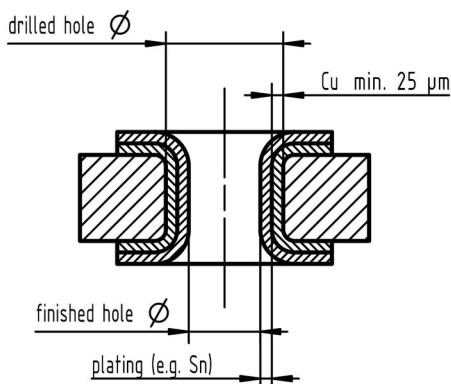
ETIM	EC002637
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Commercial data

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
	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.