

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
The higher temperature limit includes the local ambient and heating effects of the contacts under load
During reflow soldering
- 55 °C ... + 125 °C
- 40 °C ... + 105 °C for press-in connector
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

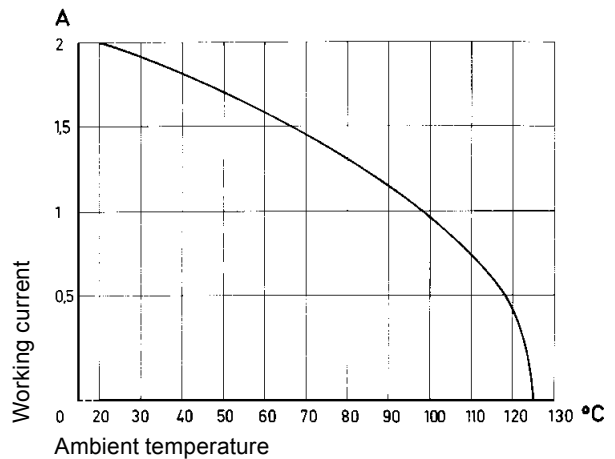
Materials
Mouldings Thermoplastic resin, glass-fibre filled, UL 94-V0
Contacts Copper alloy

Contact surface
Contact zone Selectively plated according to performance level

Current carrying capacity

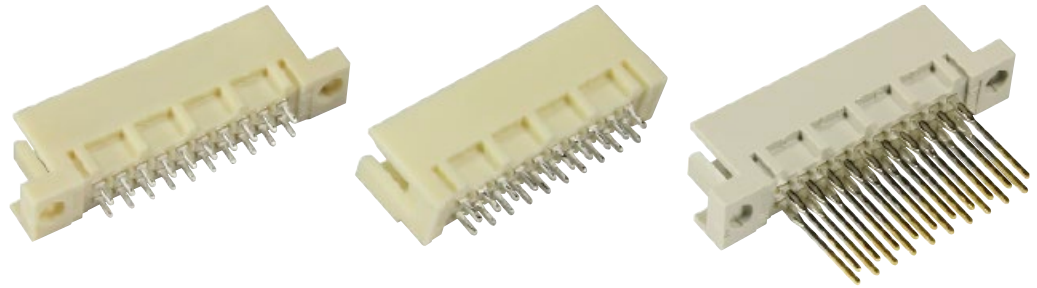
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the 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.	Performance levels according to IEC 60603-2.	
			3	2	1
Male connector with solder pins 2.5 mm with fixing flange with fixing flange, SMC without fixing flange without fixing flange, SMC	20		Performance level 3 on request	09 75 120 6902	Performance level 1 on request
	20			09 75 120 6519 ^{d)}	
	20			09 75 120 6592	
	20			09 75 120 6569 ^{d)}	
Male connector with solder pins 4.0 mm with fixing flange with fixing flange, SMC without fixing flange without fixing flange, SMC	20			09 75 120 6903	
	20			09 75 120 6520 ^{d)}	
	20			09 75 120 6593	
	20			09 75 120 6570 ^{d)}	
Male connector with solder pins 13 mm with fixing flange with fixing flange, SMC	20			09 75 120 6577	
	20			09 75 120 6521 ^{d)}	
Male connector with wrap posts¹⁾ 13 mm with fixing flange	20			09 75 120 6907	
Male connector with press-in pins 5.0 mm with fixing flange without fixing flange	20			09 75 120 6904	
	20		09 75 120 6504		
Male connector with press-in pins 13 mm with fixing flange without fixing flange	20		09 75 120 6985 09 75 120 6974*		
	20		09 75 120 6574*		

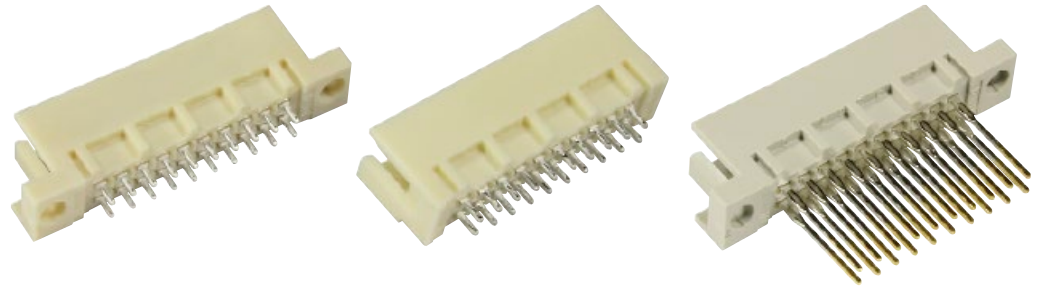
* Wrap posts for interfacing selectively gold plated (performance level 3)

¹⁾ To be used only for wire wrap termination

^{d)} CTI > 400

Number of contacts

20



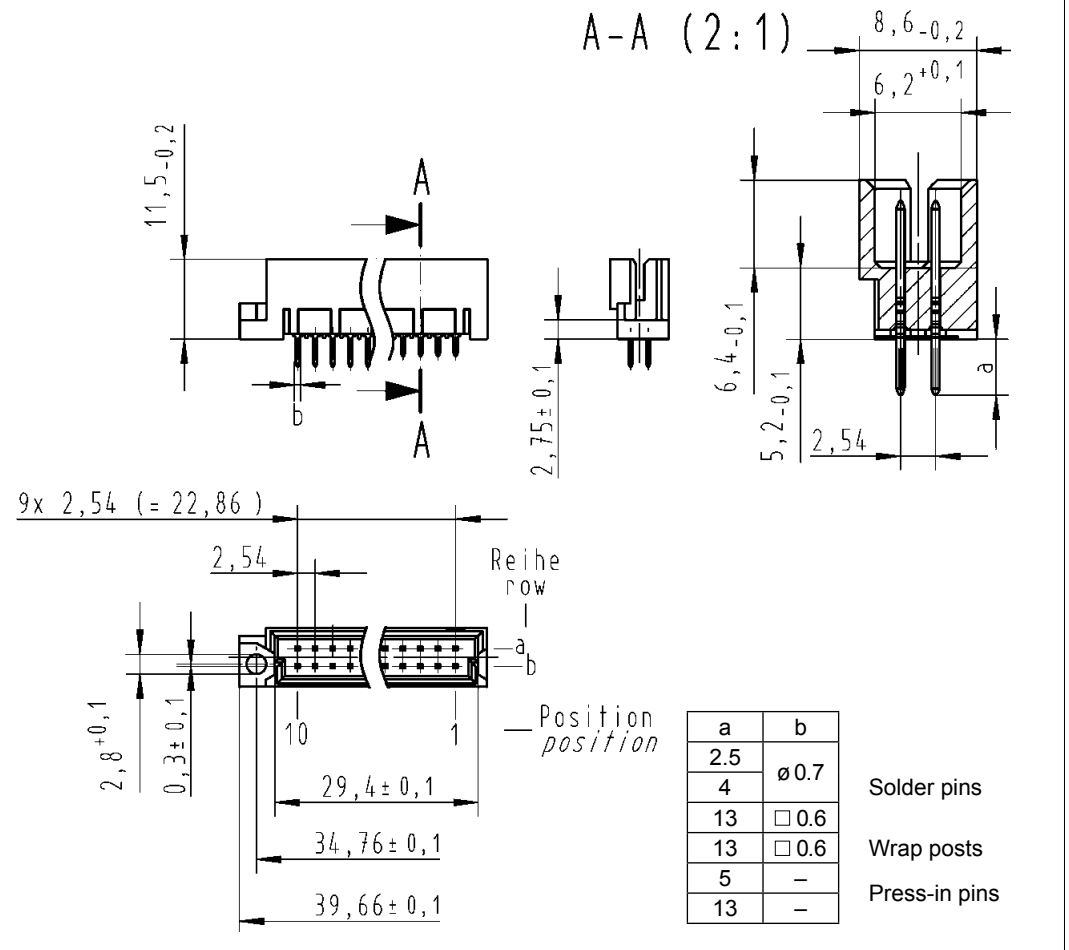
Male connectors

Identification

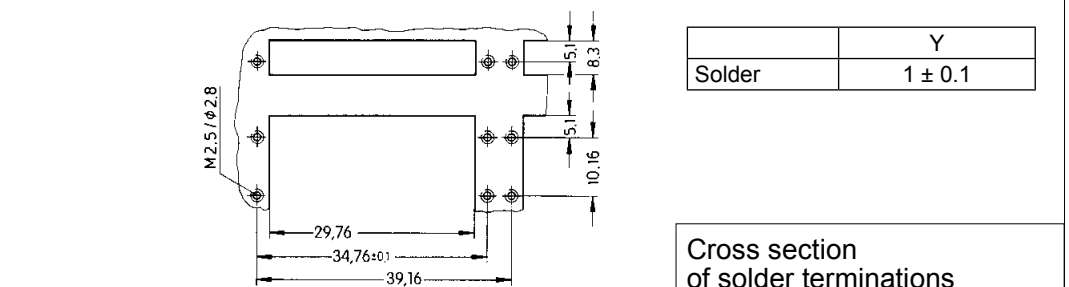
Drawing

Dimensions in mm

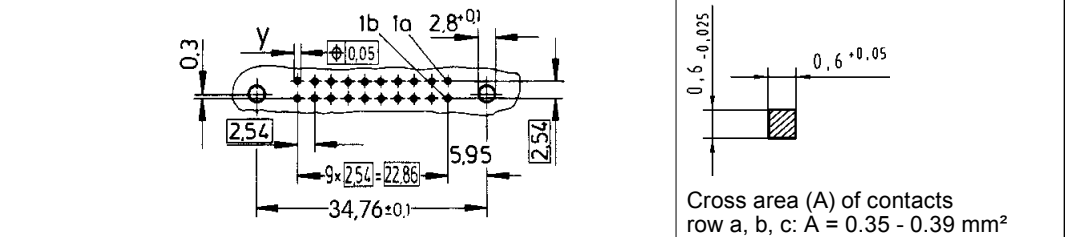
Dimensions



Panel cut out

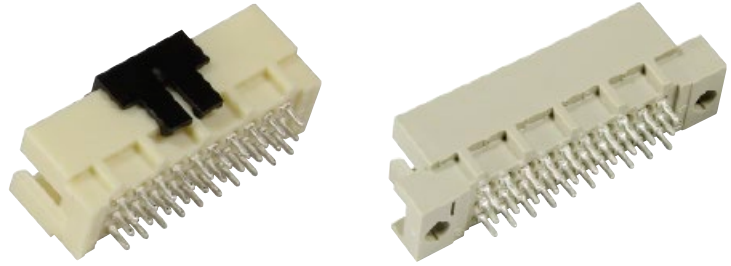


Board drillings
Mounting side



Number of contacts

30, 20



Male connectors

Identification	Number of contacts	Contact arrangement	Part No.	Performance levels according to IEC 60603-2.	
			3	2	1
Male connector with solder pins 2.5 mm with fixing flange	30		Performance level 3 on request	09 29 130 6902	Performance level 1 on request
	20			09 29 120 6902	
	30			09 29 130 6519 ^{d)}	
	30			09 29 130 6592	
	30			09 29 130 6569 ^{d)}	
Male connector with solder pins 4.0 mm with fixing flange	30			09 29 130 6903	
	20			09 29 120 6903	
	30			09 29 130 6520 ^{d)}	
	30			09 29 130 6593	
	30			09 29 130 6570 ^{d)}	
Male connector with solder pins 13 mm with fixing flange	30			09 29 130 6577	
	20			09 29 120 6577	
	30			09 29 130 6521 ^{d)}	
Male connector with wrap posts ¹⁾ 13 mm with fixing flange	30			09 29 130 6907	
Male connector with press-in pins 5.0 mm with fixing flange	30			09 29 130 6904	
	20		09 29 120 6904		
	30		09 29 130 6504		
Male connector with press-in pins 13 mm with fixing flange	30		09 29 130 6985 09 29 130 6974*		
	20		09 29 120 6974*		
	30		09 29 130 6574*		

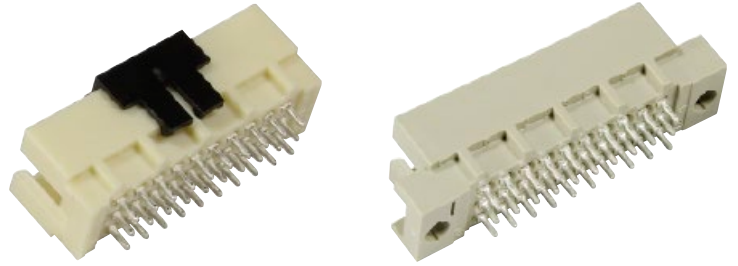
* Wrap posts for interfacing selectively gold plated (performance level 3)

¹⁾ To be used only for wire wrap termination

^{d)} CTI > 400

Number of contacts

30, 20



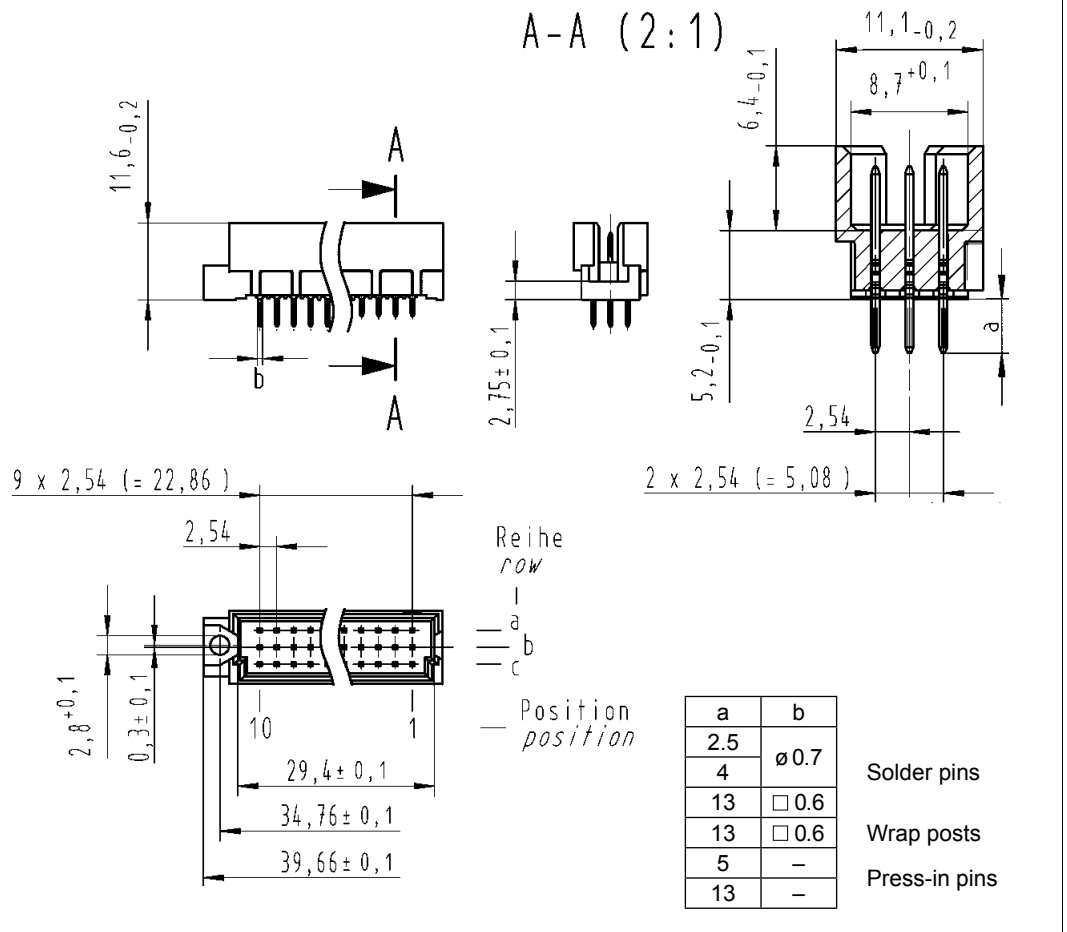
Male connectors

Identification

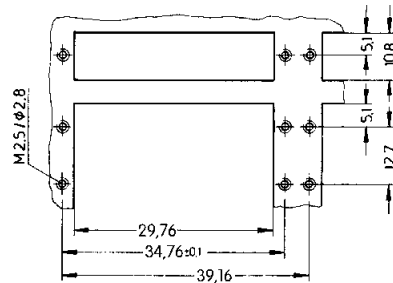
Drawing

Dimensions in mm

Dimensions

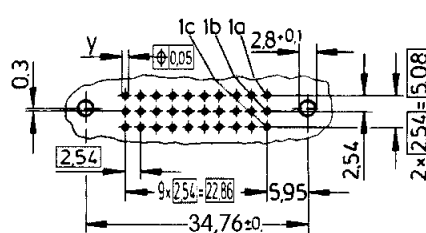


Panel cut out

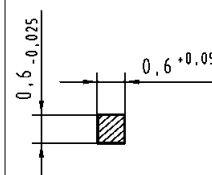


Solder	Y
	1 ± 0.1

Board drillings
Mounting side



Cross section of solder terminations



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