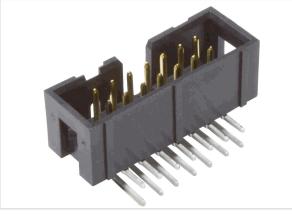


# SEK-19 SV HT MA LP ANG29 14P PL3 BLACK



Part number	09 19 514 7323 001
Specification	SEK-19 SV HT MA LP ANG29 14P PL3 BLACK
HARTING eCatalogue	https://b2b.harting.com/09195147323001

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	Angled

### Version

Termination method	Reflow soldering termination (THR)
Connection type	PCB to cable Motherboard to daughtercard
Number of contacts	14
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 (during reflow soldering max. +240 °C for 60 s)
Insertion and withdrawal force	≤42 N
Performance level	3 acc. to IEC 60603-13
Mating cycles	≥50

Page 1 / 3 | Creation date 2022-08-29 | 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



## Technical characteristics

Test voltage U <sub>r.m.s.</sub> 1 kV     Isolation group   II (400 ≤ CTI < 600)     Material groperties   Notemal Section (PCT)     Material (insert)   Black     Colour (insert)   Black     Material (contacts)   Copper alloy     Noble metal over Ni Mating side   Nover Ni Termination side     Material flammability class acc. to UL 94   V-0     RoHS   compliant     ELV status   compliant     RACH ANNEX XIV substances   Not contained     REACH ANNEX XIV substances   Not contained     REACH SVHC substances   Not contained     California Proposition 65 substances   Yes     California Proposition 65 substances   Read     Requirement set with Hazard Levels   R26	recrimear characteristics	
Material properties     Material (insert)   Thermoplastic resin (PCT)     Colour (insert)   Black     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 SVHC substances   Not contained     REACH SVHC substances   Yes     California Proposition 65 substances   Yes     California Proposition 65 substances   Lead Nickel	Test voltage U <sub>r.m.s.</sub>	1 KV
Material (insert)Thermoplastic resin (PCT)Colour (insert)BlackMaterial (contacts)Copper alloySurface (contacts)Noble metal over Ni Mating side Sn over Ni Termination sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNot containedREACH ANNEX XIV substancesNot containedREACH SVHC substancesYesCalifornia Proposition 65 substancesLead Nickel	Isolation group	II (400 ≤ CTI < 600)
Material (insert)Thermoplastic resin (PCT)Colour (insert)BlackMaterial (contacts)Copper alloySurface (contacts)Noble metal over Ni Mating side Sn over Ni Termination sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNot containedREACH ANNEX XIV substancesNot containedREACH SVHC substancesYesCalifornia Proposition 65 substancesLead Nickel		
Colour (insert)BlackMaterial (contacts)Copper alloySurface (contacts)Noble metal over Ni Mating side Sn over Ni Termination sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNot containedREACH ANNEX XIV substancesNot containedREACH SVHC substancesNot containedCalifornia Proposition 65 substancesLead Nickel	Material properties	
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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   Lead Nickel	Colour (insert)	Black
Surface (contacts) 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 Lead   Nickel Nickel	Material (contacts)	Copper alloy
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California Proposition 65 substances Yes   California Proposition 65 substances Lead Nickel	REACH ANNEX XIV substances	Not contained
California Proposition 65 substances Lead Nickel	REACH SVHC substances	Not contained
California Proposition 65 substances Nickel	California Proposition 65 substances	Yes
Requirement set with Hazard Levels R26	California Proposition 65 substances	
	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

# Commercial data

Packaging size	100
Net weight	3.8 g
Country of origin	Romania
European customs tariff number	85366990
GTIN	5713140036871
eCl@ss	27460201 PCB connector (board connector)

Page 2 / 3 | Creation date 2022-08-29 | 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 19 514 7323 001 SEK-19 SV HT MA LP ANG29 14P PL3 BLACK

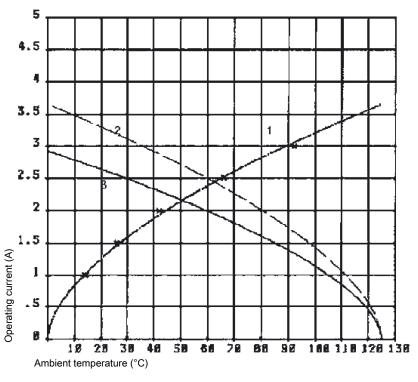


Since 1945

#### 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

Derating curve

③ Derating curve 80%

### Cross section of solder termination



Page 3 / 3 | Creation date 2022-08-29 | 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