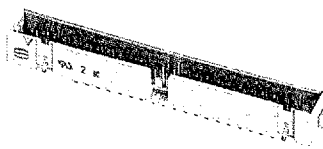


# SEK 18

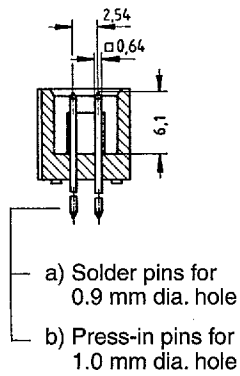
Number of contacts

# 6-64



## Low-profile male header, straight solder pins

| Identification/pins                                     | No. of contacts | Part No.        | Drawing | Dimensions in mm |       |                   |
|---|-----------------|-----------------|---------|------------------|-------|-------------------|
|   |                 |                 |         | No. of contacts  | A     | B                 |
| Male header with straight solder pins<br>Length: 2.9 mm | 6               | 09 18 506 □ 324 | 6       | 15.2             | 12.78 | 2.54 x 2 = 5.08   |
|   | 10              | 09 18 510 □ 324 | 10      | 20.3             | 17.86 | 2.54 x 4 = 10.16  |
|   | 14              | 09 18 514 □ 324 | 14      | 25.4             | 22.94 | 2.54 x 6 = 15.24  |
|   | 16              | 09 18 516 □ 324 | 16      | 27.9             | 25.48 | 2.54 x 7 = 17.78  |
|   | 20              | 09 18 520 □ 324 | 20      | 33.0             | 30.56 | 2.54 x 9 = 22.86  |
|   | 26              | 09 18 526 □ 324 | 26      | 40.6             | 38.18 | 2.54 x 12 = 30.48 |
|   | 34              | 09 18 534 □ 324 | 34      | 50.8             | 48.34 | 2.54 x 16 = 40.64 |
|   | 40              | 09 18 540 □ 324 | 40      | 58.4             | 55.96 | 2.54 x 19 = 48.26 |
|   | 50              | 09 18 550 □ 324 | 50      | 71.3             | 68.66 | 2.54 x 24 = 60.96 |
|   | 60              | 09 18 560 □ 324 | 60      | 84.0             | 81.36 | 2.54 x 29 = 73.66 |
|   | 64              | 09 18 564 □ 324 | 64      | 89.1             | 86.44 | 2.54 x 31 = 78.74 |



## Male header with straight solder pins

Length: 2.9 mm

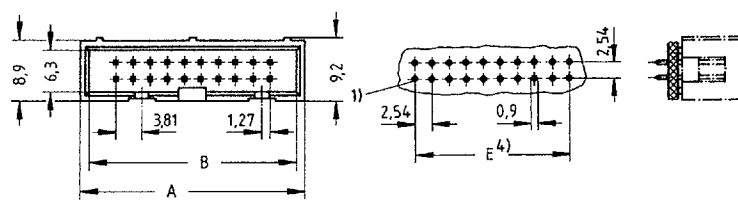
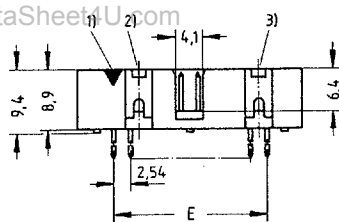
High temperature version

**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* |

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## 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

# 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

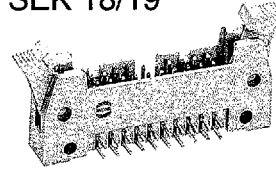


## Pitch

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)

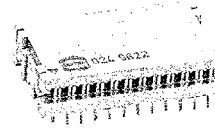
SEK 18



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 mm<sup>2</sup>



SEK 17

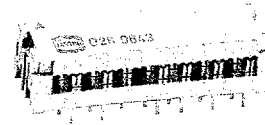
SEK 18/19 male header Wrap posts 0.6 x 0.6 mm  
Diagonal 0.79 - 0.86 mm

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 mm<sup>2</sup>

Solder pins 0.45 x 0.35 mm  
for P.C.B. hole 0.8 mm



SEK 19

Gds A-B · Gds A-C  
D-Sub Insulation displacement connection  
Wire AWG 28 (7 x 0.127) 0.09 mm<sup>2</sup>



Gds A-B

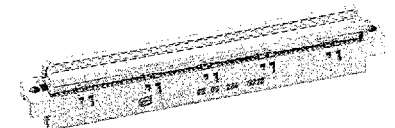
**Mouldings** Thermoplastic resin (PBTP)  
UL 94-V O  
PCT UL 94-V O (high temperature version)

## Contact surface

SEK 18/19 female  
and male connectors Contact zone: gold-plated according  
to Performance Level<sup>1)</sup>  
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<sup>1)</sup>  
Termination zone: tinned



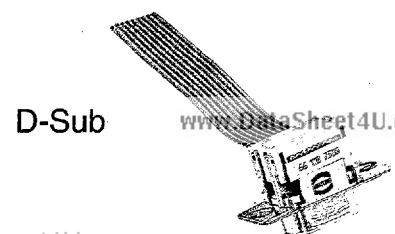
Gds A-C

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

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

<sup>1)</sup> Performance Level as per MIL-C 83 503  
> 0.76  $\mu\text{m}$  Au (30  $\mu\text{inch}$ ) on request

Different contact surfaces on request



D-Sub