Number of contacts	16-96
Contact spacing (mm)	2.54
Working current	2 A max.
see current carrying capacity chart	1 A with insulation displacement 40 A max. type M
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 Explanations see chapter 00
Test voltage $U_{r.m.s.}$	1 kV
Contact resistance	≤ 20 mΩ
Insulation resistance	≥ 10^{12} Ω for standard articles ≥ 10^{11} Ω for special NFF articles (with part-no. ending 222)
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
Degree of protection for crimp terminal according to DIN 40 050	IP 20

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 mm² 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[1)]

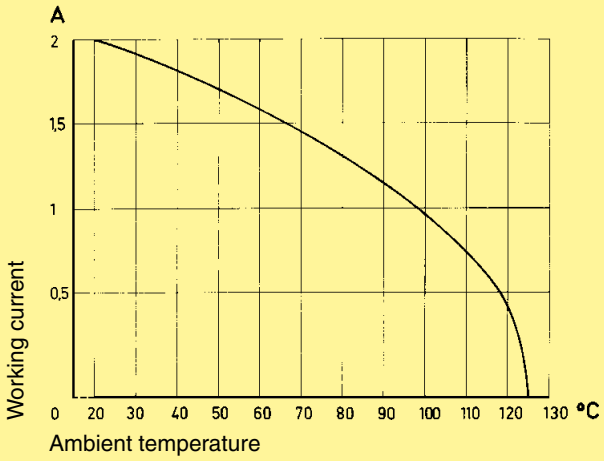
[1)] Explanation performance levels see chapter 00

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).

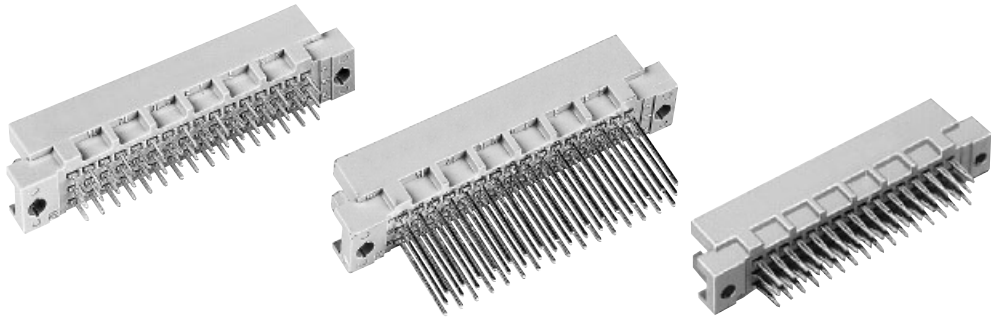
Fitting and removing crimp contacts

see technical characteristics chapter 03

DIN 41 612 · complementary type 2R

Number of contacts

48, 32



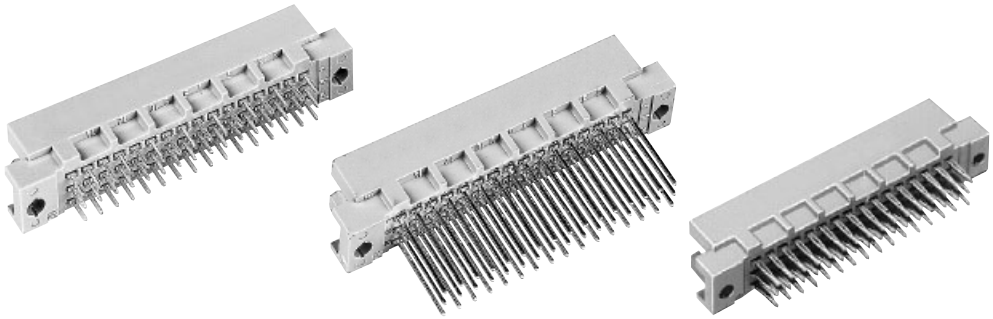
Male connectors

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	48		09 28 148 7902 09 28 348 7902[b)]	09 28 148 6902 09 28 348 6902[b)]	09 28 148 2902
SMC	48			09 28 148 6519[d)]	
	32		09 28 132 7902	09 28 132 6902	09 28 132 2902
SMC	32			09 28 132 6519[d)]	
Male connector with solder pins 4.0 mm	48		09 28 148 7903	09 28 148 6903 09 28 148 6903 222[f)] 09 28 348 6903[b)]	09 28 148 2903
SMC	48			09 28 148 6520[d)]	
	32		09 28 132 7903	09 28 132 6903	
SMC	32			09 28 132 6520[d)]	
Male connector with solder pins 13 mm	48			09 28 148 6577	
SMC	48			09 28 148 6521[d)]	
Male connector with wrap posts[1)] 13 mm	48		09 28 148 7907	09 28 148 6907	09 28 148 2907
	32		09 28 132 7907	09 28 132 6907	09 28 132 2907
Male connector with press-in pins 5.0 mm	48		09 28 148 7904	09 28 148 6904 09 28 148 6904 222[f)]	
	32			09 28 132 6904	
Male connector with press-in pins 13 mm	48		09 28 148 7985	09 28 148 6985[w)] 09 28 148 6974[•]	
	32			09 28 132 6985[w)]	

• Wrap posts for interfacing selectively gold plated (performance level 3)
[1)] To be used only for wire wrap termination
[b)] Connectors with snap-in clips see chapter 00
[d)] CTI > 400
[f)] Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2
[w)] Wrap posts not for interfacing, no performance level

Number of contacts

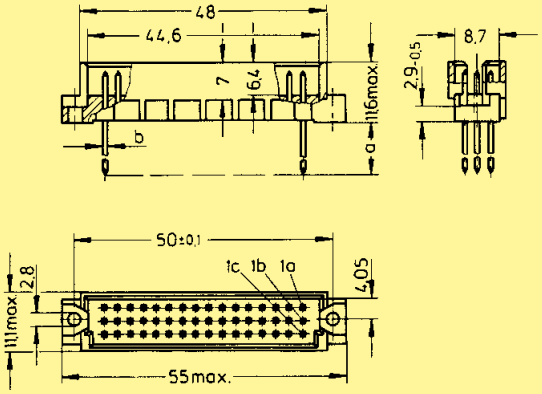
48, 32



Male connectors

Identification	Drawing	Dimensions in mm

Dimensions

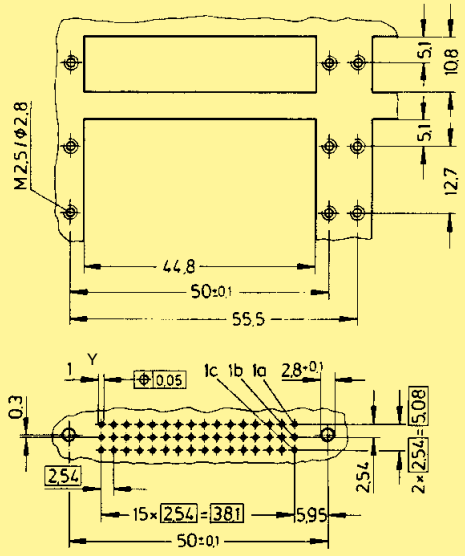


a	b	
2.5	ø 0.7	Solder pins
4		
13	□0.6	
13	□0.6	Wrap posts
5	–	Press-in pins
13	–	

Panel cut out

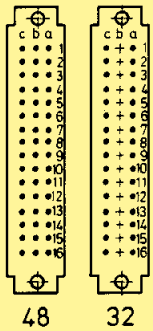
Board drillings

Mounting side



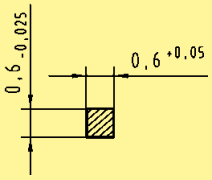
Contact arrangement

View from termination side



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

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