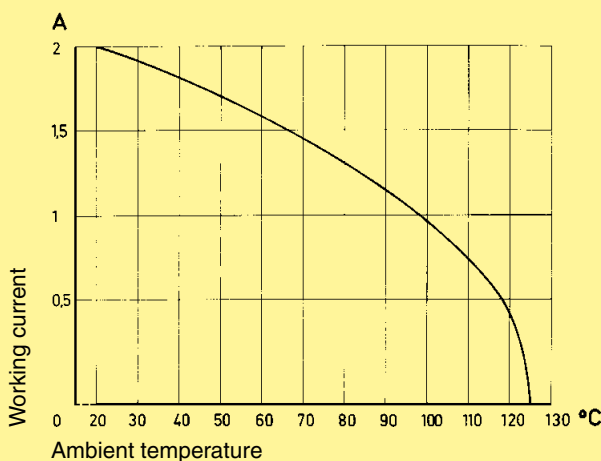


Number of contacts	16-96
Contact spacing (mm)	2.54
Working current see current carrying capacity chart	2 A max. 1 A with insulation displacement 40 A max. type M
Clearance	≥ 1.2 mm
Creepage	≥ 1.2 mm
Working voltage	according to the safety regulations of the equipment Explanations see chapter 00
The working voltage also depends on the clearance and creepage dimensions of the pcb itself, and the associated wiring	
Test voltage $U_{r.m.s.}$	1 kV
Contact resistance	≤ 20 mΩ
Insulation resistance	≥ 10 <sup>12</sup> Ω for standard articles ≥ 10 <sup>11</sup> Ω for special NFF articles (with part-no. ending 222)
Temperature range	- 55 °C ... + 125 °C - 40 °C ... + 105 °C for press-in connector
The higher temperature limit includes the local ambient and heating effects of the contacts under load	
During reflow soldering	max. + 240 °C for 15 s for SMC connectors
Degree of protection for crimp terminal	IP 20 according to DIN 40 050
Electrical termination	
Male and female connector	Solder pins for pcb connections Ø 1.0 ± 0.1 mm according to IEC 60 326-3 wrap posts 0.6 x 0.6 mm diagonal 0.79-0.86 mm Crimp terminal 0.09-0.5 mm <sup>2</sup> Insulation displacement connection AWG 28/7
Compliant press-in terminations	
PCB thickness	≥ 1.6 mm
Recommended PCB holes for press-in technology	See recommendation page 00.25 in acc. to EN 60 352-5
Insertion and withdrawal force	16way ≤ 15 N 20way ≤ 20 N 30way ≤ 30 N 32way ≤ 30 N 48way ≤ 45 N 64way ≤ 60 N 96way ≤ 90 N
Materials	
Mouldings	Thermoplastic resin, glass-fibre filled, UL 94-V0
Contacts	Copper alloy
Contact surface	
Contact zone	Selectively plated according to performance level <sup>1)</sup>
<sup>1)</sup> Explanation performance levels see chapter 00	
Mating conditions see chapter 00	

## 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 60 512



## Pin shroud for male and female connectors with 0.6 x 0.6 mm pins

A secure interfacing system for signals from the rear of 19" racks to connectors with wrap posts 0.6 x 0.6 mm is possible with the use of a pin shroud.

The pin shroud protects the wrap posts on the rear side of the rack and can be screwed to the printed circuit board (screw fixing) or can be pressed onto the pins (press-in fixing).

After assembly the rear ends of the wire wrap posts become the mating areas of a type C resp. type 2C male connector.

This system can now accept:

- female connectors type C
- female connectors type 2C
- female connectors type R
- female connectors type 2R

The locking levers provide security for the mated connectors. Fast and simple disconnection is possible (see application examples, pages 01.64 ff).

## Fitting and removing crimp contacts

see technical characteristics chapter 03

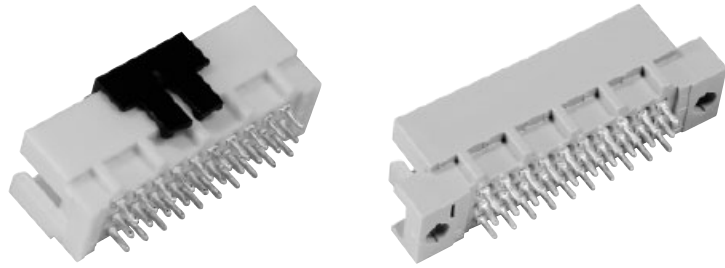
DIN Signal up to 2 A

# DIN 41 612 · complementary type 3R



Number of contacts

# 30, 20



## Male connectors

Identification	Number of contacts	Contact arrangement	Part No.	Performance levels according to IEC 60603-2. Explanation chapter 00		
				3	2	1
Male connector with solder pins 2.5 mm	30		Performance level 3 on request	09 29 130 6902	Performance level 1 on request	
with fixing flange	20			09 29 120 6902		
with fixing flange, SMC	30			09 29 130 6519 <sup>d)</sup>		
without fixing flange	30			09 29 130 6592		
without fixing flange, SMC	30			09 29 130 6569 <sup>d)</sup>		
Male connector with solder pins 4.0 mm	30			09 29 130 6903		
with fixing flange	20			09 29 120 6903		
with fixing flange, SMC	30			09 29 130 6520 <sup>d)</sup>		
without fixing flange	30			09 29 130 6593		
without fixing flange, SMC	30			09 29 130 6570 <sup>d)</sup>		
Male connector with solder pins 13 mm	30			09 29 130 6577		
with fixing flange	20			09 29 120 6577		
with fixing flange, SMC	30			09 29 130 6521 <sup>d)</sup>		
Male connector with wrap posts <sup>1)</sup> 13 mm	30			09 29 130 6907		
Male connector with press-in pins 5.0 mm	30			09 29 130 6904		
with fixing flange	20		09 29 120 6904			
without fixing flange	30		09 29 130 6504			
Male connector with press-in pins 13 mm	30		09 29 130 6985 <sup>w)</sup> 09 29 130 6974*			
with fixing flange	20		09 29 120 6974*			
without fixing flange	30		09 29 130 6574*			

DIN Signal up to 2 A

01-58

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

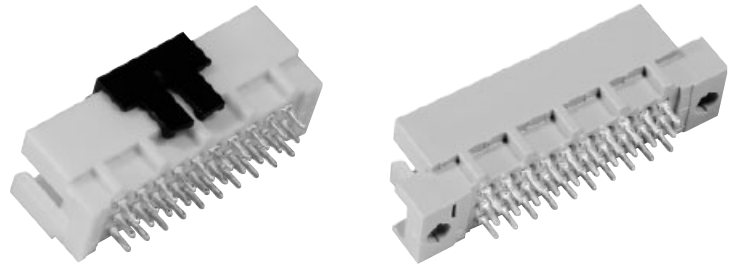
<sup>1)</sup> To be used only for wire wrap termination

<sup>d)</sup> CTI > 400

<sup>w)</sup> Wrap posts not for interfacing, no performance level

Number of contacts

**30, 20**



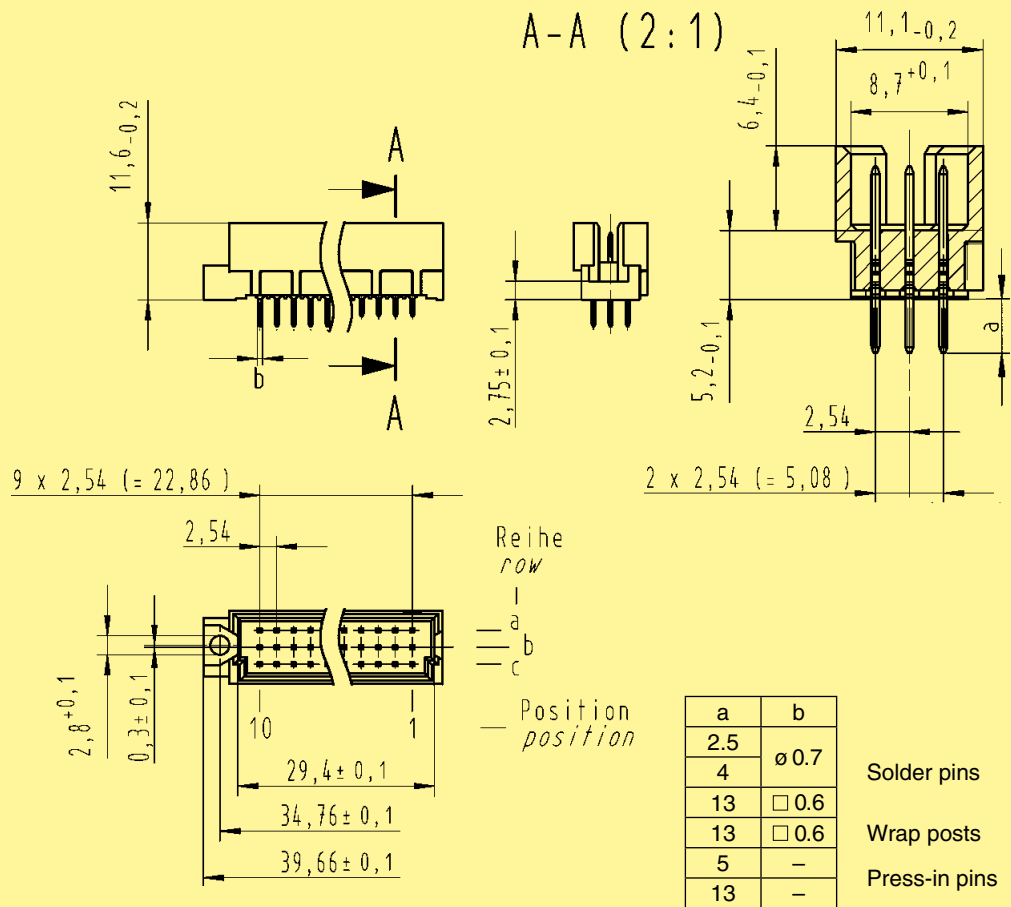
Male connectors

Identification

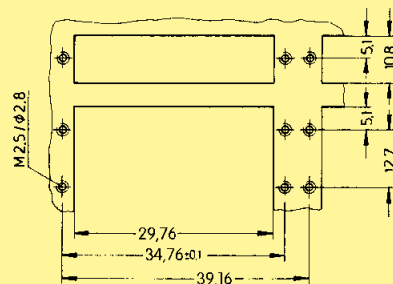
Drawing

Dimensions in mm

Dimensions



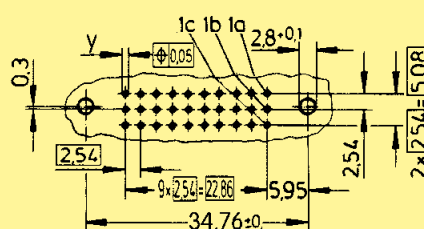
Panel cut out



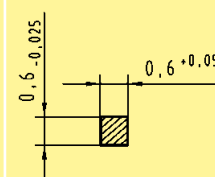
	Y
Solder	1 ± 0.1
Press-in	see recommendation page 00.25

Board drillings

Mounting side



Cross section of solder terminations



Cross area (A) of contacts row a, b, c: A = 0.35 - 0.39 mm<sup>2</sup>