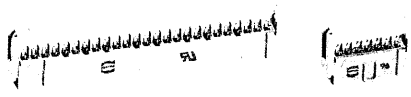
Technical Characteristics

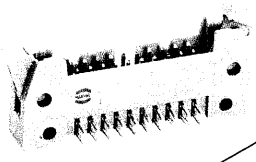
Number of contacts	6, 9, 10, 14, 15, 16, 20, 24, 25, 26, 28 34, 37, 40, 50, 60, 64 Series SEK 18 UL/CSA-approved
Pitch	
Male header	2.54 mm
Insulation displacement contacts on the flat cable connector	1.27 mm
Working current	1 A
Test voltage $U_{r.m.s.}$	1 kV SEK 17, SEK 19 : 500 V
Contact resistance	≤ 20 mΩ
Insulation resistance	≥ 10^9 Ω
Temperature range	–55 °C ... + 125 °C –55 °C ... + 240 °C (high temperature version) –55 °C ... + 105 °C (press-in version)

The maximum temperature includes heating of contacts and ambient temperature.

SEK 18

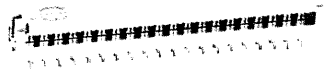


SEK 18/19



SEK 18/19

SEK 18

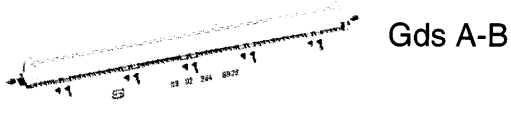


Terminations

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 Ø 0.9 mm, DIN IEC 52 141
	Compliant press-in termination for Ø 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

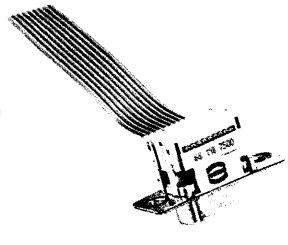
SEK 19



Gds A-B

Gds A-C

D-Sub



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 Level[1]
	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 Level[1]
	Termination zone:	tinned

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

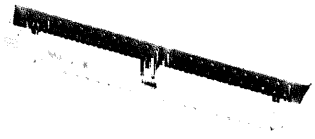
[1] Performance Level 2 as per DIN 41 651, Part 2
200 mating cycles · 4 days gas test

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

Different contact surfaces on request

Number of contacts

6–64



Low-profile male header, straight solder pins

Male header with straight solder pins

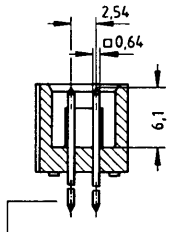
Length: 2.9 mm

No. of contacts	Part No.
6	09 18 506 ⌴ 324
10	09 18 510 ⌴ 324
14	09 18 514 ⌴ 324
16	09 18 516 ⌴ 324
20	09 18 520 ⌴ 324
26	09 18 526 ⌴ 324
34	09 18 534 ⌴ 324
40	09 18 540 ⌴ 324
50	09 18 550 ⌴ 324
60	09 18 560 ⌴ 324
64	09 18 564 ⌴ 324

Drawing

Dimensions in mm

No. of contacts	A	B	E
6	15.2	12.78	2.54 x 2 = 5.08
10	20.3	17.86	2.54 x 4 = 10.16
14	25.4	22.94	2.54 x 6 = 15.24
16	27.9	25.48	2.54 x 7 = 17.78
20	33.0	30.56	2.54 x 9 = 22.86
26	40.6	38.18	2.54 x 12 = 30.48
34	50.8	48.34	2.54 x 16 = 40.64
40	58.4	55.96	2.54 x 19 = 48.26
50	71.3	68.66	2.54 x 24 = 60.96
60	84.0	81.36	2.54 x 29 = 73.66
64	89.1	86.44	2.54 x 31 = 78.74



a) Solder pins for 0.9 mm dia. hole

b) Press-in pins for 1.0 mm dia. hole

Male header with straight solder pins

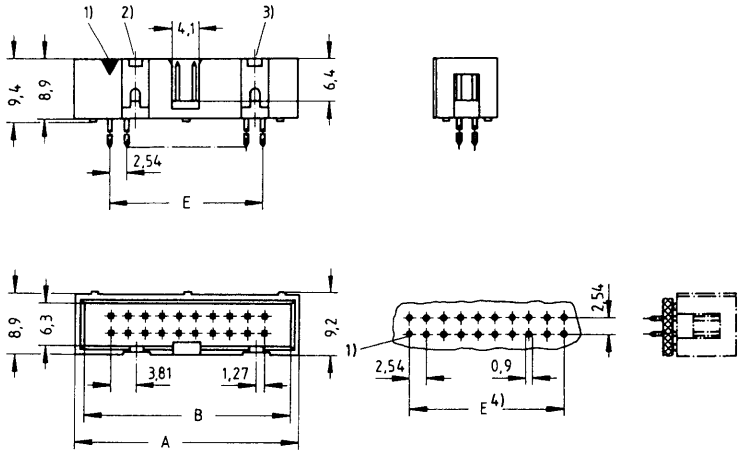
Length: 2.9 mm

High temperature version

New

This version is compatible with surface mount assembly. They can withstand vapour phase and infra red reflow soldering temperatures.

6	09 19 506 ⌴ 324*
10	09 19 510 ⌴ 324*
14	09 19 514 ⌴ 324*
16	09 19 516 ⌴ 324*
20	09 19 520 ⌴ 324*
26	09 19 526 ⌴ 324*
34	09 19 534 ⌴ 324*
40	09 19 540 ⌴ 324*
50	09 19 550 ⌴ 324*
60	09 19 560 ⌴ 324*
64	09 19 564 ⌴ 324*



Male header with straight solder pins

Length: 4.5 mm

6	09 18 506 ⌴ 322*
10	09 18 510 ⌴ 322*
14	09 18 514 ⌴ 322*
16	09 18 516 ⌴ 322*
20	09 18 520 ⌴ 322*
26	09 18 526 ⌴ 322*
34	09 18 534 ⌴ 322*
40	09 18 540 ⌴ 322*
50	09 18 550 ⌴ 322*
60	09 18 560 ⌴ 322*
64	09 18 564 ⌴ 322*

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

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⌴ *

* Not normally kept in stock

For accessories see page 19