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)]

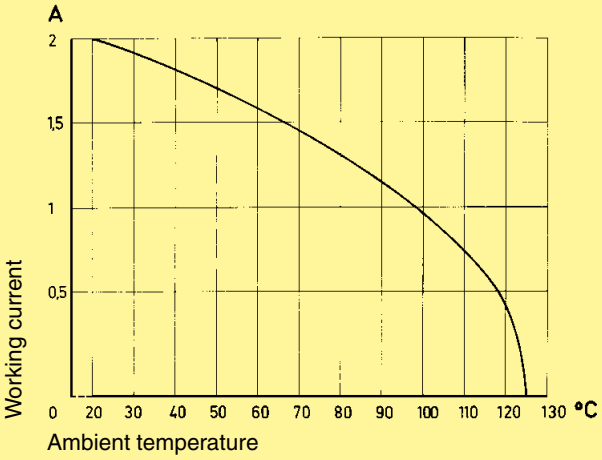
[1)] Explanation performance levels see chapter 00

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).

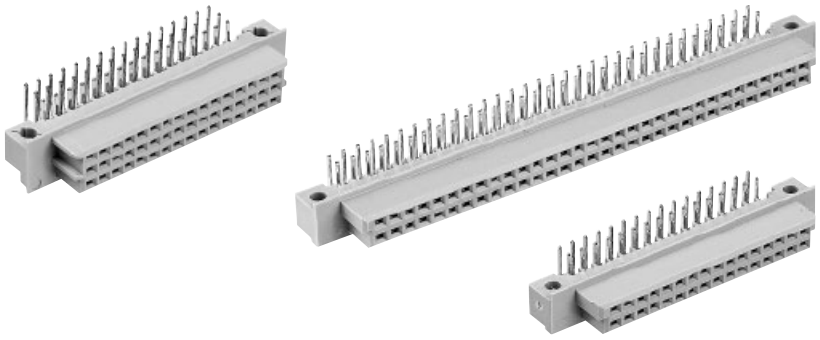
Fitting and removing crimp contacts

see technical characteristics chapter 03

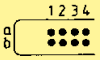
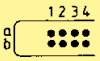
DIN 41 612 · Type Q – complementary types 2Q, 2R

Number of contacts

64, 48, 32

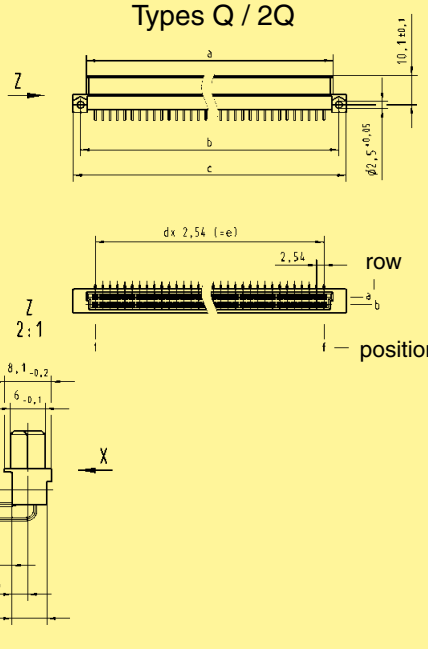


Female connectors

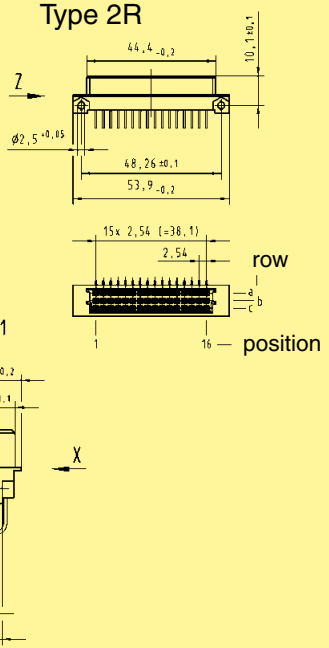
Identification	Number of contacts	Contact arrangement	Part No. Performance level 2 according to IEC 60 603-2. Explanation chapter 00
Female connector with angled solder pins			
Type Q	64		09 72 264 6801 09 72 464 6801[b]
Type 2Q	32		09 27 232 6801
Type 2R	48		09 28 248 6801 09 28 448 6801[b]

Dimensions

Types Q / 2Q



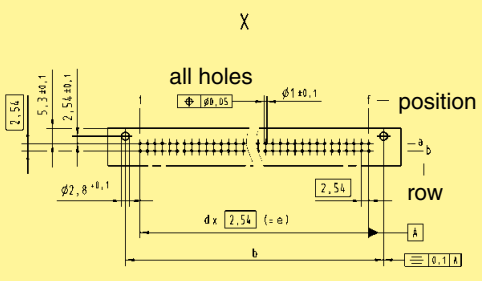
Type 2R

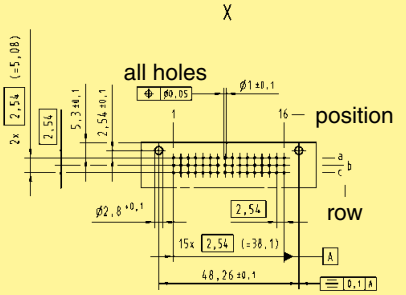


Type	a	b	c	d	e	f
Q	85.0$^{-0.2}$	88.90±0.1	94.0$^{-0.2}$	31	78.74	32
2Q	44.4$^{-0.2}$	48.26±0.1	53.9$^{-0.2}$	15	38.10	16

Board drillings

Mounting side





Dimensions in mm

Other contact arrangements on request

[b] Connectors with snap-in clips see chapter 00