

SEK-18 SV FE TYPA 60P PL3



Part number	09 18 560 7803
Specification	SEK-18 SV FE TYPA 60P PL3
HARTING eCatalogue	https://b2b.harting.com/09185607803

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

Identification

Category	Connectors
Series	SEK
Element	Female connector

Version

Connection type	PCB to cable
Number of contacts	60
Details	for IDC flat cable 1.27 mm (0.050") pitch AWG 28/7 - AWG 26/7

Technical characteristics

Contact rows	2
Contact spacing (termination side)	2.54 mm
Contact spacing (mating side)	1.27 mm
Rated current	2.5 A
Insulation resistance	>10 ⁹ Ω
Contact resistance	≤20 mΩ
Limiting temperature	-55 +125 °C
Insertion and withdrawal force	≤180 N
Performance level	3 acc. to IEC 60603-13
Mating cycles	≥50
Test voltage U _{r.m.s.}	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 18 560 7803 SEK-18 SV FE TYPA 60P PL3



Technical characteristics

Material (next)Thermoplastic resin (PBT)Colour (insert)GreyMaterial (contacts)Copper alloySurface (contacts)Noble metal over Ni Mating side Sn over Ni Termination sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNot containedREACH Annex XVII substancesNot containedCalifornia Proposition 65 substancesYesCalifornia Proposition 65 substancesReaRequirement set with Hazard LevelsR26SpecificationsEC 60603-13UL / CSAEC 60603-13UL / CSASing Sing Sing Sing Sing Sing Sing Sing	Isolation group	IIIa (175 ≤ CTI < 400)
Colour (insert)GreyMaterial (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 substancesYesSpecifications and approvalsRe26Specifications and approvalsEC 60603-13U / CSAJul 1977 ECBT2.E102079 CSA-C222 No. 182.3 ECBT8.E102079Railway classification50Not containedSingerPackaging size50Packaging size50Not containesFallCommercial dataFallRecurs LationSingerSpecifications60StatusSingerCommercial dataFallControy of originFallRever statiff number6366990GINSingerGTINSingerCommercial ContainesSingerStatus Statiff number6366990Contro of oniginFallouostatiff numberStatus Statiff numberSingerSingerSingerSingerSingerStatus Statiff numberSingerSingerSingerStatus Statiff numberSingerStatus Statiff numberSingerSingerSinger </td <td>Material properties</td> <td></td>	Material properties	
Material (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 containedReach SVHC substancesNot containedCalifornia Proposition 65 substancesYesCalifornia Proposition 65 substancesReachSpecifications and approvalsREC 60603-13UL / CSAEC 60603-13UL / CSASolPackaging sizeSolPackaging sizeSolNot containedFalgNutweight7.46 gCountry of originRomaniaEuropean customs tariff numberSta66990GTINSta1140035232	Material (insert)	Thermoplastic resin (PBT)
Surface (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 substancesYesCalifornia Proposition 65 substancesRe26Specifications and approvalsRe26SpecificationsUL 1977 ECBT2.E102079 CSA-C222.No. 182.3 ECBT8.E102079Rakaya classificationSilaPackaging sizeSoPackaging sizeSoNot weight7.46 gCountry of originRomaniaEuropean customs tariff numberSi68990GTINSystems	Colour (insert)	Grey
Surface (contacts)Sn over Ni Termination sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNot containedREACH ANNEX XIV substancesNot containedCalifornia Proposition 65 substancesYesCalifornia Proposition 65 substancesR26Specifications and approvalsR26SpecificationsIEC 60603-13U. / CSAU. 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Ralway classification50Packaging size50Not weight7.46 gCountry of originRomaniaEuropean customs tariff number8366990GTIN5365990GTIN531340035232	Material (contacts)	Copper alloy
RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVI substancesNot containedREACH ANNEX XIV substancesNot containedREACH SVHC substancesNot containedCalifornia Proposition 55 substancesYesCalifornia Proposition 55 substancesReadement StatusSpecifications and approvalsRe26SpecificationsIEC 60603-13U L OSAU. 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Raiway classification5//// 3Packaging size50Not weight7.46 gContry of originRomaniaEuropean customs tariff numberSi368990GTIN5/13140035232	Surface (contacts)	
ELV statuscompliantChina RoHSeREACH Annex XVII substancesNot containedREACH ANNEX XIV substancesNot containedREACH SVHC substancesNot containedCalifornia Proposition 65 substancesYesCalifornia Proposition 65 substancesReademain frictional Proposition 65 substancesSpecifications and approvalsRe26SpecificationsIEC 60603-13UL / CSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Raiway classificationF3/3Packaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff numberSi366990GTIN5/13140035232	Material flammability class acc. to UL 94	V-0
China RoHSeREACH Annex XVII substancesNot containedREACH ANNEX XIV substancesNot containedREACH SVHC substancesNot containedCalifornia Proposition 65 substancesYesCalifornia Proposition 65 substancesAntimony trioxide NickelRequirement set with Hazard LevelsR26SpecificationsIEC 60603-13UL / CSAU1 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Raiway classificationF3/l3Packaging size50Not weight7.46 gCountry of originRomaniaEuropean customs taiff number8366990GTIN57.1140035232	RoHS	compliant
REACH Annex XVII substancesNot containedREACH ANNEX XIV substancesNot containedREACH SVHC substancesNot containedCalifornia Proposition 65 substancesYesCalifornia Proposition 65 substancesAntimony trioxide NickelRequirement set with Hazard LevelsR26Specifications and approvalsIEC 60603-13UL / CSAIEC 60603-13valway classificationF3/13Packaging size50Not containedSofesopoNet weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN7.13140035232	ELV status	compliant
REACH ANNEX XIV substancesNot containedREACH SVHC substancesNot containedCalifornia Proposition 65 substancesYesCalifornia Proposition 65 substancesAntimony trioxide NickelRequirement set with Hazard LevelsR26Specifications and approvalsEC 60603-13UL / CSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Railway classification50Packaging size50Not containedCountry of originRet weight7.46 gCurropean customs tariff number85366990GTIN7.13140035232	China RoHS	e
REACH SVHC substancesNot containedCalifornia Proposition 65 substancesYesCalifornia Proposition 65 substancesAntimony trioxide NickelRequirement set with Hazard LevelsR26Specifications and approvalsSpecificationsIEC 60603-13UL / CSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Railway classificationF3/l3Packaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	REACH Annex XVII substances	Not contained
California Proposition 65 substancesYesCalifornia Proposition 65 substancesAntimony trioxide NickelRequirement set with Hazard LevelsR26Specifications and approvalsEC 60603-13UL / CSAIEC 60603-13UL / CSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Railway classificationF3/3Packaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	REACH ANNEX XIV substances	Not contained
California Proposition 65 substancesAntimony trioxide NickelRequirement set with Hazard LevelsR26Specifications and approvalsSpecifications and approvalsUL / CSAIEC 60603-13UL / OSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Railway classificationF3/13Commercial dataSoPackaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTINS713140035232	REACH SVHC substances	Not contained
California Proposition os substancesNickelRequirement set with Hazard LevelsR26Specifications and approvalsSpecifications and approvalsUL / CSAIEC 60603-13UL / CSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Railway classificationF3/13Commercial data50Packaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	California Proposition 65 substances	Yes
Specifications and approvalsSpecificationsIEC 60603-13UL / CSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Railway classificationF3/13Commercial dataPackaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	California Proposition 65 substances	
SpecificationsIEC 60603-13UL / CSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Railway classificationF3//3Commercial dataPackaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	Requirement set with Hazard Levels	R26
UL / CSAUL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079Railway classificationF3/I3Packaging sizeS0Packaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	Specifications and approvals	
DL / CSACSA-C22.2 No. 182.3 ECBT8.E102079Railway classificationF3/I3Commercial dataPackaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	Specifications	IEC 60603-13
Commercial data Packaging size 50 Net weight 7.46 g Country of origin Romania European customs tariff number 85366990 GTIN 5713140035232	UL / CSA	
Packaging size50Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	Railway classification	F3/I3
Net weight7.46 gCountry of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	Commercial data	
Country of originRomaniaEuropean customs tariff number85366990GTIN5713140035232	Packaging size	50
European customs tariff number85366990GTIN5713140035232	Net weight	7.46 g
GTIN 5713140035232	Country of origin	Romania
	European customs tariff number	85366990
	GTIN	5713140035232
eCl@ss 27460202 PCB connector (conductor connection)	eCl@ss	27460202 PCB connector (conductor connection)

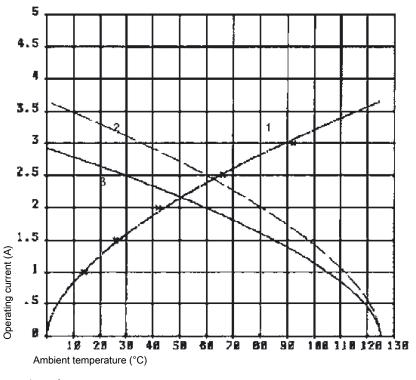
Page 2 / 3 | Creation date 2022-09-01 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity 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 18 560 7803 SEK-18 SV FE TYPA 60P 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%

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