

Number of contacts 20-30

Contact spacing (mm) 2.54

Working current
see current carrying
capacity chart 2 A max.

Clearance ≥ 1.2 mm

Creepage ≥ 1.2 mm

Working voltage
The working voltage also depends
on the clearance and creepage
dimensions of the pcb itself,
and the associated wiring according to the safety regulations
of the equipment

Test voltage $U_{r.m.s.}$ 1 kV

Contact resistance ≤ 20 m Ω

Insulation resistance $\geq 10^{12}$ Ω

Temperature range – 55 °C ... + 125 °C

The higher temperature limit
includes the local ambient
and heating effects of the
contacts under load – 40 °C ... + 105 °C
for press-in connector

During reflow soldering max. + 240 °C for 15 s
for SMC connectors

Electrical termination

Solder pins for pcb connections
 $\varnothing 1.0 \pm 0.1$ mm
according to IEC 60 326-3
wrap posts 0.6 x 0.6 mm
diagonal 0.79-0.86 mm

Compliant press-in
terminations

PCB thickness ≥ 1.6 mm

Recommended PCB holes
for press-in technology in acc. to EN 60 352-5

Insertion and withdrawal force 20way ≤ 20 N
30way ≤ 30 N

Materials

Mouldings Thermoplastic resin,
glass-fibre filled, UL 94-V0
Contacts Copper alloy

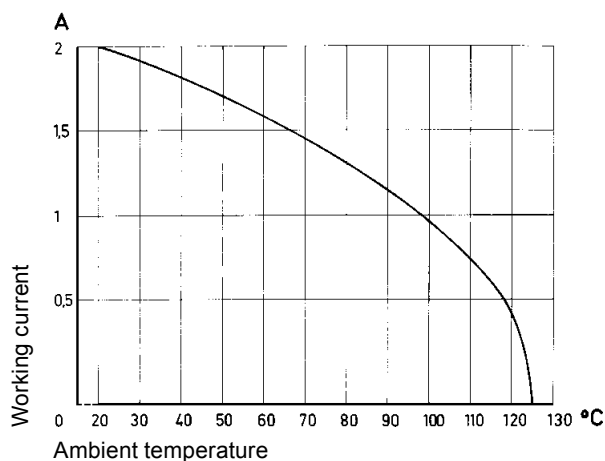
Contact surface

Contact zone Selectively plated according to
performance level

Current carrying capacity

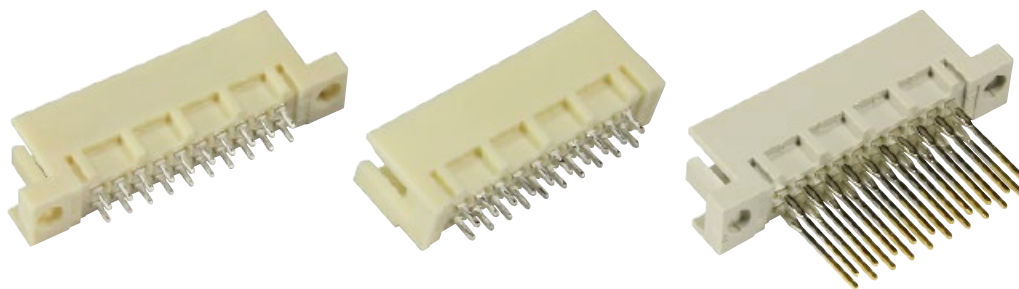
The current carrying capacity is limited by maximum temperature
of materials for inserts and contacts including terminals. The cur-
rent capacity curve is valid for continuous, non interrupted current
loaded contacts of connectors when simultaneous power on all
contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60512


















Number of contacts

20



Male connectors

Identification	Number of contacts	Contact arrangement	Part No. 3	Performance levels according to IEC 60603-2.	
				2	1
Male connector with solder pins 2.5 mm			Performance level 3 on request		Performance level 1 on request
	with fixing flange			09 75 120 6902	
	with fixing flange, SMC			09 75 120 6519 ^{d)}	
	without fixing flange			09 75 120 6592	
	without fixing flange, SMC			09 75 120 6569 ^{d)}	
Male connector with solder pins 4.0 mm					
	with fixing flange			09 75 120 6903	
	with fixing flange, SMC			09 75 120 6520 ^{d)}	
	without fixing flange			09 75 120 6593	
	without fixing flange, SMC			09 75 120 6570 ^{d)}	
Male connector with solder pins 13 mm					
	with fixing flange			09 75 120 6577	
	with fixing flange, SMC			09 75 120 6521 ^{d)}	
Male connector with wrap posts ¹⁾ 13 mm					
with fixing flange	20			09 75 120 6907	
Male connector with press-in pins 5.0 mm					
	with fixing flange			09 75 120 6904	
	without fixing flange			09 75 120 6504	
Male connector with press-in pins 13 mm					
	with fixing flange			09 75 120 6985 09 75 120 6974 [•]	
	without fixing flange			09 75 120 6574 [•]	

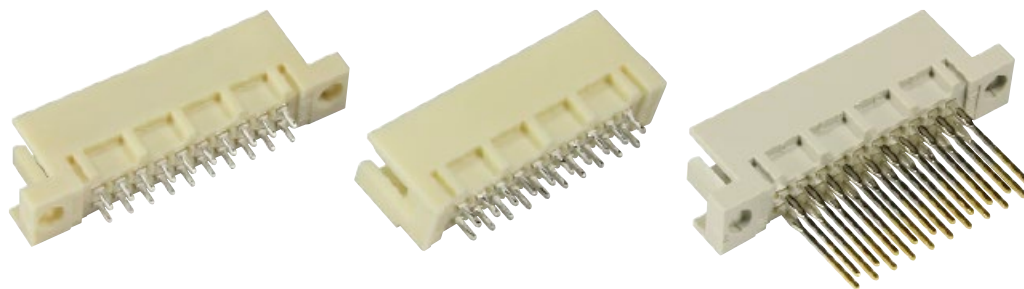
• Wrap posts for interfacing selectively gold plated (performance level 3)

¹⁾ To be used only for wire wrap termination

^{d)} CTI > 400

Number of contacts

20



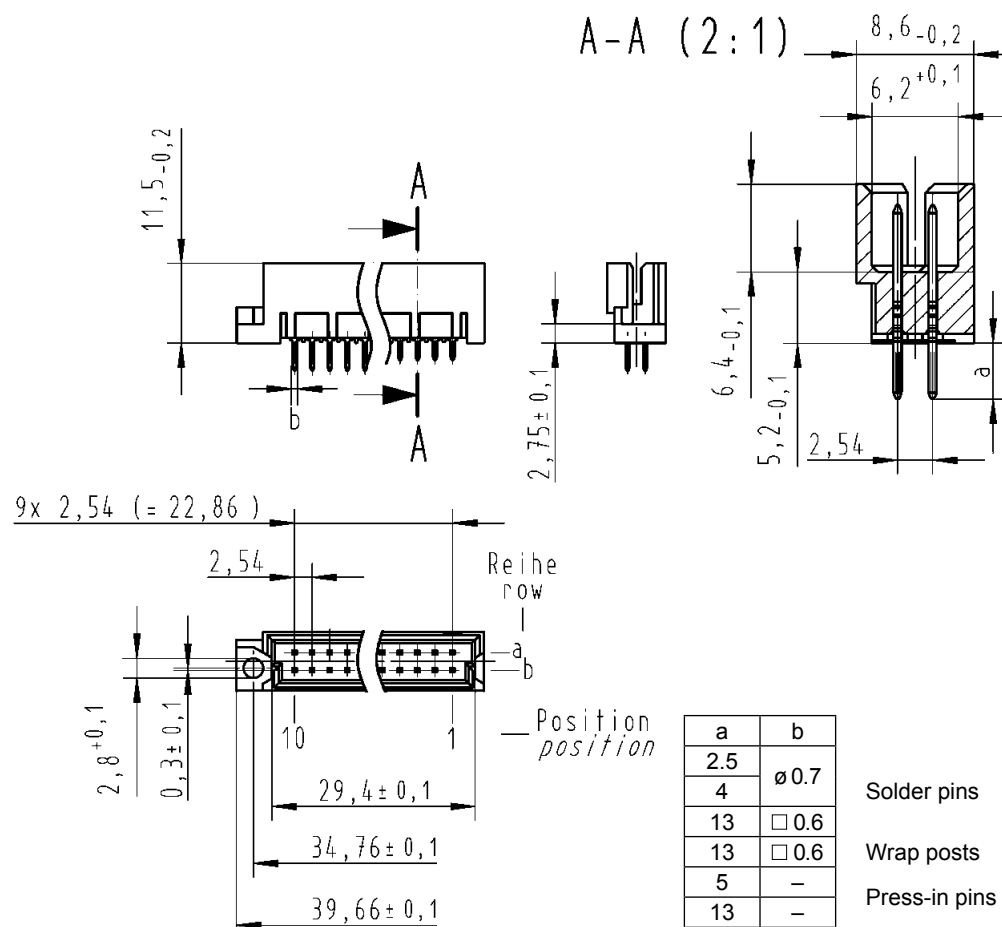
Male connectors

Identification

Drawing

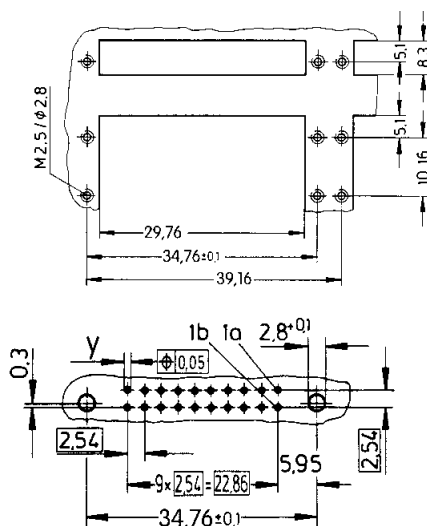
Dimensions in mm

Dimensions



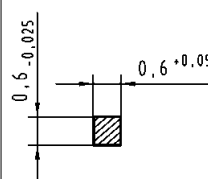
Panel cut out

Board drillings
Mounting side



	Y
Solder	1 ± 0.1

Cross section
of solder terminations

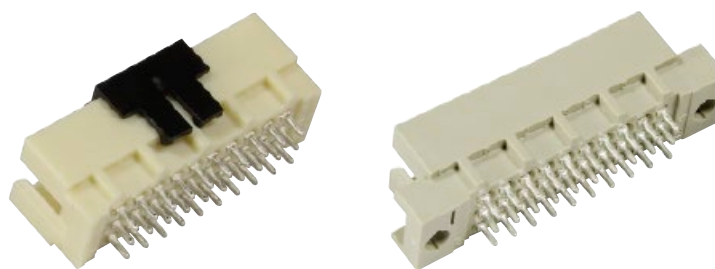


Cross area (A) of contacts
row a, b, c: A = 0.35 - 0.39 mm²





















Other contact arrangements as well with lagging/leading pins on request

Number of contacts

30, 20



Male connectors

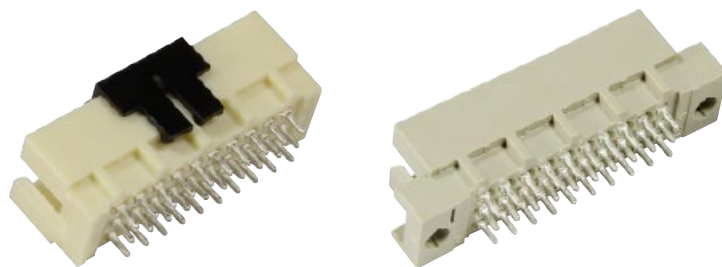
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Male connector with solder pins 4.0 mm	30			09 29 130 6903	
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	30			09 29 130 6520 ^{d)}	
	30			09 29 130 6593	
	30			09 29 130 6570 ^{d)}	
Male connector with solder pins 13 mm	30			09 29 130 6577	
	20			09 29 120 6577	
	30			09 29 130 6521 ^{d)}	
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	20			09 29 120 6904	
	30			09 29 130 6504	
Male connector with press-in pins 13 mm	30			09 29 130 6985 09 29 130 6974•	
	20			09 29 120 6974•	
	30			09 29 130 6574•	

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Number of contacts

30, 20



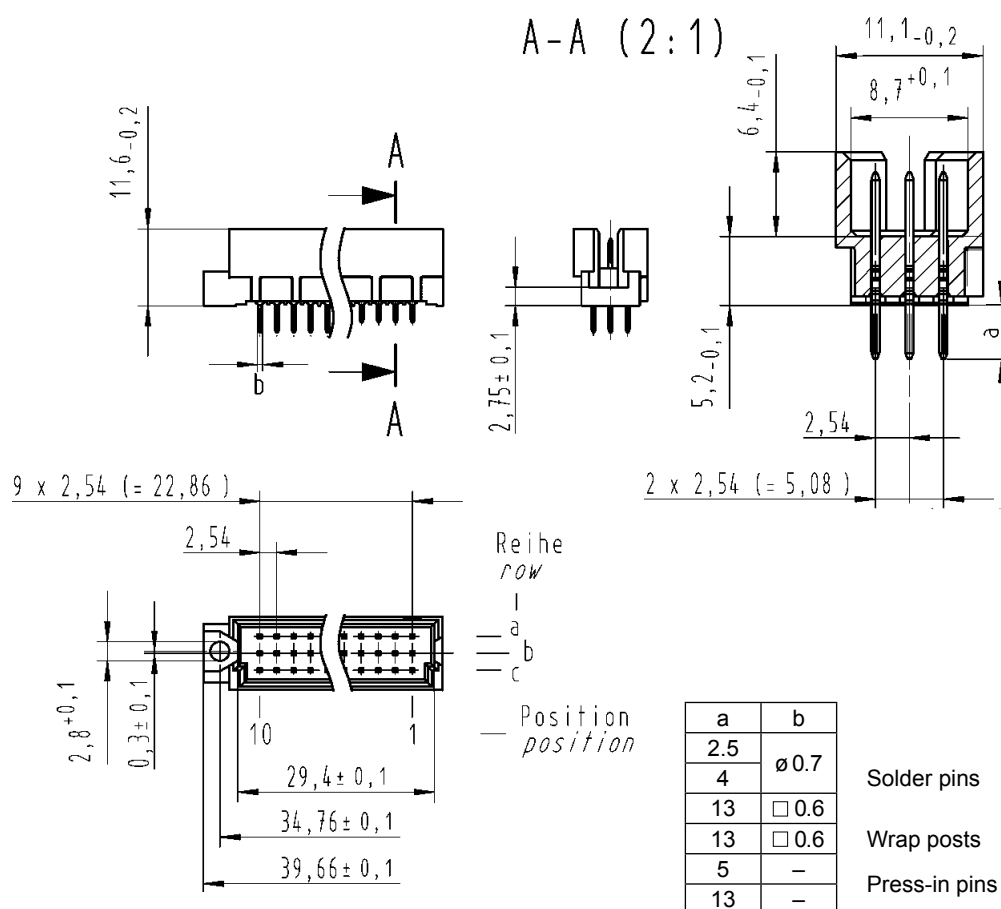
Male connectors

Identification

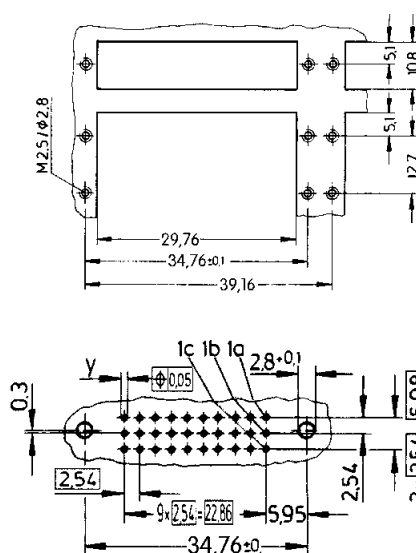
Drawing

Dimensions in mm

Dimensions

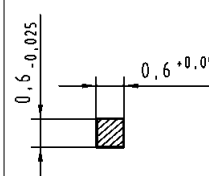


Panel cut out

Board drillings
Mounting side


	Y
Solder	1 ± 0.1

Cross section of solder terminations


Cross area (A) of contacts
row a, b, c: A = 0.35 - 0.39 mm²

Other contact arrangements as well with lagging/leading pins on request