



SEK 18 male Low profile solder pins



General information

Design	IEC 60603-13		
No. of contacts	6,10,14,16,20,26,30,34,40,50,60,64		
Contact spacing	2,54 mm x 2,54 mm		
Test voltage Ur.m.s	1 kV		
Working voltage	500 V for pollution degree 1		
Working current acc. to IEC 60512-2	See derating diagram		
Contact resistance	max. 20mOhm		
Insulation resistance	min. 10 ⁹ Ohm		
Temperature range	-55°C ... +125°C		
Termination technology	solder		
Clearance & creepage distance	min. 0,5 mm clearance min. 0,56 creepage		
Insertion and withdrawal forces	6-poles max. 12N for PL1-2 / 18N for PL3	; 26-poles max. 52N for PL1-2 / 78N for PL3	
	10-poles max. 20N for PL1-2 / 30N for PL3	; 34-poles max. 68N for PL1-2 / 102N for PL3	
	14-poles max. 28N for PL1-2 / 42 for PL3	; 40-poles max. 80N for PL1-2 / 120N for PL3	
	16-poles max. 32N for PL1-2 / 48N for PL3	; 50-poles max. 100N for PL1-2 / 150N for PL3	
	20-poles max. 40N for PL1-2 / 60N for PL3	; 60-poles max. 120N for PL1-2 / 180N for PL3	
Mating cycles	S4 surface treatment	0,76 µm Au or PdNi equivalent	
	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		

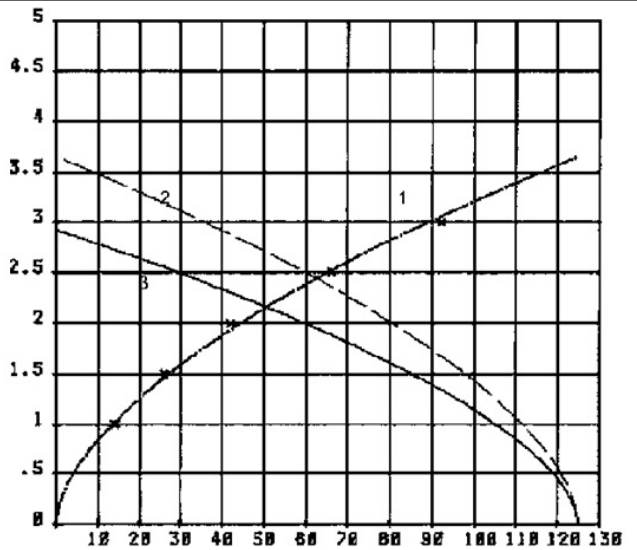
Contact material

Contact material	Copper alloy		
Plating termination zone	Sn over Ni		
Plating contact sliding side	Au or PdNi according to Performance level		

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)



	All Dimensions in mm Original Size DIN A3	Scale 1:1	Free size tol.	Ref.
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