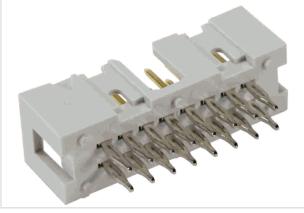


# SEK-18 SV MA LP STR55 PR-IN 20P PL3



	Part number	09 18 520 7329
	Specification	SEK-18 SV MA LP STR55 PR-IN 20P PL3
	HARTING eCatalogue	https://b2b.harting.com/09185207329

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

# Identification

Category	Connectors
Series	SEK Low-profile
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	5.5 mm
Performance level	3

# **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	≤60 N
Mating cycles	≥50
Test voltage U <sub>r.m.s.</sub>	1 kV
Isolation group	Illa (175 ≤ CTI < 400)

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Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com



### Technical characteristics

PCB thickness	1.6 mm +1.6			
Material properties				
Material (insert)	Thermoplastic resin (PBT)			
Colour (insert)	Grey			
Material (contacts)	Copper alloy			
Surface (contacts)	Nickel plated Termination side Gold plated Mating side			
Material flammability class acc. to UL 94	V-0			
RoHS	compliant			
ELV status	compliant			
China RoHS	e			
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	100		
Net weight	4.37 g		
Country of origin	Romania		
European customs tariff number	85366990		
eCl@ss	27460201 PCB connector (board connector)		

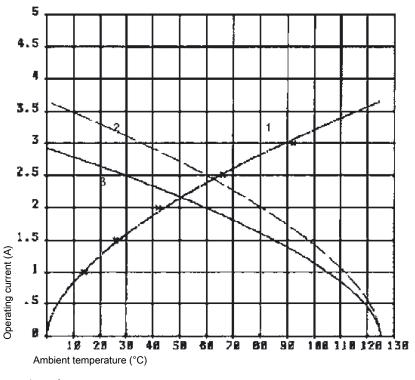
Page 2 / 4 | Creation date 2021-02-25 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com Product data sheet 09 18 520 7329 SEK-18 SV MA LP STR55 PR-IN 20P PL3



#### 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 (nonintermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2



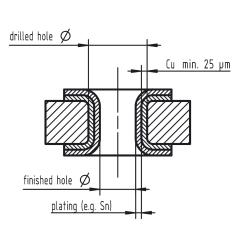
① Temperature raise

② Derating curve

③ Derating curve 80%

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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
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

### 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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