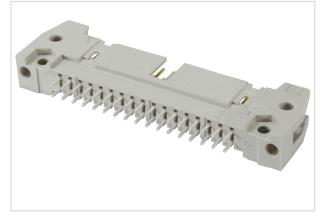


# SEK-18 SV MA STD STR29 40P PL3



Part number	09 18 540 7924
Specification	SEK-18 SV MA STD STR29 40P PL3
HARTING eCatalogue	https://b2b.harting.com/09185407924

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	Wave soldering termination
Connection type	PCB to cable
Number of contacts	40
Termination length	2.9 mm

# 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 +125 °C
Insertion and withdrawal force	≤120 N
Performance level	3 acc. to IEC 60603-13
Mating cycles	≥50
Test voltage U <sub>r.m.s.</sub>	1 kV

Page 1 / 3 | Creation date 2022-09-01 | 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 18 540 7924 SEK-18 SV MA STD STR29 40P PL3



# Technical characteristics

Isolation group	IIIa (175 ≤ CTI < 400)
Material properties	
Material (insert)	Thermoplastic resin (PBT)
Colour (insert)	Grey
Material (contacts)	Copper alloy
Surface (contacts)	Noble metal over Ni Mating side Sn over Ni Termination side
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
California Proposition 65 substances	Yes
California Proposition 65 substances	Antimony trioxide Lead Nickel
Requirement set with Hazard Levels	R26
Specifications and approvals	
Specifications	IEC 60603-13
Specifications	UL 1977 ECBT2.E102079
UL / CSA	CSA-C22.2 No. 182.3 ECBT8.E102079
Railway classification	F3/I3
Commercial data	
Packaging size	50
Net weight	12.4 g
Country of origin	Romania
European customs tariff number	85366990
GTIN	5713140033696
eCl@ss	27460201 PCB connector (board connector)

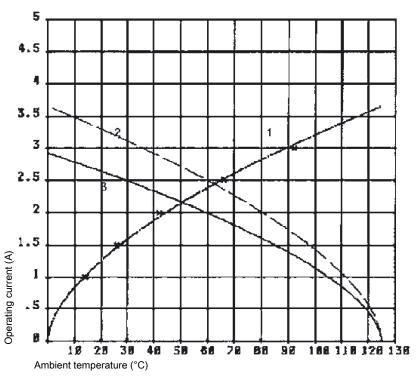
Page 2 / 3 | Creation date 2022-09-01 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity 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 18 540 7924 SEK-18 SV MA STD STR29 40P 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%

## Cross section of solder termination



Page 3 / 3 | Creation date 2022-09-01 | 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