



# SEK 18 female connector IDC



### General information

Design	IEC 60603-13		
No. of contacts	6, 10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60, 64		
Contact spacing	on PCB side 2,54 mm; on cable side 1,27 mm		
Test voltage Ur.m.s	1 kV		
Working voltage	320 V for pollution degree 1		
Contact resistance	max. 20mOhm		
Insulation resistance	min. 10 <sup>9</sup> Ohm		
Working current	1 A		
Temperature range	-55°C ... +125°C		
Termination technology	IDC flat cable, 1,27 mm pitch		
Insertion and withdrawal forces	6-pole max. 12N for PL1-2 / 18N for PL3	; 30-pole max. 60N for PL1-2 / 90N for PL3	
	10-pole max. 20N for PL1-2 / 30N for PL3	; 34-pole max. 68N for PL1-2 / 102N for PL3	
	14-pole max. 28N for PL1-2 / 42 for PL3	; 40-pole max. 80N for PL1-2 / 120N for PL3	
	16-pole max. 32N for PL1-2 / 48N for PL3	; 50-pole max. 100N for PL1-2 / 150N for PL3	
	20-pole max. 40N for PL1-2 / 60N for PL3	; 60-pole max. 120N for PL1-2 / 180N for PL3	
	24-pole max. 48N for PL1-2 / 72N for PL3	; 64-pole max. 128N for PL1-2 / 192N for PL3	
Mating cycles	26-pole max. 52N for PL1-2 / 78N for PL3		
	S4 surface treatment	min. 0,76 µm Au	
	PL 1 acc. to IEC 60603-13	500 mating cycles	10 days gas test
	PL 2 acc. to IEC 60603-13	250 mating cycles	4 days gas test
PL 3 acc. to IEC 60603-13	50 mating cycles	No gas test	
UL file	E 102079		
RoHS - compliant	Yes		
Leadfree	Yes		
Hot plugging	No		

### Insulator material

Material	PBT (thermoplastics, glass fiber reinforcement 30%)		
Color	Black (RAL 7001) or grey (RAL 7032)		
UL classification	UL94-V0		
Material group acc. IEC 60664-1	IIIa (175 ≤ CTI < 400)		
NF F 16-101 classification	I3,F3		

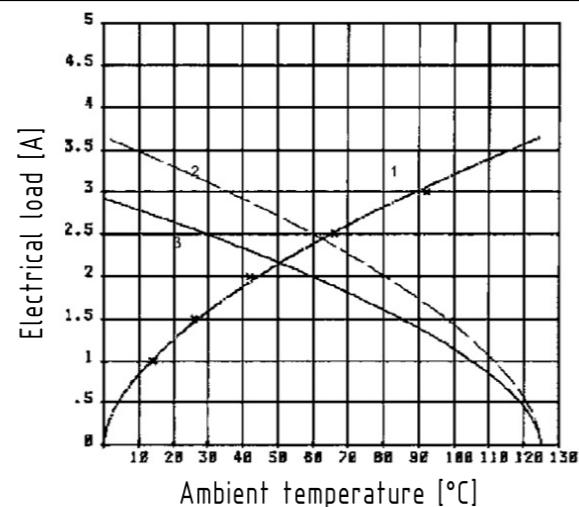
### Contact material

Contact material	Copper alloy		
Plating termination zone	Sn over Ni		
Plating contact sliding side	Au over Ni		

### Derating diagram acc to IEC 60512-2 (Current carrying capacity)

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given without exceeding the maximum temperature. Control and test procedures according to DIN IEC 60512.

- 1) Temperature rise
- 2) Derating
- 3) Derating curve at I max x 0.8(IEC 60512-2)



### Cable information

Wire material	Cu, tinned
Gauge	AWG 26/7 (0,141mm <sup>2</sup> ) - 28/7 (0,089 mm <sup>2</sup> )
Insulation material	PVC or non-halogenated flame retardant Polyolefin (only for halogen free flat cable)

	All Dimensions in mm Original Size DIN A3	Scale 1:1	Free size tol.	Ref. Sub. DS 09182100600 / 500000099698 / 2016-04-05
	All rights reserved Department EC PD - DE	Created by STORCK	Inspected by LEHNERT	Standardisation HOFFMANN
HARTING Electronics GmbH D-32339 Espelkamp		Title SEK 18 female connector IDC	Date 2016-09-05	State Final Release
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