SEK 18 female connector IDC

RoHS compliant

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. 10^9Ohm		
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	
	26-pole max. 52N for PL1-2 / 78N for PL3		
Mating cycles	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

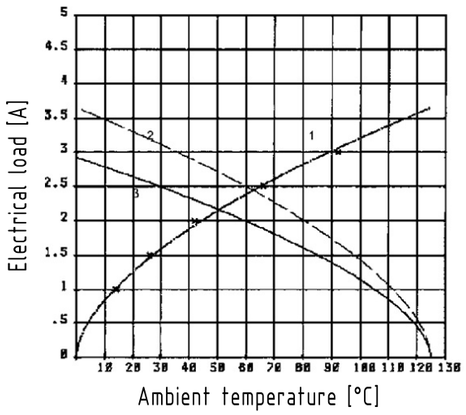
Contact material

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 (0,141mm²) - 28/7 (0,089 mm²)
Insulation material	PVC or non-halogenated flame retardant Polyolefin (only for halogen free flat cable)

All Dimensions in mm
Original Size DIN A3

Scale	Free size tol.	Ref.
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