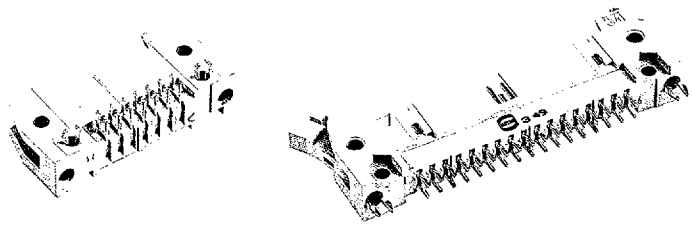


Number of contacts

6-64



Male header with solder pins and P.C.B. retention clips

Identification/pins	No. of contacts	Part No.			
		Without levers	With short levers	With long levers	
Male header with angled solder pins and P.C.B. retention clips Length: 2.9 mm for 1.6 mm PCB thickness	6	09 18 506 □ 973*	09 18 506 □ 963*	09 18 506 □ 953*	
	10	09 18 510 □ 973*	09 18 510 □ 963*	09 18 510 □ 953*	
	14	09 18 514 □ 973*	98 18 514 □ 963*	09 18 514 □ 953*	
	16	09 18 516 □ 973*	09 18 516 □ 963*	09 18 516 □ 953*	
	20	09 18 520 □ 973*	09 18 520 □ 963*	09 18 520 □ 953*	
	26	09 18 526 □ 973*	09 18 526 □ 963*	09 18 526 □ 953*	
	34	09 18 534 □ 973*	09 18 534 □ 963*	09 18 534 □ 953*	
	40	09 18 540 □ 973*	09 18 540 □ 963*	09 18 540 □ 953*	
	50	09 18 550 □ 973*	09 18 550 □ 963*	09 18 550 □ 953*	
	60	09 18 560 □ 973*	09 18 560 □ 963*	09 18 560 □ 953*	
	64	09 18 564 □ 973*	09 18 564 □ 963*	09 18 564 □ 953*	
	Male header with straight solder pins and P.C.B. retention clips Length: 2.9 mm for 1.6 mm PCB thickness	6	09 18 506 □ 974*	09 18 506 □ 964*	09 18 506 □ 954*
		10	09 18 510 □ 974*	09 18 510 □ 964*	09 18 510 □ 954*
14		09 18 514 □ 974*	98 18 514 □ 964*	09 18 514 □ 954*	
16		09 18 516 □ 974*	09 18 516 □ 964*	09 18 516 □ 954*	
20		09 18 520 □ 974*	09 18 520 □ 964*	09 18 520 □ 954*	
26		09 18 526 □ 974*	09 18 526 □ 964*	09 18 526 □ 954*	
34		09 18 534 □ 974*	09 18 534 □ 964*	09 18 534 □ 954*	
40		09 18 540 □ 974*	09 18 540 □ 964*	09 18 540 □ 954*	
50		09 18 550 □ 974*	09 18 550 □ 964*	09 18 550 □ 954*	
60		09 18 560 □ 974*	09 18 560 □ 964*	09 18 560 □ 954*	
64	09 18 564 □ 974*	09 18 564 □ 964*	09 18 564 □ 954*		

To hold the connector on the PCB before the soldering process, two retention clips have been added on the male header with angled solder pins.

To hold the connector on the PCB before the soldering process, two retention clips have been added on the male header with straight solder pins.

For Performance Level 3 please specify digit 7
 For Performance Level 2 please specify digit 6
 > 0.76 µm Au (30 µinch) on request 5

Identification/pins	No. of contacts	Part No.	Drawing	Dimensions in mm
Male low profile header with angled solder pins for prelocking on P.C.B. 1.6 mm Length: 2.9 mm	6-64	on request		Max. 6 specially formed soldered pins provide retention of the male header before soldering process

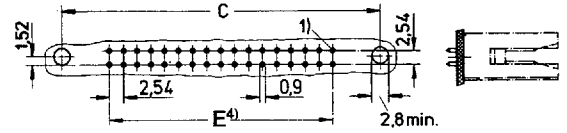
* Not normally kept in stock

Drawing

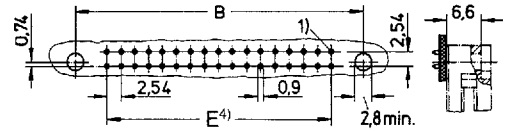
Dimensions in mm

No. of contacts	A	B	C	D	E	F	G
6	26.9	16.76	22.86	12.45	2.54 x 2 = 5.08	36.9	40.3
10	32.0	21.84	27.94	17.53	2.54 x 4 = 10.16	42.0	45.4
14	37.1	26.92	33.02	22.61	2.54 x 6 = 15.24	47.1	50.4
16	39.6	29.46	35.56	25.15	2.54 x 7 = 17.78	49.6	53.0
20	44.7	34.54	40.64	30.23	2.54 x 9 = 22.86	54.7	58.1
26	52.3	42.16	48.26	37.85	2.54 x 12 = 30.48	62.3	65.7
34	62.5	52.32	58.42	48.01	2.54 x 16 = 40.64	72.5	75.8
40	70.1	59.94	66.04	55.63	2.54 x 19 = 48.26	80.1	83.5
50	82.8	72.64	78.74	68.33	2.54 x 24 = 60.96	92.8	96.2
60	95.5	85.34	91.44	81.03	2.54 x 29 = 73.66	105.5	108.9
64	100.6	90.42	96.52	86.11	2.54 x 31 = 78.74	110.6	113.9

P.C. board layout straight version

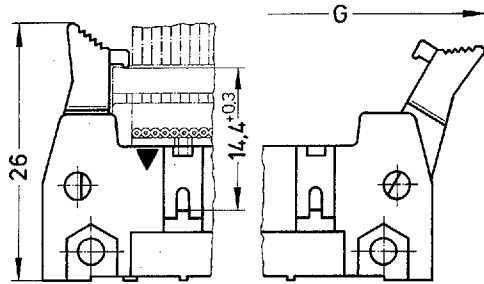


P.C. board layout angled version



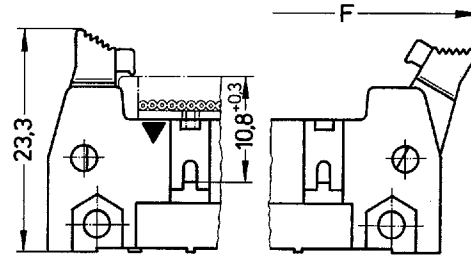
Long levers

for use with female connector with strain relief clamp

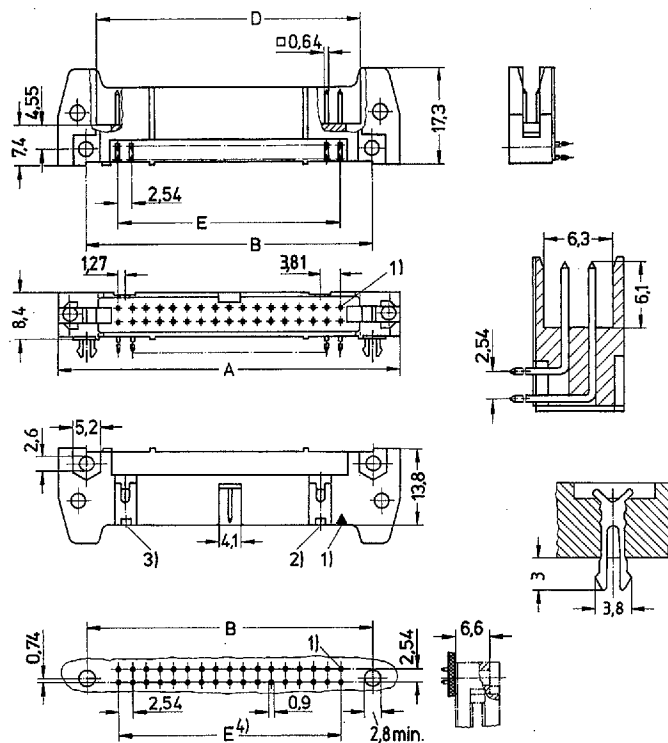


Short levers

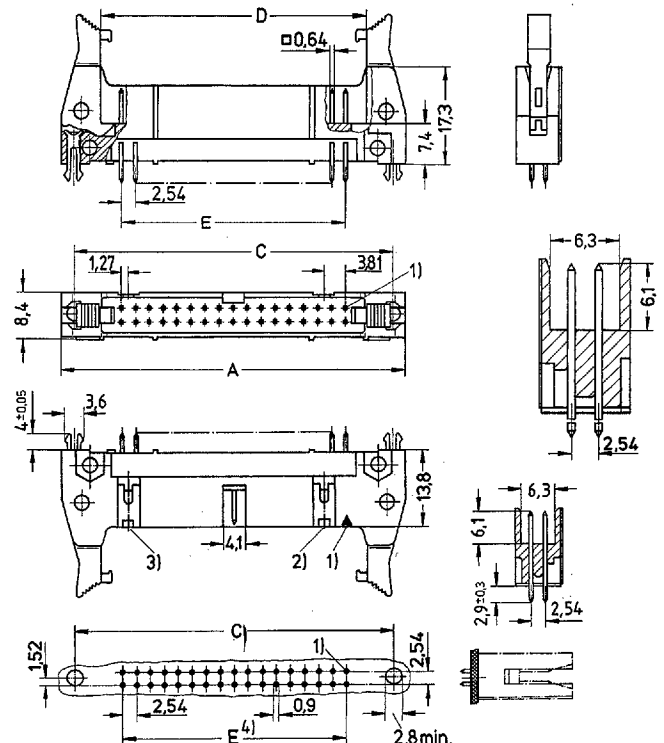
for use with female connector without strain relief clamp



Angled versions with clips



Straight versions with clips



1) Contact number 1
2) No polarization slot for 6, 10 or 14 way male header

3) No polarization slot for 6 way male header
4) Pitch tolerance: ± 0.1

Technical Characteristics



Number of contacts 6, 9, 10, 14, 15, 16, 20, 24, 25, 26, 28
34, 37, 40, 50, 60, 64
Series SEK 18
UL/CSA-approved

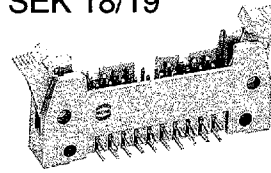
SEK 18



Pitch

Male header 2.54 mm
Insulation displacement contacts on the flat cable connector 1.27 mm

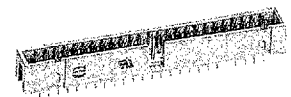
SEK 18/19



Working current 1 A

Test voltage $U_{r.m.s.}$ 1 kV
SEK 17, SEK 19 : 500 V

SEK 18/19



Contact resistance $\leq 20 \text{ m}\Omega$

Insulation resistance $\geq 10^9 \Omega$

Temperature range -55 °C ... + 125 °C
-55 °C ... + 240 °C (high temperature version)
-55 °C ... + 105 °C (press-in version)

SEK 18



The maximum temperature includes heating of contacts and ambient temperature.

Terminations

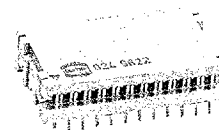
SEK 18 female connector Insulation displacement connection
Wire AWG 28 (7 x 0.127) 0.09 mm²

SEK 18/19 male header Wrap posts 0.6 x 0.6 mm
Diagonal 0.79 - 0.86 mm
Solder pins for P.C.B. hole \varnothing 0.9 mm,
DIN IEC 52 141

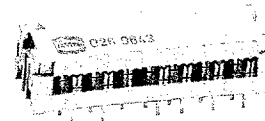
Compliant press-in termination for \varnothing 0.94 - 1.06 mm

SEK 17 DIP connector and SEK 18/19 transition connectors Insulation displacement connection
Wire AWG 28 (7 x 0.127) 0.09 mm²
Solder pins 0.45 x 0.35 mm for P.C.B. hole 0.8 mm

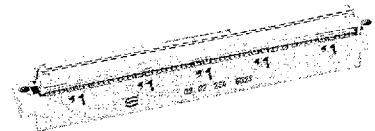
Gds A-B · Gds A-C D-Sub Insulation displacement connection
Wire AWG 28 (7 x 0.127) 0.09 mm²



SEK 17



SEK 19



Gds A-B

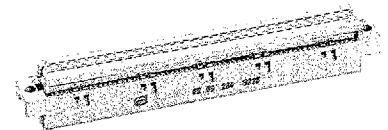
Mouldings Thermoplastic resin (PBTP)
UL 94-V O
PCT UL 94-V O (high temperature version)

Contact surface

SEK 18/19 female and male connectors Contact zone: gold-plated according to Performance Level¹⁾
Termination zone: tinned

SEK 17 DIP connector and SEK 18/19 transition connector Tinned

Gds A-B · Gds A-C D-Sub Contact zone: gold-plated according to Performance Level¹⁾
Termination zone: tinned



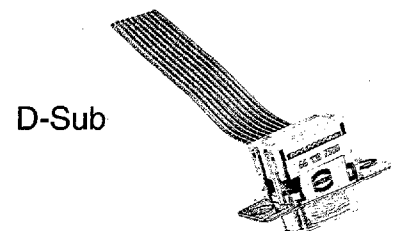
Gds A-C

¹⁾ Performance Level 3 as per DIN 41 651, Part 2
50 mating cycles · No gas test

¹⁾ Performance Level 2 as per DIN 41 651, Part 2
200 mating cycles · 4 days gas test

¹⁾ Performance Level as per MIL-C 83 503
> 0.76 μm Au (30 μinch) on request

Different contact surfaces on request



D-Sub