| | |
|---|---|
| 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<br>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<br>Explanations see chapter 00 |
| Test voltage $U_{r.m.s.}$ | 1 kV |
| Contact resistance | ≤ 20 mΩ |
| Insulation resistance | ≥ $10^{12}$ Ω for standard articles<br>≥ $10^{11}$ 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<br>Ø 1.0 ± 0.1 mm<br>according to IEC 60 326-3<br>wrap posts 0.6 x 0.6 mm<br>diagonal 0.79-0.86 mm<br>Crimp terminal 0.09-0.5 mm²<br>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<br>20way ≤ 20 N<br>30way ≤ 30 N<br>32way ≤ 30 N<br>48way ≤ 45 N<br>64way ≤ 60 N<br>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)] |

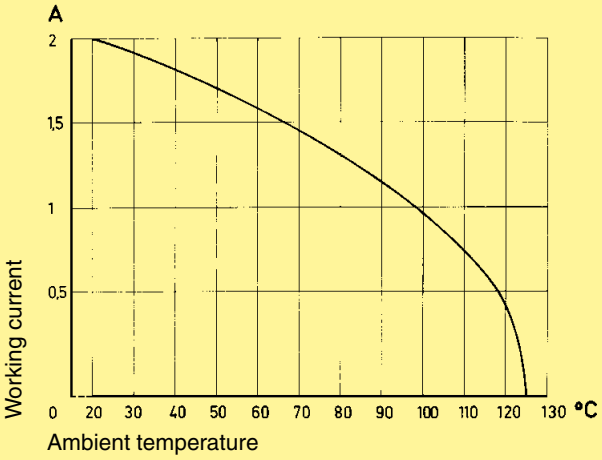
[1)] Explanation performance levels see chapter 00

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

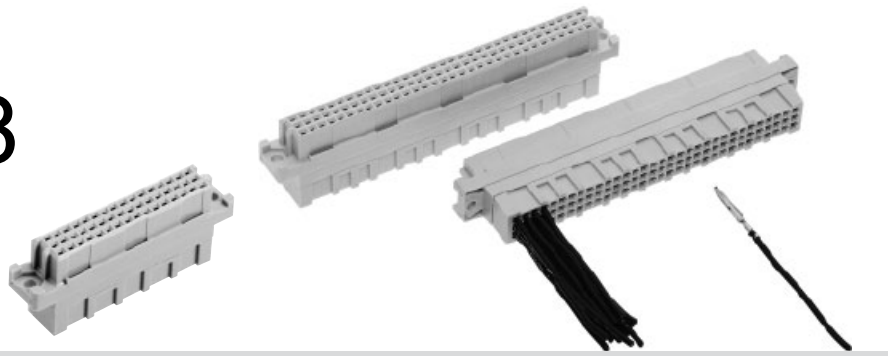
The locking levers provide security for the mated connectors. Fast and simple disconnection is possible (see application examples, pages 01.64 ff).

## Fitting and removing crimp contacts

see technical characteristics chapter 03

Number of contacts

# max. 96, 48

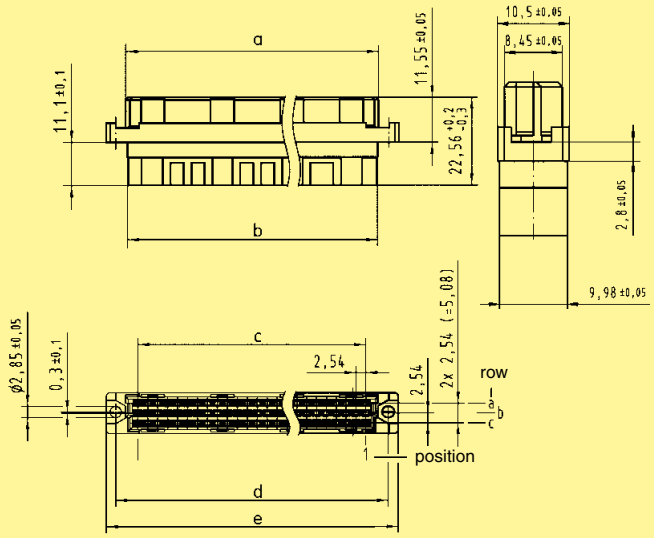


## Female connectors



| Identification | Number of contacts | Part No. |
|---|---|---|
| **Female connector for crimp contacts** | | |
| Order contacts separately | | |
| Type C | 96 | 09 03 096 3214[f)]<br>09 03 596 3214[c)f)] |
| Type C | 96 | 09 03 096 3217[f)] |
| Position marking turned for mating type R male | | |
| Type 2C | 48 | 09 23 048 3214[f)] |
| Type 2C | 48 | 09 23 048 3217[f)] |
| Position marking turned for mating type 2R male | | |

Drawing




Dimensions in mm

| | a | b | c | d | e |
|---|---|---|---|---|---|
| C | 84.93 ±0.07 | 83.95 ±0.05 | 31 x 2.54 (= 78.74) | 90.00 ±0.1 | 94.80 ±0.1 |
| 2C | 44.35 ±0.05 | 43.85 ±0.05 | 15 x 2.54 (= 38.1) | 49.68 ±0.1 | 54.80 ±0.1 |

Shell housing see chapter 20

| Identification | Part No. Performance levels according to IEC 60603-2. Explanation chapter 00 2 | 1 |
|---|---|---|
| **Female crimp contacts BC** | | |
| Bandoliered contacts (approx. 5 ,000 pieces) | 09 02 000 6484 | 09 02 000 6474 |
| Bandoliered contacts (approx. 500 pieces) | 09 02 000 8434 | 09 02 000 8444 |
| Individual contacts[1)] | 09 02 000 8484 | 09 02 000 8474 |

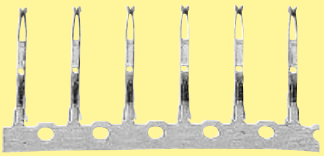
| Wire gauge mm² | AWG | Insulation ø mm |
|---|---|---|
| 0.09 - 0.5 | 28 - 20 | 0.7 - 1.5 |

3.5 + 0.5 mm of insulation is stripped from the wires to be crimped

For the fabrication in line with the specification please use exclusively crimp tools approved by HARTING (see DIN EN 60352-2)

Insertion, removal and crimping tools see chapter 30

Bandoliered contacts



Individual contacts



[c)] Connectors with coding see chapter 00
[1)] Packaging unit 1,000 pieces
[f)] Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2