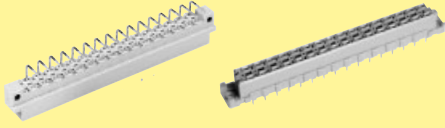
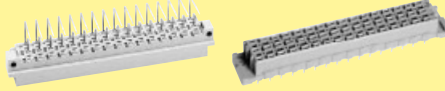
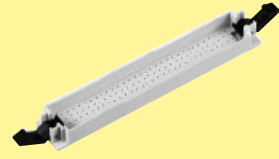
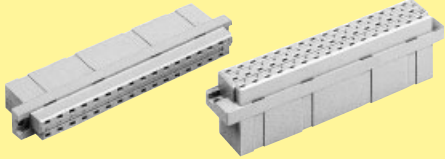
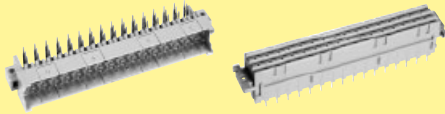
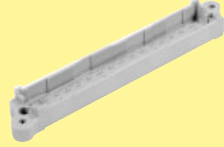

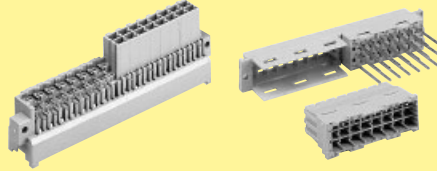
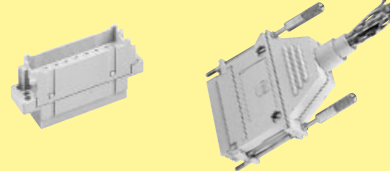


Types D, E, F, FM, 2F, F9, interface connectors I/U

Page

| | | |
|--|--|--------------|
| Technical characteristics types D and E | | 03.10 |
| Type D connectors |  | 03.11 |
| Type E connectors |  | 03.15 |
| Pin shrouds for type E |  | 03.20 |
| Application examples type E | | 03.21 |
| Technical characteristics piggyback connectors | | 03.22 |
| Piggyback connectors |  | 03.23 |
| Technical characteristics types F, F9, FM and 2F | | 03.26 |
| Type F connectors |  | 03.27 |
| Pin shrouds for type F |  | 03.36 |
| Application examples type F | | 03.38 |
| Type F9 connectors |  | 03.41 |
| Type FM connectors |  | 03.42 |
| Type 2F connectors |  | 03.44 |

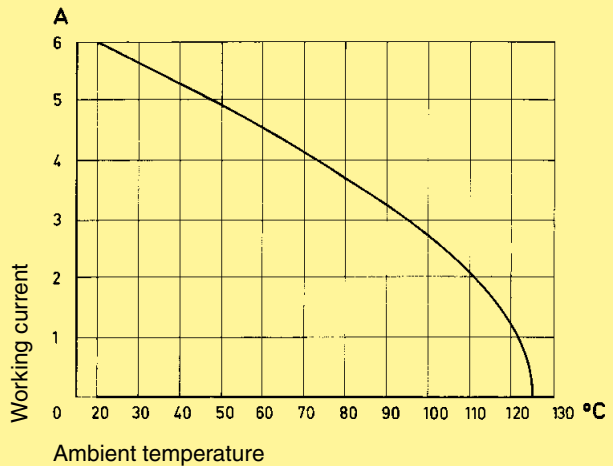
DIN Power
up to 6 A

| | |
|---|--|
| Number of contacts | |
| Type D | 32 |
| Type E | 48 |
| Contact spacing (mm) | |
| Type D | 5,08 |
| Type E | male connector 5.08 x 5.08 male connector 2.54 x 5.08 female connector 5.08 x 5.08 |
| Working current see current carrying capacity chart | 6 A max. 1 A max. for female connector type E angled |
| Clearance | |
| Types D and E | ≥ 3.0 mm |
| Type E male connector row separation 2.54 mm | ≥ 1.6 mm |
| Creepage | ≥ 3.0 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 $U_{r.m.s.}$ | 1.55 kV |
| Contact resistance | ≤ 15 mΩ ≤ 20 mΩ for female connector type E angled |
| Insulation resistance | ≥ 10 ¹² Ω for standard articles ≥ 10 ¹¹ Ω for special NFF articles (with part-no. ending 222) |
| Temperature range | |
| The higher temperature limit includes the local ambient and heating effects of the contacts under load | - 55 °C ... + 125 °C - 40 °C ... + 105 °C for press-in connectors |
| Degree of protection for crimp terminal according to DIN 40 050 | IP 20 |
| Electrical termination | Solder pins for pcb connections Ø 1.0 ± 0.1 mm according to IEC 60 326-3 Wrap posts 1 x 1 mm diagonal 1.34-1.45 mm Angled solder pins 1 x 1 mm for pcb connections Ø 1.6 ± 0.1 mm Solder lugs Crimp terminal 0.09-1.5 mm ² Compliant press-in terminations |
| PCB thickness Recommended PCB holes for press-in technology | ≥ 1.6 mm see recommendation page 00.25 in acc. to EN 60 352-5 |
| Insertion and withdrawal force | 32 way ≤ 40 N 48 way ≤ 75 N |
| Materials | |
| Mouldings | Thermoplastic resin, glass-fibre filled, UL 94-V0 |
| Contacts | Copper alloy |
| Contact surface | |
| Contact zone | Selectively gold plated according to performance level ¹⁾ |
| ¹⁾ Explanation of performance levels 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

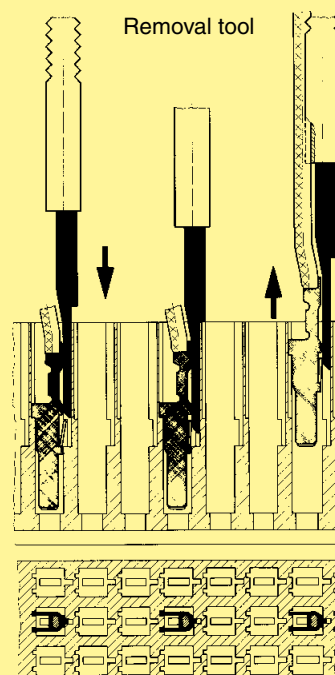


Fitting the crimp contacts

After crimping the wires onto the contacts with the help of a crimping tool or an automatic crimping machine the contacts should be correctly oriented and inserted into the cavities of the connector moulding in the required configuration. They snap into position and are firmly held in place. A light pull on the wire assures the correct tensile strength of the contact. When using stranded wires with a gauge below 0.37 mm² an insertion tool is necessary.

Removing the crimp contacts

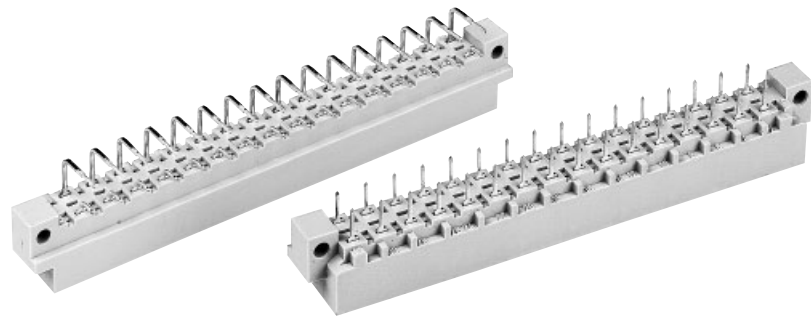
The removal tool is inserted into a slot on the termination side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damage to the contact/wire which can be repositioned/refitted as necessary. The drawing demonstrates the crimp removal procedure (max. 5x).



DIN Power up to 6 A

Number of contacts

32

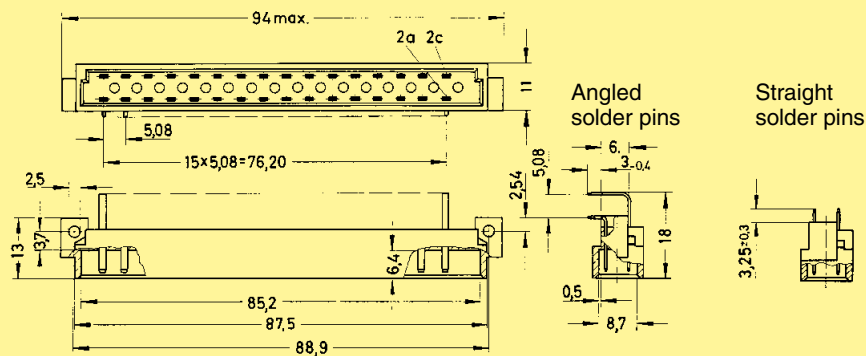


Male connectors

| Identification | Number of contacts | Contact arrangement | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 | | |
|---|---------------------|---------------------|----------------|--|--|---|
| | | | | 3 | 2 | 1 |
| Male connector with angled solder pins SMC | 32 | | 09 04 132 7921 | 09 04 132 6921 09 04 132 6921 222 ^{f)} 09 04 332 6921 ^{b)} 09 04 632 6921 ^{c)} | 09 04 132 2921 09 04 132 2921 222 ^{f)} | |
| | 32 | | | 09 04 332 6919 ^{b)d)} | | |
| | 30 + 2 [▲] | | | 09 04 132 6951 09 04 632 6951 ^{c)} | 09 04 632 2951 ^{c)} | |
| Male connector with straight solder pins | 32 | | | 09 04 132 6922 | | |
| | 30 + 2 [▲] | | | 09 04 132 6952 | | |

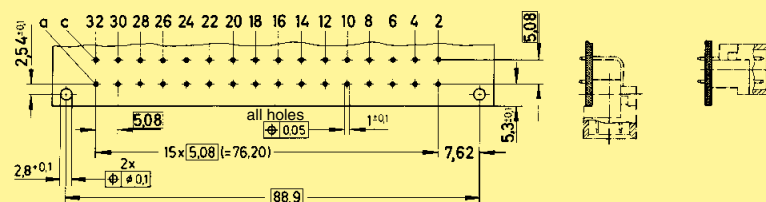
DIN Power up to 6 A

Dimensions



Board drillings

Mounting side



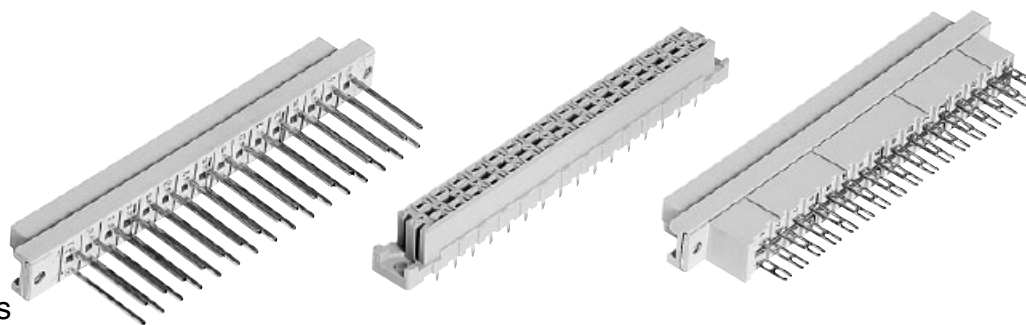
Dimensions in mm

▲ Male connectors with 2 leading contacts [(0.8 mm) pos. a2 and a32]
Other contact arrangements on request
b) Connectors with snap-in clips see chapter 00
c) Connectors with coding see chapter 00

d) CTI > 400
f) Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

32

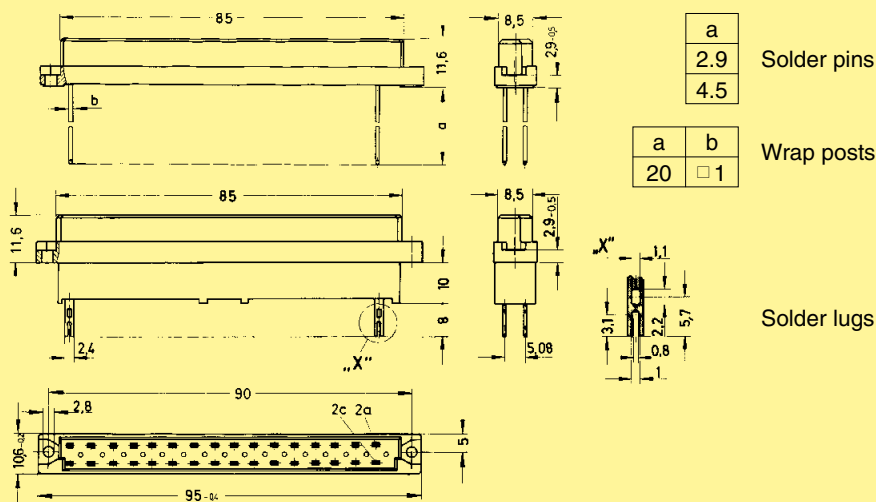


Female connectors

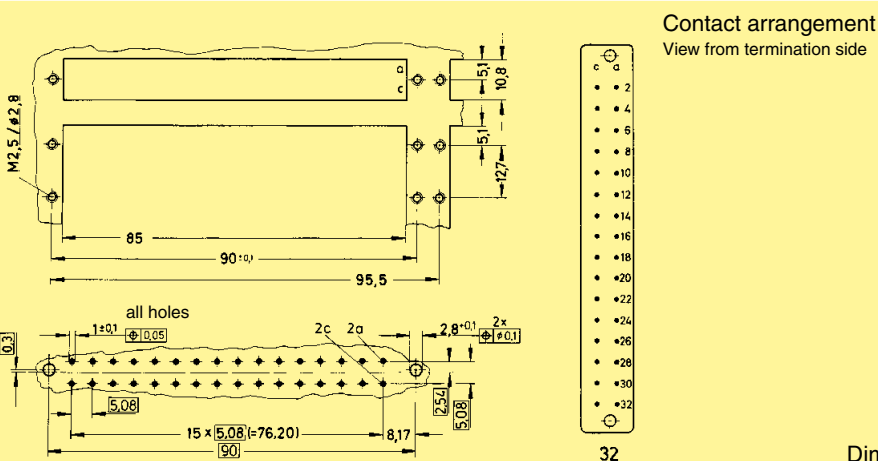
DIN Power
up to 6 A

| Identification | Number of contacts | Contact arrangement | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 | | |
|--|--------------------|---------------------|----------------|--|--|--|
| | | | 3 | 2 | 1 | |
| Female connector with solder pins 2.9 mm | 32 | | 09 04 232 7832 | 09 04 232 6832 09 04 732 6832 ^{e)} | 09 04 232 2832 | |
| Female connector with solder pins 4.5 mm | 32 | | 09 04 232 7831 | 09 04 232 6831 09 04 232 6831 222 ^{f)} 09 04 332 6831 ^{b)} 09 04 732 6831 ^{e)} | 09 04 232 2831 09 04 232 2831 222 ^{f)} | |
| Female connector with wrap posts 20 mm | 32 | | 09 04 232 7821 | 09 04 232 6821 09 04 732 6821 ^{e)} | 09 04 232 2821 | |
| Female connector with solder lugs | 32 | | 09 04 232 7823 | 09 04 232 6823 | 09 04 232 2823 | |

Dimensions



Panel cut out



Board drillings

Mounting side

^{b)} Connectors with snap-in clips see chapter 00
^{c)} Connectors with coding see chapter 00

^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

32



Female connectors

| Identification | Number of contacts | Contact arrangement | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 | |
|---|--------------------|---------------------|------------------------------|---|----------------|
| | | | | 2 | 1 |
| Female connector with angled solder pins 1 x 1 mm | 32 | | | 09 04 232 6826 09 04 232 6826 222 ^{f)} | 09 04 232 2826 |
| Dimensions | | | | | |
| Fixing bracket Metal | | | 09 06 000 9912 ¹⁾ | | |
| Board drillings Mounting side | | | | | |

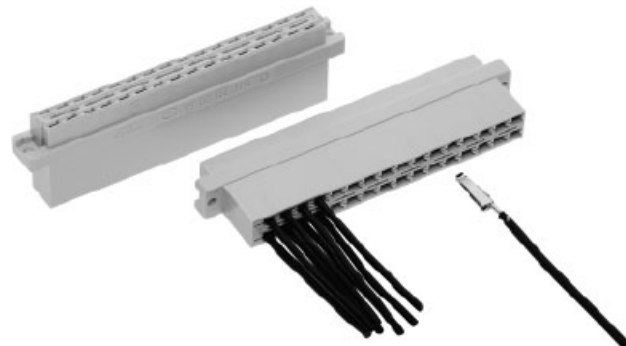
DIN Power up to 6 A

Dimensions in mm

^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

max. 32



Female connectors

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|--|--------------------|---------------------------------|---------|------------------|
| Female connector for crimp contacts Order contacts separately | 32 | 09 04 032 3213 ^{f)} | | |
| | 32 | 09 04 532 3213 ^{c)} f) | | |
| Shell housing 09 03 096 0501 see chapter 20 | | | | |

| Identification | Identification Wire gauge | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 |
|--|---------------------------|----------------|---|
| | | 2 | 1 |
| Female crimp FC contacts | | | |
| Bandoliered contacts (approx. 2,500 pieces) | 1 | 09 06 000 6484 | 09 06 000 6474 |
| | 2 | 09 06 000 6481 | 09 06 000 6471 |
| | 3 | 09 06 000 6482 | 09 06 000 6472 |
| Bandoliered contacts (approx. 250 pieces) | 1 | 09 06 000 7484 | 09 06 000 7474 |
| | 2 | 09 06 000 7481 | 09 06 000 7471 |
| | 3 | 09 06 000 7482 | 09 06 000 7472 |
| Individual contacts ¹⁾ | 1 | 09 06 000 8484 | 09 06 000 8474 |
| | 2 | 09 06 000 8481 | 09 06 000 8471 |
| | 3 | 09 06 000 8482 | 09 06 000 8472 |
| Female contacts with solder lugs ²⁾ (lockable) | | | 09 06 000 6420 |

| FC | Wire gauge mm ² | AWG | Insulation ø mm | Identification |
|---|----------------------------|---------|-----------------|----------------|
| FC 1 | 0.09 - 0.25 | 28 - 24 | 0.7 - 1.5 | |
| FC 2 | 0.14 - 0.56 | 26 - 20 | 0.8 - 2.0 | |
| FC 3 | 0.5 - 1.5 | 20 - 16 | 1.6 - 2.8 | |
| 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 | | | | |

DIN Power up to 6 A

1) Packaging unit 1,000 pieces
 2) Solder contacts must not be used together with shell housing A. Special contact surface: 2 µm gold.
 3) Connectors with coding see chapter 00
 4) Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

48

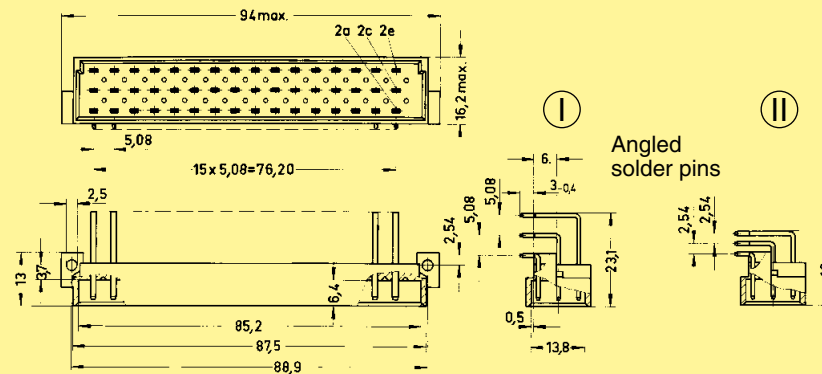


Male connectors

| Identification | Number of contacts | Contact arrangement | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 | | |
|---|---------------------|---------------------|----------------|--|--|---|
| | | | | 3 | 2 | 1 |
| Male connector with angled solder pins Row separation termination side 5.08 mm (I) | 48 | | 09 05 148 7921 | 09 05 148 6921 09 05 148 6921 222 ^{f)} 09 05 348 6921 ^{b)} 09 05 648 6921 ^{c)} 09 05 848 6921 ^{b)c)} | 09 05 148 2921 09 05 148 2921 222 ^{f)} 09 05 648 2921 ^{c)} | |
| | 46 + 2 [▲] | | | 09 05 148 6951 | | |
| | 48 | | 09 05 148 7931 | 09 05 148 6931 09 05 348 6931 ^{b)} 09 05 648 6931 ^{c)} | 09 05 148 2931 | |
| | SMC (II) | 48 | | | 09 05 148 6920 ^{d)} 09 05 348 6920 ^{b)d)} | |
| | | 46 + 2 [▲] | | | 09 05 148 6961 | |

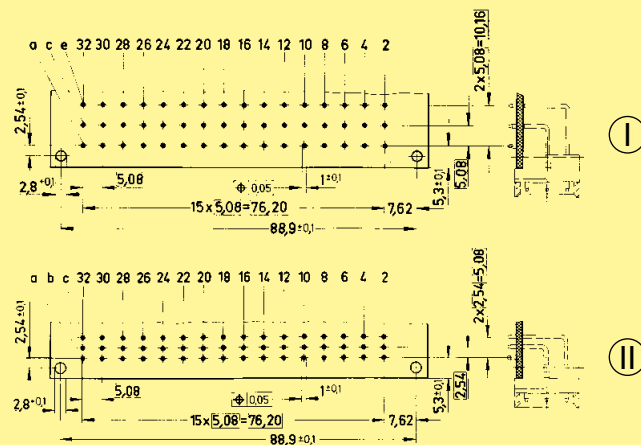
DIN Power up to 6 A

Dimensions



Board drillings

Mounting side



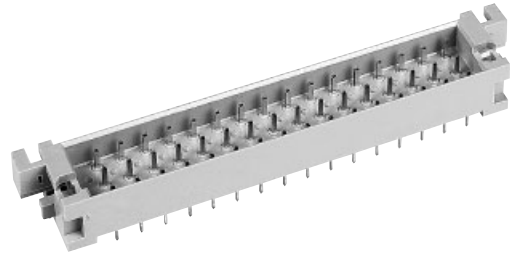
Dimensions in mm

▲ Male connectors with 2 leading contacts [(0.8 mm) pos. a2 and a32]
 Other contact arrangements on request
 b) Connectors with snap-in clips see chapter 00
 c) Connectors with coding see chapter 00

d) CTI > 400
 f) Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

48



Interface connector I

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|---|--------------------|---|---|---|
| Interface connector I with solder pins 0.6 x 0.6 mm | 48 | Performance level 2 acc. to IEC 60 603-2 09 05 048 6924 ¹⁾ | <p> Contact arrangement View from termination side </p> | <p> Board drillings Mounting side </p> |

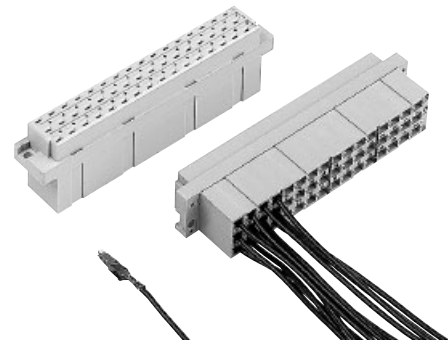
DIN Power up to 6 A

03
16

¹⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

max. 48



Female connectors

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|--|--------------------|--|--|------------------|
| Female connector for crimp contacts Order contacts separately | 48 | 09 05 048 3202 ¹⁾ 09 05 548 3202 ²⁾ | <p>85, 84, 11,6, 14,8, 13,6, 2,9, 15,1, 2,8^{+0,1}, 90^{±0,1}, 2e, 2c, 2a, 5,08, 15 x 5,08 = 76,20, 8,17, 51, 15,7, 0,2</p> <p>View from termination side</p> <p>Shell housing 09 05 048 0501 see chapter 20</p> | |

DIN Power up to 6 A

| Identification | Identification Wire gauge | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 |
|---|---------------------------|----------------|---|
| | | 2 | 1 |
| Female crimp FC contacts | | | |
| Bandoliered contacts (approx. 2,500 pieces) | 1 | 09 06 000 6484 | 09 06 000 6474 |
| | 2 | 09 06 000 6481 | 09 06 000 6471 |
| | 3 | 09 06 000 6482 | 09 06 000 6472 |
| Bandoliered contacts (approx. 250 pieces) | 1 | 09 06 000 7484 | 09 06 000 7474 |
| | 2 | 09 06 000 7481 | 09 06 000 7471 |
| | 3 | 09 06 000 7482 | 09 06 000 7472 |
| Individual contacts ¹⁾ | 1 | 09 06 000 8484 | 09 06 000 8474 |
| | 2 | 09 06 000 8481 | 09 06 000 8471 |
| | 3 | 09 06 000 8482 | 09 06 000 8472 |
| Female contacts with solder lugs ²⁾ (lockable) | | | 09 06 000 6420 |

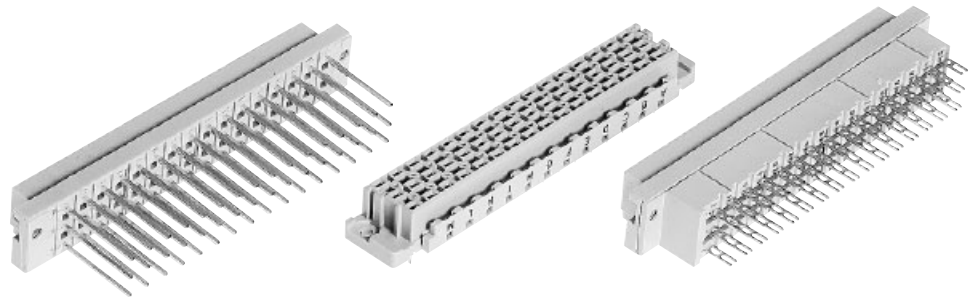
| | Wire gauge mm ² | AWG | Insulation ø mm | Identification |
|---|----------------------------|---------|-----------------|--|
| FC 1 | 0.09 - 0.25 | 28 - 24 | 0.7 - 1.5 | <p>Bandoliered contacts</p> <p>Individual contacts</p> |
| FC 2 | 0.14 - 0.56 | 26 - 20 | 0.8 - 2.0 | |
| FC 3 | 0.5 - 1.5 | 20 - 16 | 1.6 - 2.8 | |
| 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 | | | | |

^{c)} Connectors with coding see chapter 00
^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

¹⁾ Packaging unit 1,000 pieces
²⁾ Solder contacts must not be used together with shell housing A. Special contact surface: 2 µm gold.

Number of contacts

48

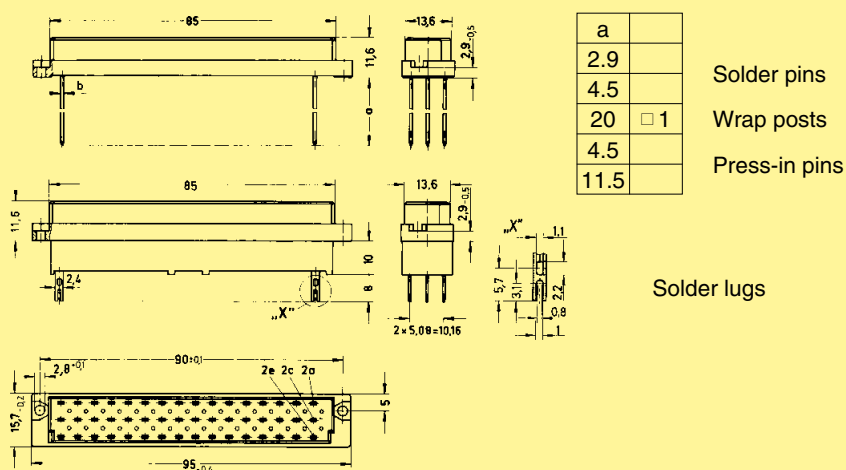


Female connectors

DIN Power
up to 6 A

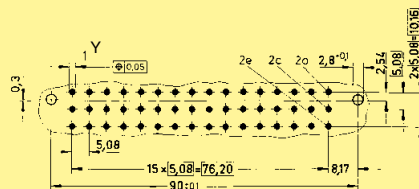
| Identification | Number of contacts | Contact arrangement | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 | 3 | 2 | 1 |
|---|--------------------|---------------------|----------------|---|--|--|---|
| Female connector with solder pins 2.9 mm | 48 | | 09 05 248 7832 | | 09 05 248 6832 | 09 05 248 2832 | |
| 4.5 mm | 48 | | | | 09 05 248 6831 09 05 348 6831 ^{b)} 09 05 748 6831 ^{c)} 09 05 848 6831 ^{b)c)} | 09 05 248 2831 09 05 248 2831 222 ^{f)} 09 05 748 2831 ^{c)} | |
| Female connector with wrap posts 20 mm | 48 | | 09 05 248 7821 | | 09 05 248 6821 | 09 05 248 2821 | |
| Female connector with solder lugs | 48 | | 09 05 248 7823 | | 09 05 248 6823 | 09 05 248 2823 | |
| Female connector with press-in pins 4.5 mm | 48 | | | | | 09 05 248 2854 | |
| 11.5 mm | 48 | | | | 09 05 248 6851* 09 05 248 6851 222 ^{*f)} | 09 05 248 2851* | |

Dimensions



Board drillings

Mounting side



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

Dimensions in mm

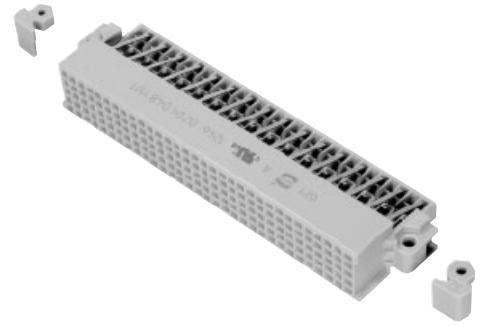
* Wrap posts for interfacing selectively gold plated (performance level 2)
^{b)} Connectors with snap-in clips see chapter 00
^{c)} Connectors with coding see chapter 00

^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

48

Female connectors



Identification

Female connector with angled solder pins

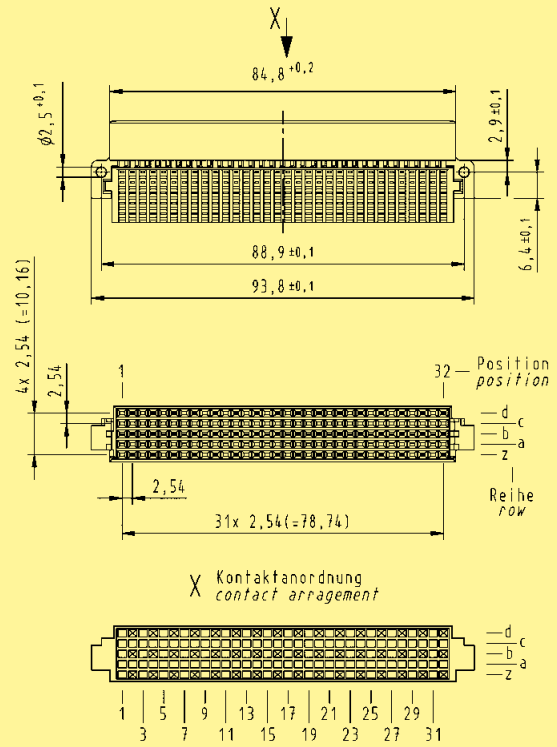
Part No.

Performance level 1

02 04 048 1101

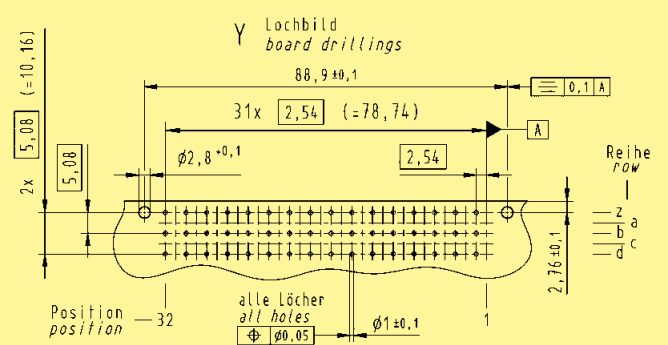
Drawing

Dimensions in mm



DIN Power up to 6 A

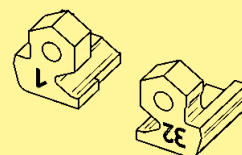
Board drillings
Mounting side



Fixing bracket

Position 1
Position 32

02 09 000 0018
02 09 000 0017



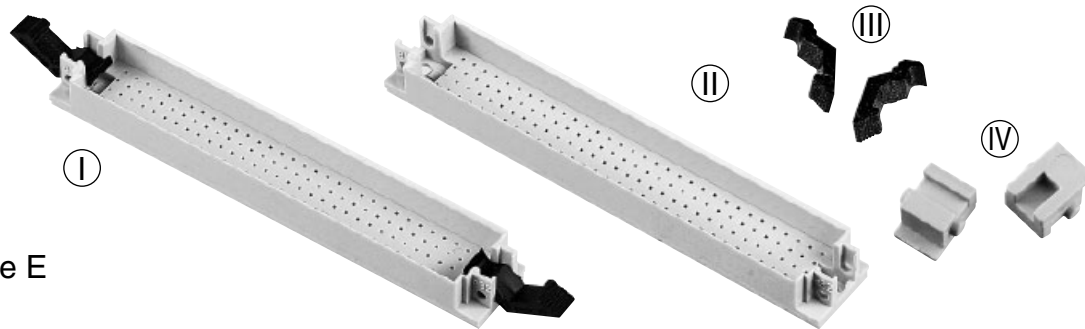
Dimensions in mm

Pin shroud



Number of contacts

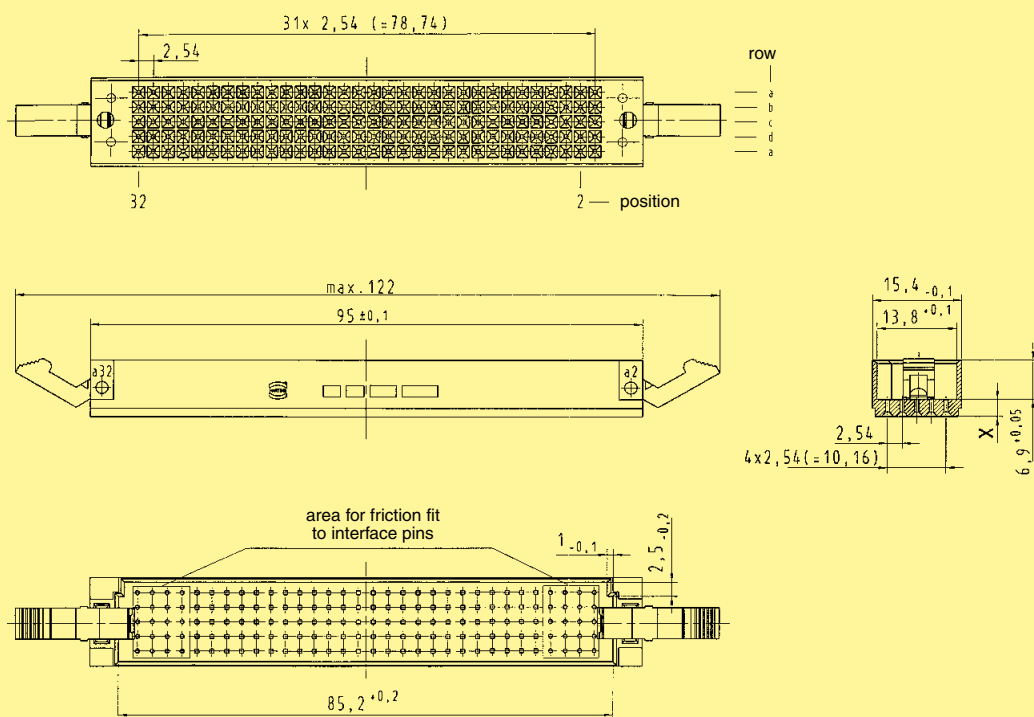
48



Pin shrouds for type E with press-in pins

| Identification | pcb-thickness + 0.2 / - 0.3 | Dimension X - 0.1 | Part No. |
|---|--------------------------------|----------------------|------------------------------|
| Pin shrouds | | | |
| Ⓘ with locking levers | 2.8 | 3.6 | 09 05 000 9924 |
| Ⓜ without locking levers | 2.8 | 3.6 | 09 05 000 9914 ¹⁾ |
| Ⓘ with locking levers | 3.4 | 3.0 | 09 05 000 9922 |
| Ⓜ without locking levers | 3.4 | 3.0 | 09 05 000 9912 ¹⁾ |
| Ⓜ Locking lever for female connector type E ¹⁾ | | | 09 03 000 9914 |
| Ⓜ Fixing brackets for shell housing C ¹⁾ | | | 09 03 000 9921 ¹⁾ |

Dimensions



Dimensions in mm

¹⁾ order 2 pieces per connector

¹⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

DIN Power up to 6 A

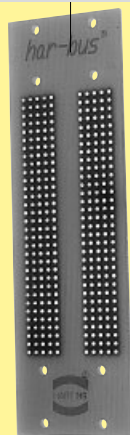
03
20

Application 1

Female connector
09 05 248 6851



Backplane



Pin shroud
09 05 000 9912



Fixing brackets
09 03 000 9921



Shell housing C
09 05 048 0501



Female connector
with crimp contacts
09 05 048 3202

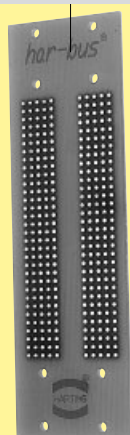
Locking lever
left 09 02 000 9902
right 09 02 000 9903

Application 2

Female connector
09 05 248 6851



Backplane



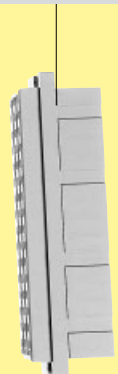
Pin shroud
09 05 000 9912



Locking lever
09 03 000 9914



Female connector
for crimp contacts
09 05 048 3202

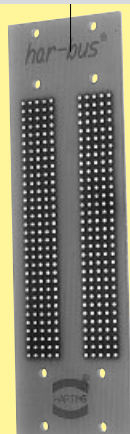


Application 3

Female connector
09 05 248 6851



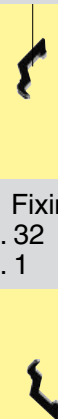
Backplane



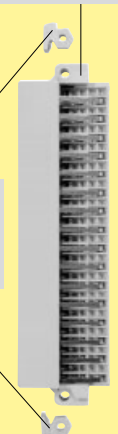
Pin shroud
09 05 000 9912



Locking lever
09 03 000 9914



Female connector
02 04 048 1101



Fixing brackets
Pos. 32 02 09 000 0017
Pos. 1 02 09 000 0018

DIN Power
up to 6 A

| | |
|---|---|
| Number of contacts | 16, 32, 48 |
| Working current see current carrying capacity chart | 6 A max. |
| Clearance | |
| 16 ways | ≥ 1.6 mm |
| 32, 48 ways | ≥ 1.6 mm |
| Creepage | |
| 16 ways | ≥ 1.6 mm |
| 32, 48 ways | ≥ 3.0 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 |
| Contact resistance | ≤ 20 mΩ |
| Insulation resistance | ≥ 10 ¹² Ω for standard articles |

| | |
|-------------|--|
| Termination | Crimp terminal 0.09-1.5 mm ² |
|-------------|--|

| | |
|---------------------|--|
| Materials | |
| Mouldings and hoods | Thermoplastic resin, glass-fibre filled |
| Contacts | Copper alloy |

Piggyback connectors for interfacing with female connectors with wrap posts 1 x 1 mm

The problem of interfacing systems designed for the distribution or collection of electronic signals can be overcome by the use of piggyback connectors. Designed to be mounted on the rear of DIN 41 612 type wire wrap female connectors (1 x 1 mm posts) these piggyback elements can be used to terminate input and output cables.

Distance fixing brackets are fitted to provide either a latching or screw fixing facility over the two level wire wrap plane.

The female crimp contacts used in these versions are designed for 1 x 1 mm posts.

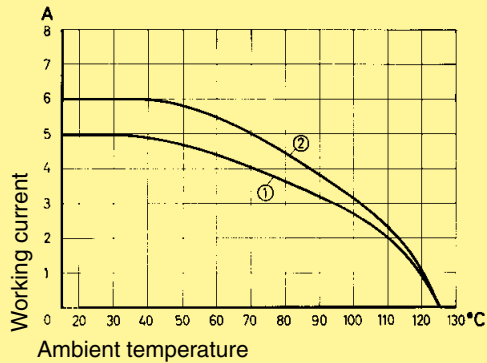
After crimping they can be easily inserted into the chambers of the connector body with the aid of an insertion tool. Insertion errors can be simply rectified with the use of a removal tool.

2 and 3 row piggyback connectors can be mounted in shell housings C and open hood G. Security is provided by either latches or screws to the distance fixing brackets.

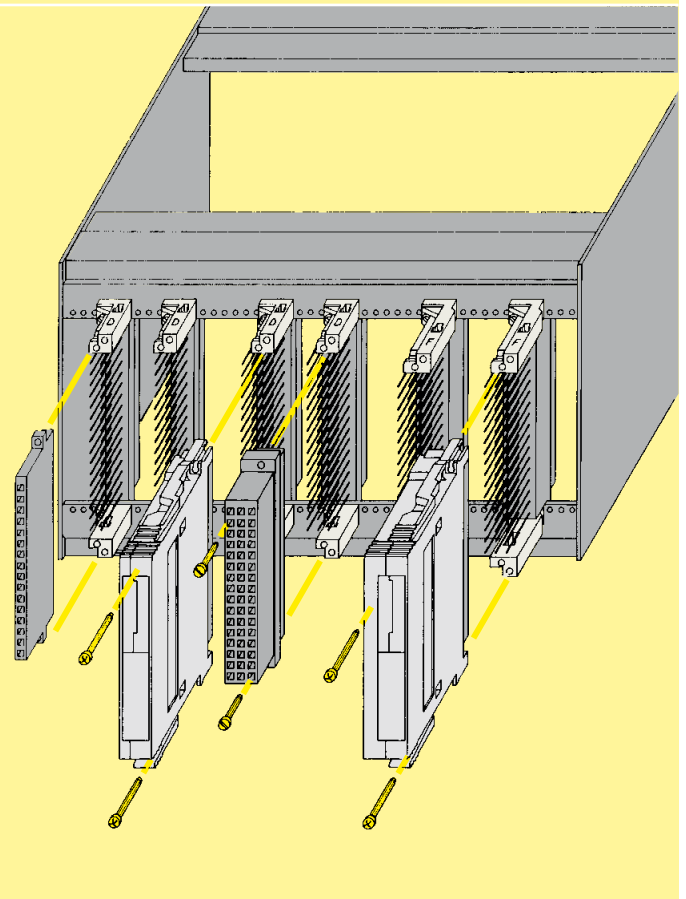
Current carrying capacity

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



① with shell housing ② without shell housing

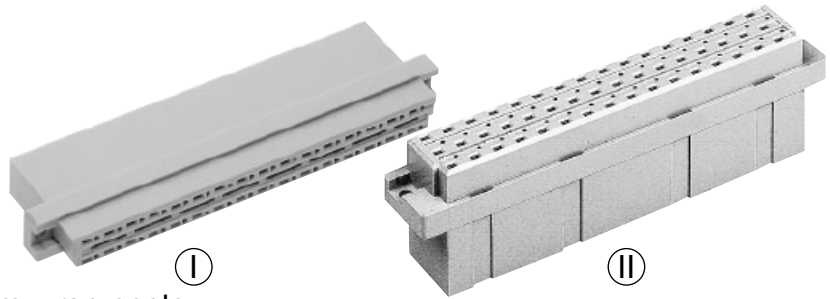


Piggyback connectors



Number of contacts

max. 48



Piggyback connectors for 1 x 1 mm wrap posts

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|--|--------------------|------------------------------|---------|---|
| Piggyback connector for crimp contacts Order contacts separately I | 16 | 09 04 016 3201 ¹⁾ | | |
| | 32 | 09 04 032 3215 ¹⁾ | | Reihe row a c - Position position |
| | 48 | 09 05 048 3204 ¹⁾ | | |

DIN Power up to 6 A

03-23

¹⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

max. 48

Ⓛ



Ⓜ



Accessories

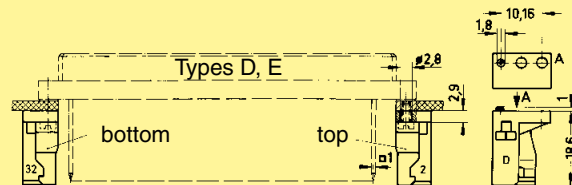
| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|--|--------------------|--|---|---|
| Female FC crimp contacts individual contacts ¹⁾ | FC1 FC2 FC3 | 09 06 000 6464 09 06 000 6461 09 06 000 6462 | Identification Wire gauge mm ² AWG Insulations ø mm | 1 0.09-0.25 28-24 0.7-1.5 2 0.14-0.56 26-20 0.8-2.0 3 0.50-1.50 20-16 1.6-2.8 |
| Bandoliered contacts (approx. 2,500 pcs.) | FC1 FC2 FC3 | 09 06 000 6454 09 06 000 6451 09 06 000 6452 | 1 0.09-0.25 28-34 0.7-1.5 2 0.14-0.56 26-20 0.8-2.0 3 0.50-1.50 20-16 1.6-2.8 | 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) Crimping tools see chapter 30 |
| Mateable with 1 x 1 mm wrap posts | | | | |

Distance fixing brackets for female connectors

Type D
Type E

top (pos. 2)
09 04 000 9907¹⁾

bottom (pos. 32)
09 04 000 9906¹⁾



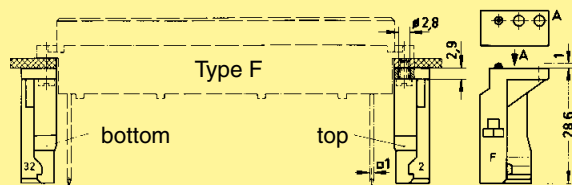
Type F

Ⓛ

top (pos. 2)
09 06 000 9936¹⁾

Ⓜ

bottom (pos. 32)
09 06 000 9937¹⁾



¹⁾ Packaging unit 1,000 pieces

²⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

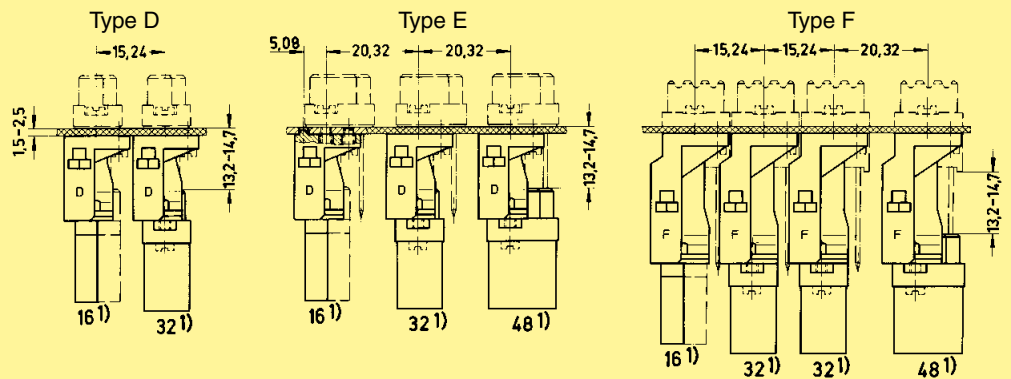
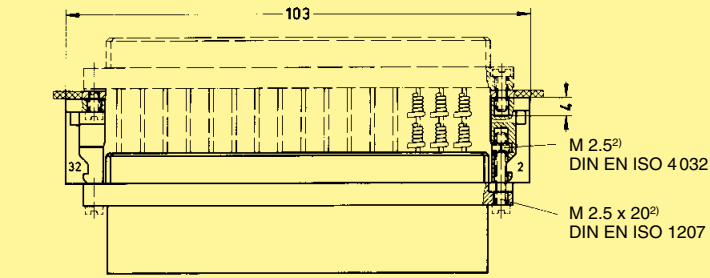
Identification

Drawing

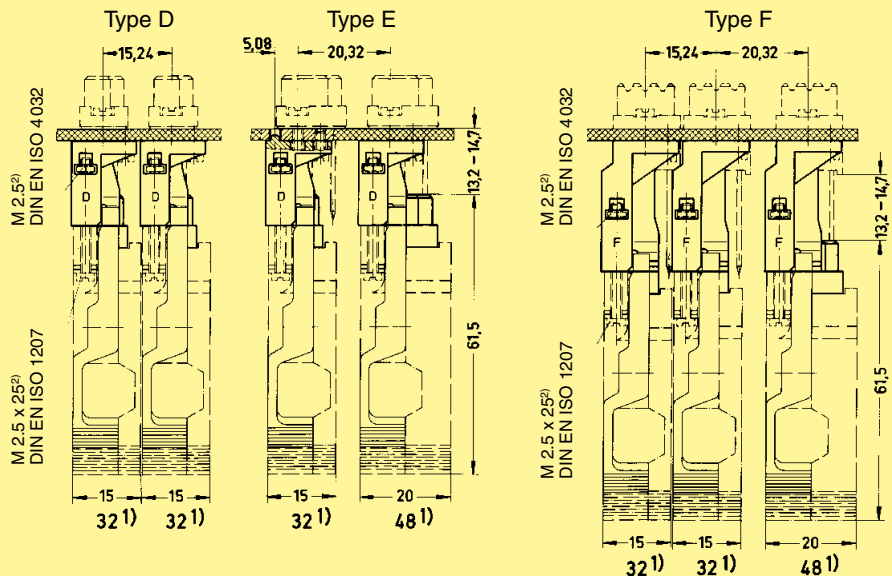
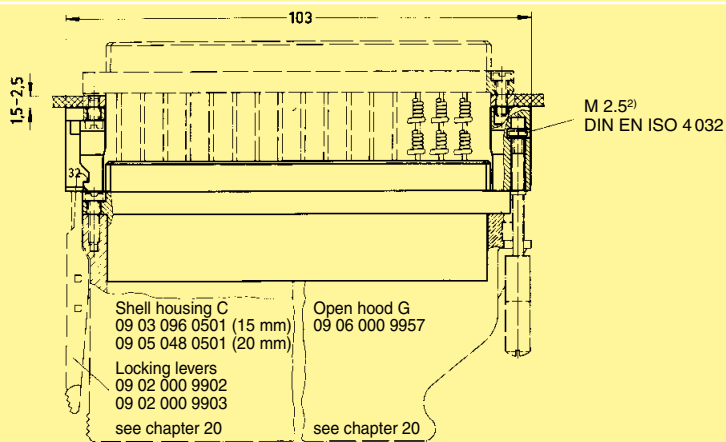
Dimensions in mm

Mounting examples
of piggyback
connectors

without housings



with housings



DIN Power
up to 6 A

1) Number of contacts piggyback connector
2) Doesn't belong to the scope of supply

Number of contacts

| | |
|---------|---------|
| Type F | 48, 32 |
| Type FM | 45 |
| Type 2F | max. 24 |
| Type F9 | max. 9 |

Contact spacing (mm)

5.08

Working current

6 A max.

see current carrying capacity chart

Clearance

≥ 1.6 mm

Creepage

≥ 3.0 mm

Working voltage

The working voltage also depends on the clearance and creepage dimensions on the pcb itself and the associated wiring

according to the safety regulations of the equipment
Explanations see chapter 00

Test voltage $U_{r.m.s.}$

1.55 kV (contact-contact)
2.5 kV (contact-ground)

Contact resistance

≤ 15 mΩ

Insulation resistance

≥ 10¹² Ω for standard articles
≥ 10¹¹ 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
During reflow soldering

– 40 °C ... + 105 °C
for press-in connector

max. + 240 °C for 15 s
for SMC connectors

Electrical termination

Solder pins for pcb connections Ø 1 ± 0.1 mm according to IEC 60 326-3
Wrap posts 1 x 1 mm diagonal 1.34-1.45 mm
Crimp terminal 0.09-1.5 mm²
Angled solder pins 1 x 1 mm for pcb connections Ø 1.6 ± 0.1 mm
Solder lugs
Compliant press-in terminations
pcb thickness
Recommended pcb holes for press-in technology
See recommendation page 00.25 in acc. to EN 60 352-5

Insertion and withdrawal force

48 way ≤ 75 N
45 way ≤ 70 N
32 way ≤ 50 N
24 way ≤ 37 N

Materials

Mouldings

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

Contacts

Contact surface

Contact zone

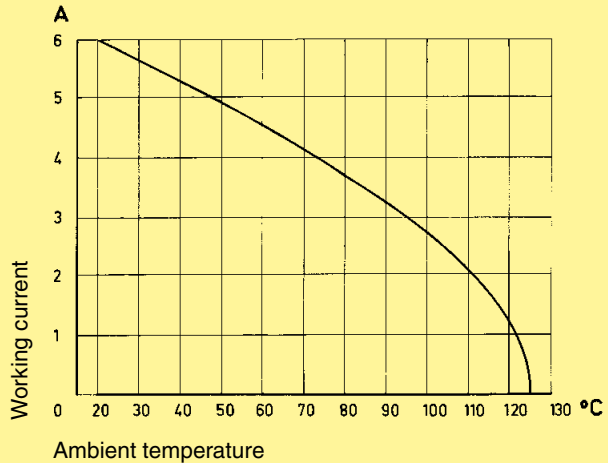
Selectively plated according to performance level¹⁾

¹⁾ Explanation of performance levels 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

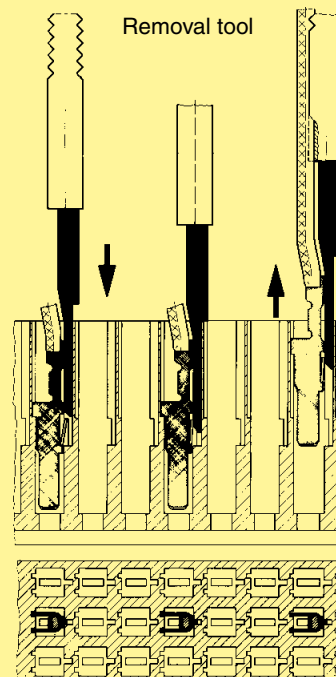


Fitting the crimp contacts

After crimping the wires onto the contacts with the help of a crimping tool or an automatic crimping machine the contacts should be correctly oriented and inserted into the cavities of the connector moulding in the required configuration. They snap into position and are firmly held in place. A light pull on the wire assures the correct tensile strength of the contact. When using stranded wires with a gauge below 0.37 mm² an insertion tool is necessary.

Removing the crimp contacts

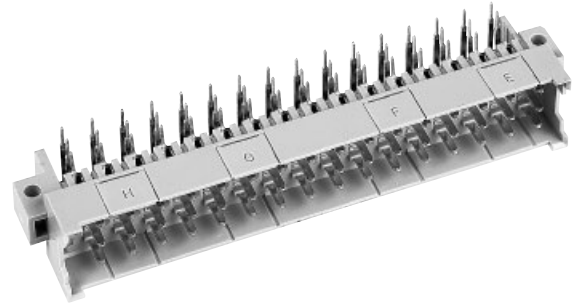
The removal tool is inserted into a slot on the termination side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damage to the contact/wire which can be repositioned/refitted as necessary. The drawing demonstrates the crimp removal procedure (max. 5x).



DIN Power up to 6 A

Number of contacts

48, 32

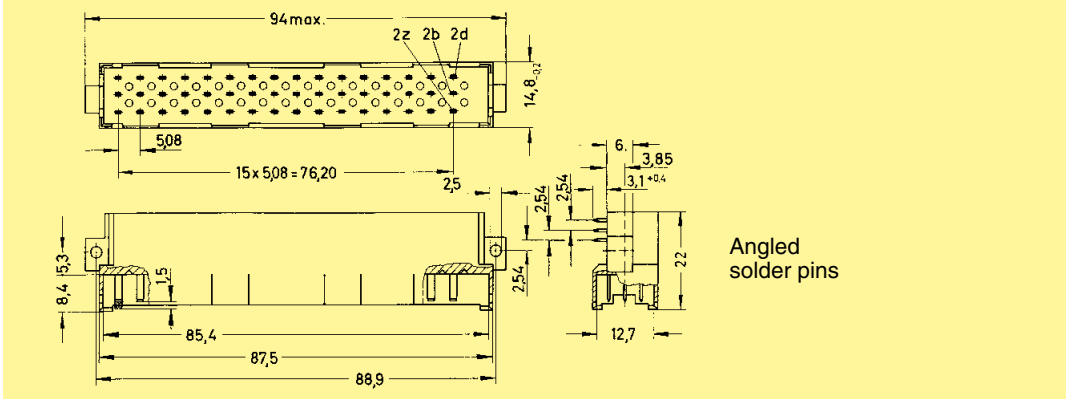


Male connectors

| Identification | Number of contacts | Contact arrangement | Part No. Performance levels according to IEC 60603-2. Explanation chapter 00 | | |
|--|--------------------|---------------------|--|----------------------------------|----------------------------------|
| | | | 3 | 2 | 1 |
| Male connector with angled solder pins ¹⁾ | 48 | | 09 06 148 7901 | 09 06 148 6901 | 09 06 148 2901 |
| | | | | 09 06 148 6901 222 ^{f)} | 09 06 148 2901 222 ^{f)} |
| | 48 | | 09 06 148 6951 ^{d)} | 09 06 148 6951 ^{b)d)} | 09 06 348 2951 ^{b)d)} |
| | | | | 09 06 348 6901 ^{b)} | |
| | 32 | | 09 06 132 7901 | 09 06 132 6901 | 09 06 132 2901 |
| | | | | 09 06 332 7901 ^{b)} | 09 06 132 6901 222 ^{f)} |
| | 32 | | 09 06 132 7931 | 09 06 132 6931 | 09 06 132 2931 |
| 09 06 132 6931 222 ^{f)} | | | | 09 06 332 2931 ^{b)} | |
| 47 + 1 | | | 09 06 148 6921 | 09 06 148 2921 | |
| 31 + 1 | | 09 06 132 7921 | 09 06 132 6921 | 09 06 132 2921 | |
| 46 + 2 | | | 09 06 148 6925 | 09 06 148 2925 | |
| | | | 09 06 148 6925 222 ^{f)} | | |

DIN Power up to 6 A

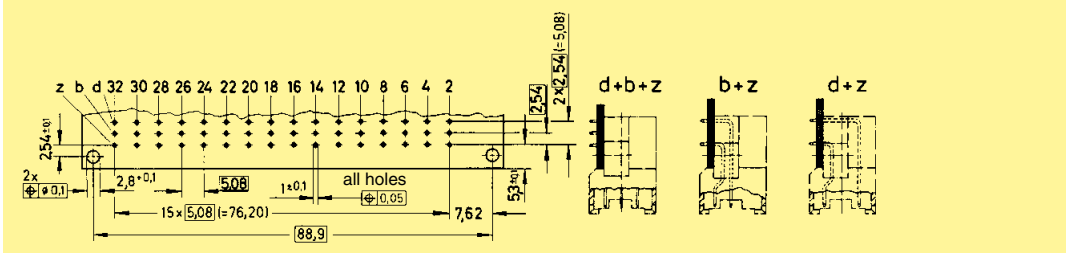
Dimensions



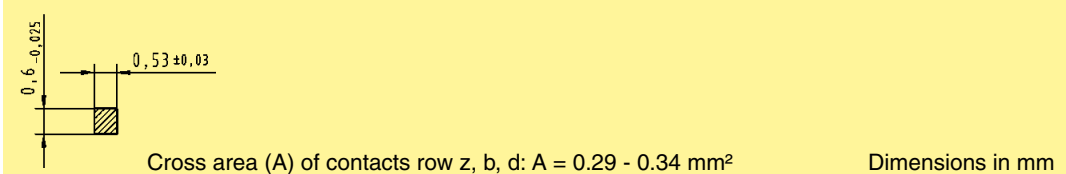
Angled solder pins

Board drillings

Mounting side



Cross section of solder terminations

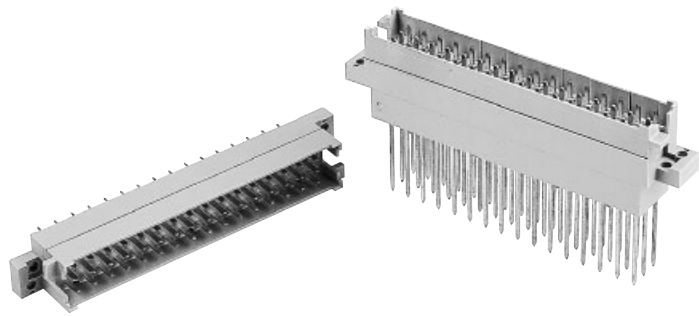


03
27

1) With shroud coding, see also chapter 00
 b) Connectors with snap-in clips see chapter 00
 d) CTI > 400
 f) Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

48, 32



Interface connectors I

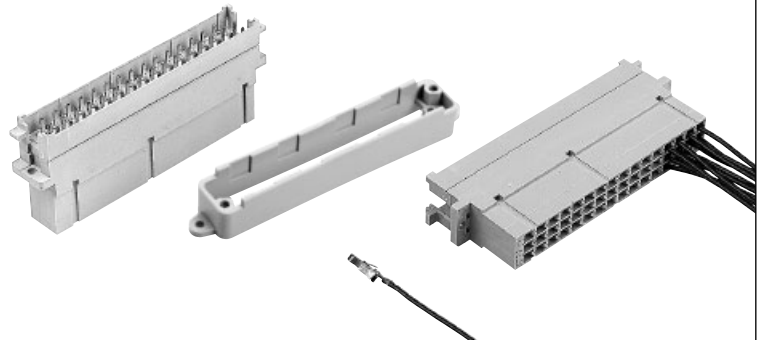
DIN Power
up to 6 A

| Identification | Number of contacts | Contact arrangement | Part No. | Drawing | Dimensions in mm |
|--|--------------------|---------------------|--|---|------------------|
| Interface connector I with solder pins ¹⁾ 0.6 x 0.6 mm | 48 | | Performance level 1* 09 06 048 2905 ^{f)} | | |
| | 32 | | 09 06 032 2905 ^{f)} | | |
| | 32 | | 09 06 032 2941 ^{f)} | | |
| Board drillings Mounting side | | | | | |
| Interface connector I with wrap posts ¹⁾ 1 x 1 mm | without nut | | Performance level 1* 09 06 048 2903 ^{f)} | | |
| | with nut | | 09 06 048 2963 ^{f)} | | |
| | without nut | | 09 06 032 2903 ^{f)} | | |
| Panel cut out | | | | | |
| | | | | Contact arrangement View from termination side | |

* Acc. to IEC 60 603-2, performance level 2 on request
¹⁾ With shroud coding, see also chapter 00
^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

48



Interface connector I

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|----------------|--------------------|----------|---------|------------------|
|----------------|--------------------|----------|---------|------------------|

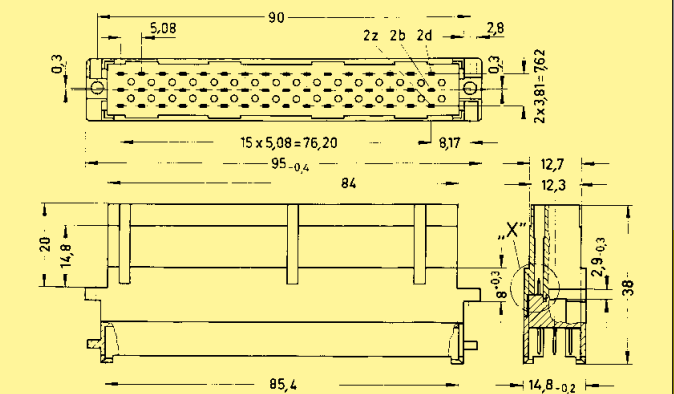
Interface connector I utilising female crimp contacts¹⁾

Order crimp contacts separately see page 03.31

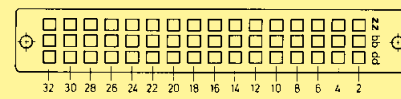
48

Performance level 1 acc. to IEC 60 603-2

09 06 048 2906¹⁾

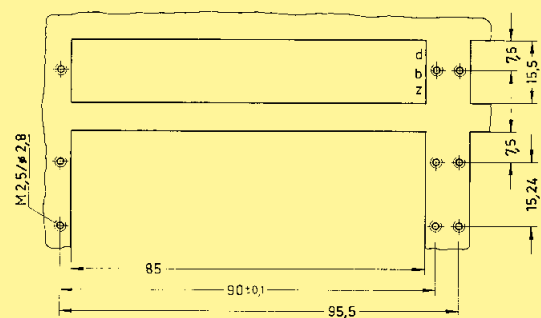


Contact arrangement View from termination side



Shell housing see chapter 20

Panel cut out

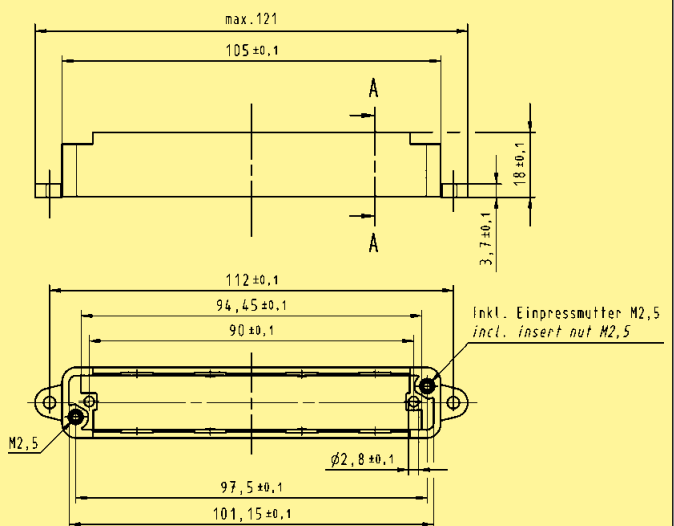


Shroud¹⁾

for screw-fixing of shell housing D20 plastic or D20 metallised .

The shroud is assembled onto the Interface connector I and is screwfixed onto the pcb or to the rack.

09 06 001 9964



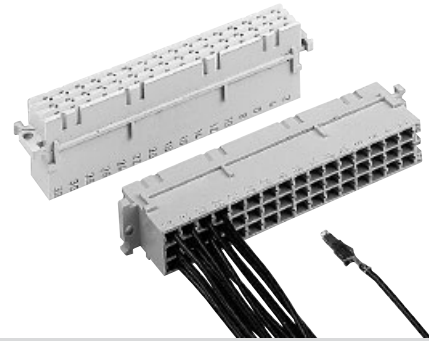
DIN Power up to 6 A

¹⁾ With shroud coding, see also chapter 00

¹⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

max. 48



Female connectors

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|--|--------------------|--|---|------------------|
| Female connector for crimp contacts ¹⁾ Order contacts separately | 48 | 09 06 248 3201 09 06 248 3201 222 ^{f)} | <p>Contact arrangement View from termination side</p> | |

DIN Power up to 6 A

| Identification | Identification Wire gauge | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 |
|---|---------------------------|----------------|---|
| | | | 2 |
| | | | 1 |
| Female crimp FC contacts | | | |
| Bandoliered contacts (approx. 2,500 pieces) | 1 | 09 06 000 6484 | 09 06 000 6474 |
| | 2 | 09 06 000 6481 | 09 06 000 6471 |
| | 3 | 09 06 000 6482 | 09 06 000 6472 |
| Bandoliered contacts (approx. 250 pieces) | 1 | 09 06 000 7484 | 09 06 000 7474 |
| | 2 | 09 06 000 7481 | 09 06 000 7471 |
| | 3 | 09 06 000 7482 | 09 06 000 7472 |
| Individual contacts ²⁾ | 1 | 09 06 000 8484 | 09 06 000 8474 |
| | 2 | 09 06 000 8481 | 09 06 000 8471 |
| | 3 | 09 06 000 8482 | 09 06 000 8472 |
| Female contacts with solder lugs ³⁾ (lockable) | | | 09 06 000 6420 |

| Wire gauge mm ² | AWG | Insulation ø mm | Identification |
|----------------------------|-----|---------------------|----------------|
| FC 1 | 1 | 0.09 - 0.25 28 - 24 | 0.7 - 1.5 |
| FC 2 | 2 | 0.14 - 0.56 26 - 20 | 0.8 - 2.0 |
| FC 3 | 3 | 0.5 - 1.5 20 - 16 | 1.6 - 2.8 |

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

¹⁾ With shroud coding, see also chapter 00

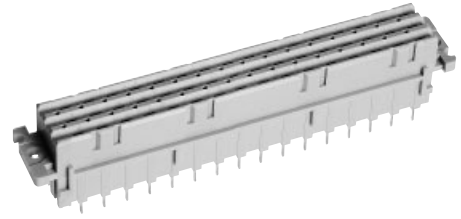
²⁾ Packaging unit 1,000 pieces

³⁾ Solder contacts must not be used together with shell housing A. Special contact surface: 2 µm gold.

^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

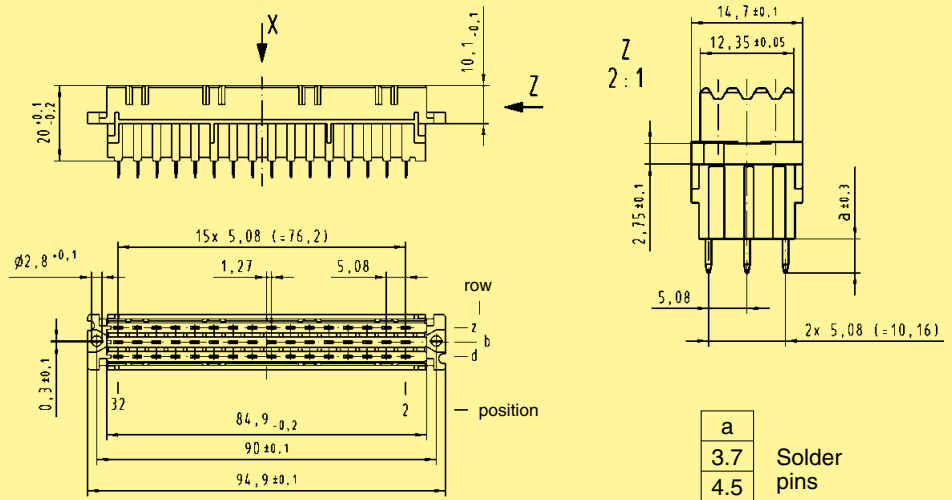
48, 32



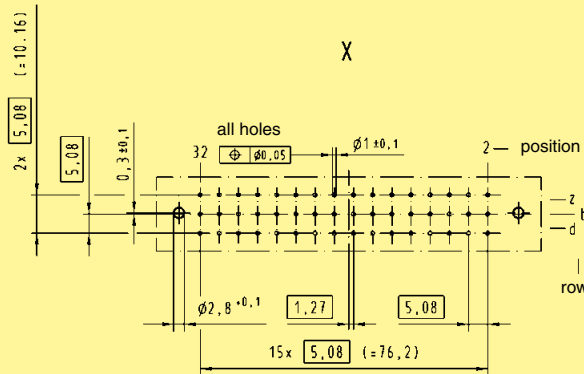
Female connectors

| Identification | Number of contacts | Contact arrangement | Part No. | Performance levels according to IEC 60 603-2. Explanation chapter 00 | |
|--|--------------------|---------------------|----------------|--|----------------|
| | | | 3 | 2 | 1 |
| Female connector with solder pins 3.7 mm ¹⁾ | 48 | | | 09 06 248 6848 | 09 06 248 2848 |
| | 32 | | | 09 06 232 6848 | 09 06 232 2848 |
| | 32 | | | 09 06 232 6858 | |
| Female connector with solder pins 4.5 mm ¹⁾ | 48 | | 09 06 248 7835 | 09 06 248 6835 09 06 248 6835 222 ^{f)} | 09 06 248 2835 |
| | 32 | | | 09 06 232 6835 | 09 06 232 2835 |
| | 32 | | | 09 06 232 6845 | 09 06 232 2845 |

Dimensions



Board drillings
Mounting side



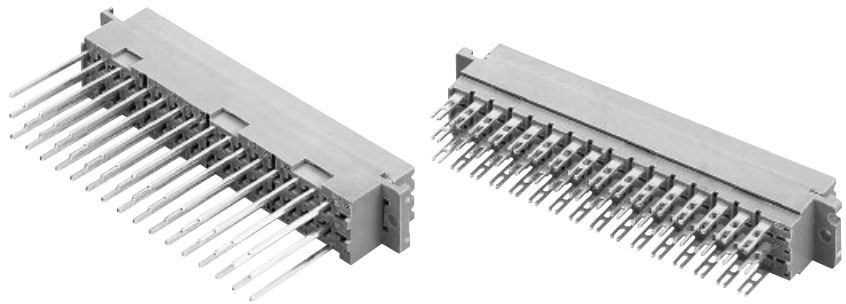
Dimensions in mm

¹⁾ With shroud coding, see also chapter 00

^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

48, 32

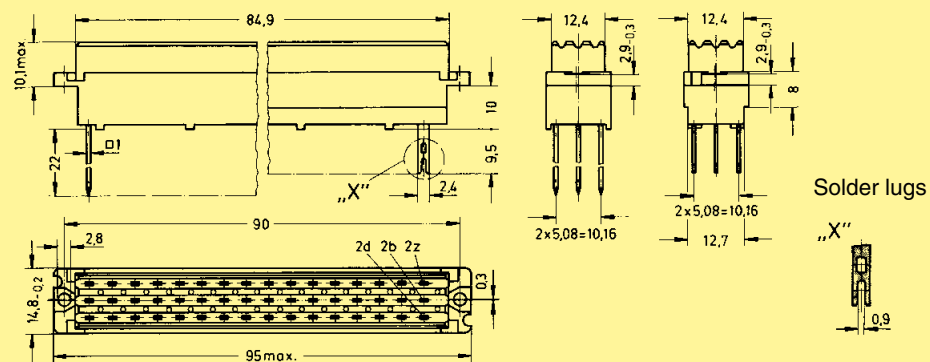


Female connectors

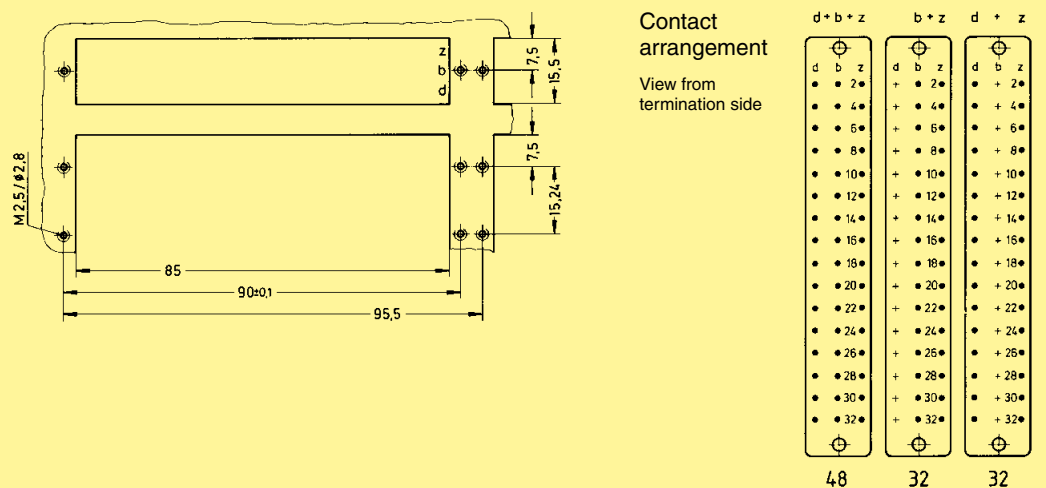
| Identification | Number of contacts | Contact arrangement | Part No. Performance levels according to IEC 60 603-2. Explanation chapter 00 | | |
|--|--------------------|---------------------|---|--|--|
| | | | 3 | 2 | 1 |
| Female connector with wrap posts 22 mm | 48 | | 09 06 248 7821 | 09 06 248 6821 09 06 248 6821 222 ^{f)} | 09 06 248 2821 09 06 248 2821 222 ^{f)} |
| | 32 | | 09 06 232 7821 | 09 06 232 6821 | 09 06 232 2821 |
| | 32 | | 09 06 232 7831 | 09 06 232 6831 | 09 06 232 2831 |
| Female connector with solder lugs open solder lug | 48 | | 09 06 248 7823 | 09 06 248 6823 | 09 06 248 2823 |
| | 32 | | 09 06 232 7823 | 09 06 232 6823 | 09 06 232 2823 |
| | 32 | | 09 06 232 7843 | 09 06 232 6843 09 06 232 6843 222 ^{f)} | 09 06 232 2843 |

DIN Power up to 6 A

Dimensions



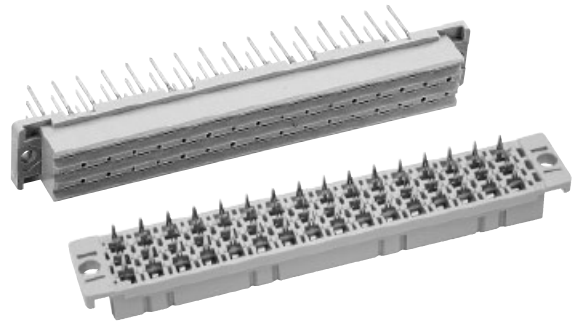
Panel cut out



Dimensions in mm

Number of contacts

48, 32

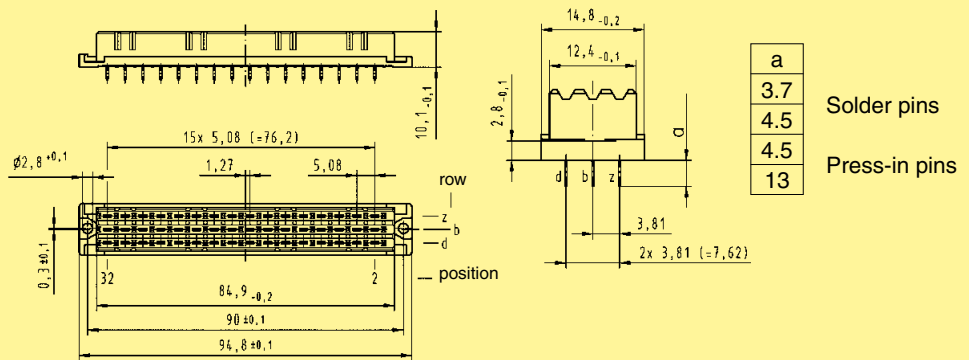


Female connectors

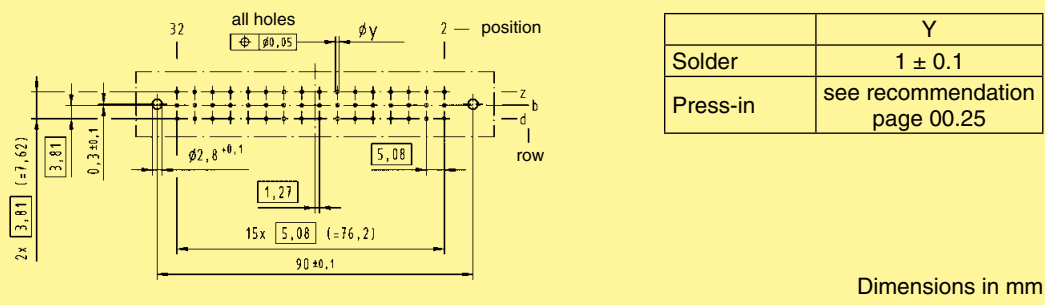
| Identification | Number of contacts | Contact arrangement | Part No. Performance levels according to IEC 60 603-2. Explanation chapter 00 | | |
|---|--------------------|---------------------|---|--|--|
| | | | 3 | 2 | 1 |
| Female connector ¹⁾ "low profile" with solder pins 3.7 mm | 48 | | 09 06 248 7833 | 09 06 248 6833 09 06 248 6833 222 ^{f)} | 09 06 248 2833 09 06 248 2833 222 ^{f)} |
| | 32 | | | 09 06 232 6833 | |
| | 32 | | | 09 06 232 6893 | |
| Female connector ¹⁾ "low profile" with solder pins 4.5 mm | 48 | | 09 06 248 7833 | 09 06 248 6834 09 06 248 6834 222 ^{f)} | 09 06 248 2834 |
| | 32 | | | 09 06 232 6834 | |
| | 32 | | | 09 06 232 7894 | 09 06 232 6894 |
| Female connector ¹⁾ "low profile" with press-in pins 4.5 mm | 48 | | 09 06 248 7832 | 09 06 248 6832 | 09 06 248 2832 09 06 248 2832 222 ^{f)} |
| | 32 | | | 09 06 232 6832 | 09 06 232 2832 |
| | 32 | | | 09 06 232 6892 | 09 06 232 2832 222 ^{f)} |
| Female connector "low profile" with press-in pins 13 mm | 48 | | 09 06 248 7832 | 09 06 248 6837 ^{w)} 09 06 248 6838* | |
| | 32 | | | 09 06 232 6897 ^{w)} | |

DIN Power
up to 6 A

Dimensions



Board drillings Mounting side

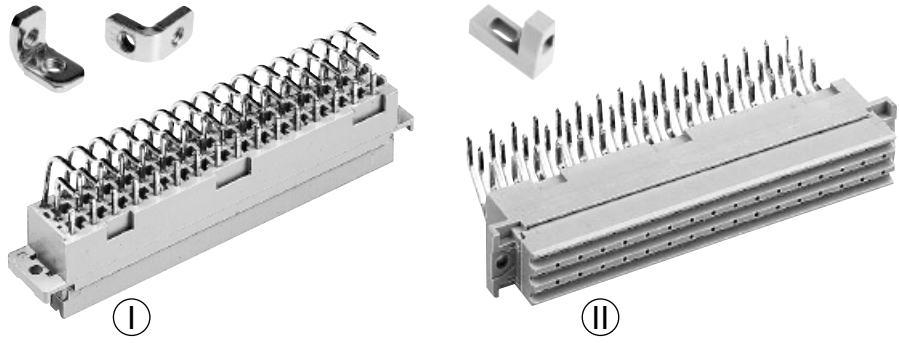


* Wrap posts for interfacing selectively gold plated (performance level 2)
¹⁾ With shroud coding, see also chapter 00
^{f)} Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2
^{w)} Wrap posts not for interfacing, no performance level

Number of contacts

48, 32

Female connectors

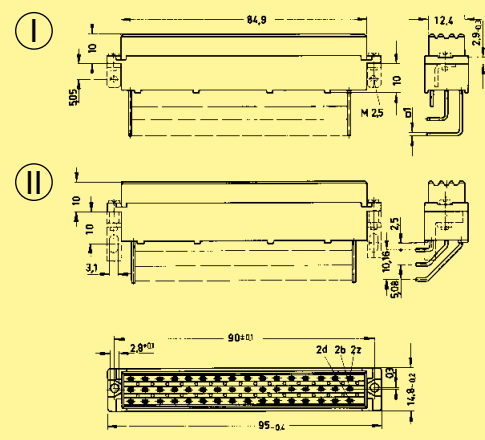


Identification Number of contacts Contact arrangement Part No. Performance levels according to IEC 60 603-2. Explanation chapter 00

| Identification | Number of contacts | Contact arrangement | Part No. | Performance levels according to IEC 60 603-2. Explanation chapter 00 |
|---|--------------------|---------------------|--------------------------------|--|
| | | | 3 | 2 1 |
| Female connector with angled solder pins 1 x 1 mm | 48 | | Performance level 3 on request | 09 06 248 6826 |
| | 32 | | | 09 06 232 6826 |
| | 48 | | | 09 06 248 6836 |
| | 32 | | | 09 06 232 6846 |
| | 32 | | | 09 06 232 6836 |

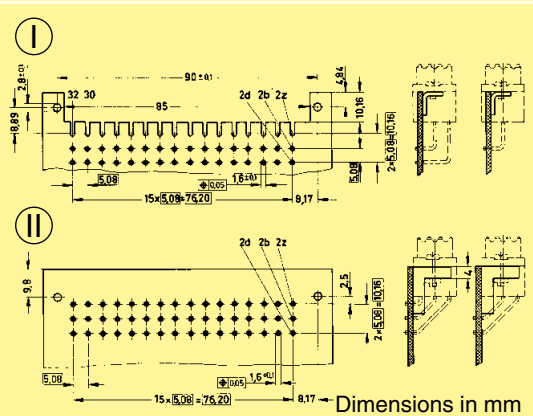
DIN Power up to 6 A

| Dimensions | Part No. | Performance levels |
|------------|----------|--------------------|
| | | |



| Fixing bracket | Material | Part No. | Version |
|----------------|----------|------------------------------|----------------|
| | Metal | 09 06 000 9912 ¹⁾ | for version I |
| | Plastic | 09 06 000 9975 ¹⁾ | for version II |

| Board drillings Mounting side | Part No. | Performance levels |
|-------------------------------|----------|--------------------|
| | | |



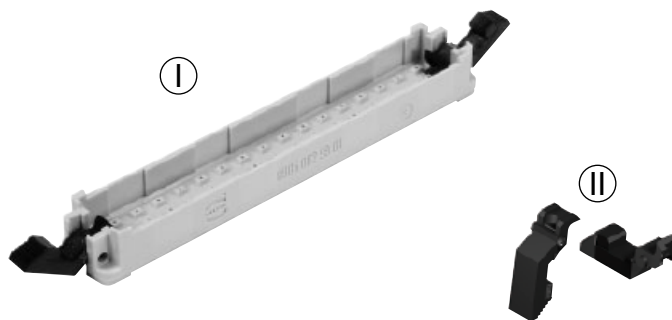
Pin shroud



Number of contacts

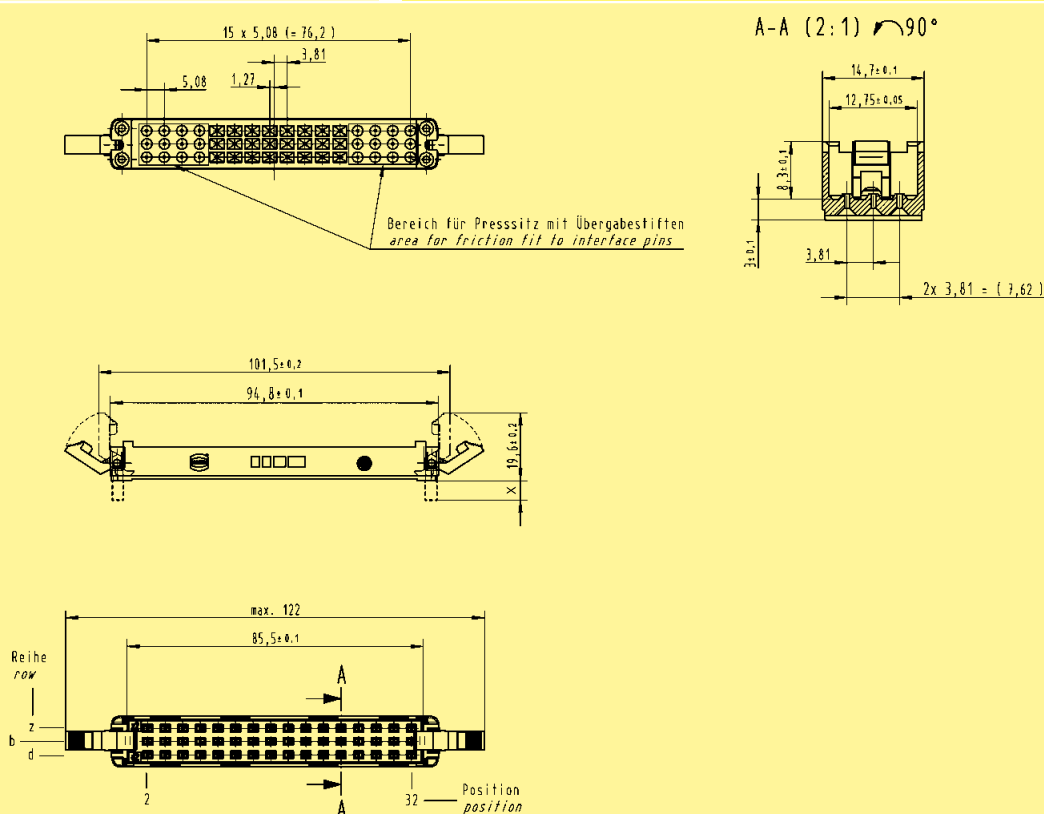
48

Pin shrouds
for type F “low profile”
with press-in pins 13 mm



| Identification | pcb-thickness ± 10 % | Dimension X ± 0.1 | Part No. |
|--|-------------------------|----------------------|----------------|
| Pin shrouds | | | |
| Ⓚ with locking levers ²⁾ and press-in fixing | 1.6 - 2.4 | 1.6 | 09 06 002 9902 |
| Ⓚ without locking levers for screw fixing | 1.6 - 2.4 | 1.6 | 09 06 002 9912 |
| Ⓚ with locking levers ²⁾ and press-in fixing | 3.2 - 4.0 | 0 | 09 06 002 9901 |
| Ⓚ without locking levers for screw fixing | 3.2 - 4.0 | 0 | 09 06 002 9911 |
| Ⓛ Locking lever for female connector type F ¹⁾ | | | 09 06 001 9946 |

Dimensions



Dimensions in mm

¹⁾ order 2 pieces per connector

²⁾ Press-in tools see chapter 30

DIN Power
up to 6 A

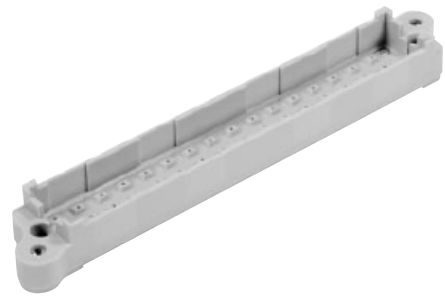
Pin shroud



Number of contacts

48

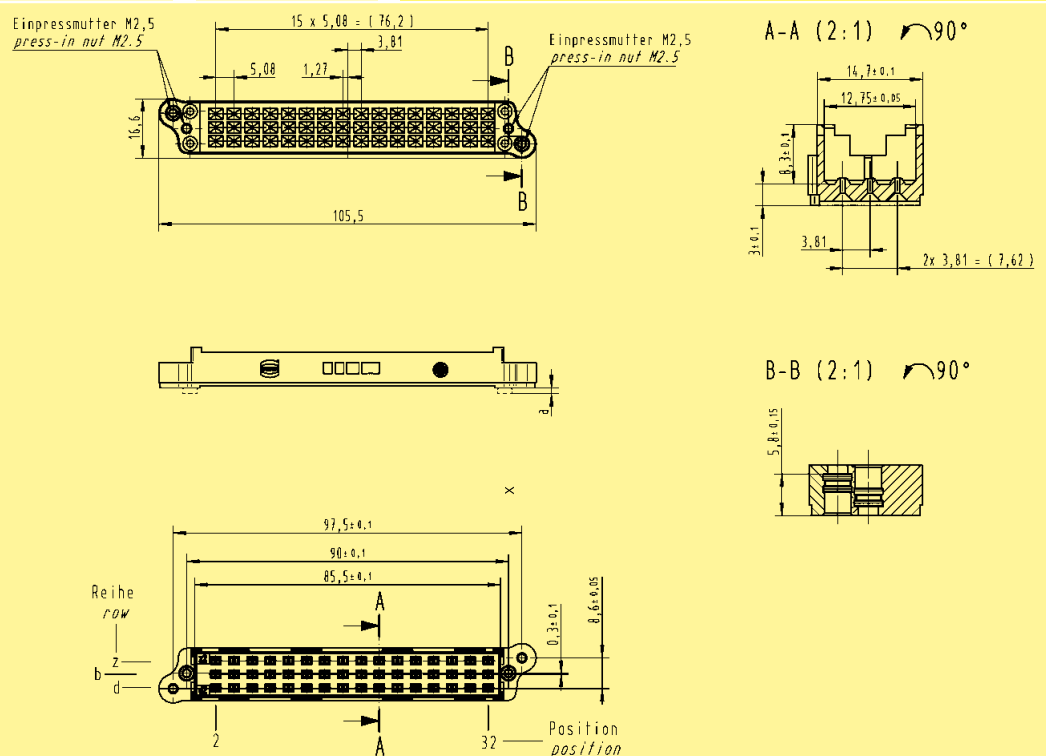
Pin shrouds
for type F “low profile”
with press-in pins 13 mm



| Identification | pcb-thickness ± 10 % | Dimension X ± 0.1 | Part No. |
|--|-------------------------|----------------------|----------------|
| Pin shrouds suitable for shell housing D20 | | | |
| without locking levers with press-in nuts | 1.6 - 2.4 | 1.6 | 09 06 002 9922 |
| without locking levers with press-in nuts | 3.2 - 4.0 | 0 | 09 06 002 9921 |

DIN Power
up to 6 A

Dimensions



Dimensions in mm

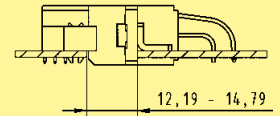
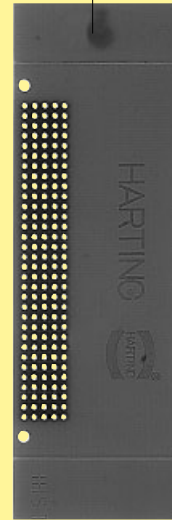
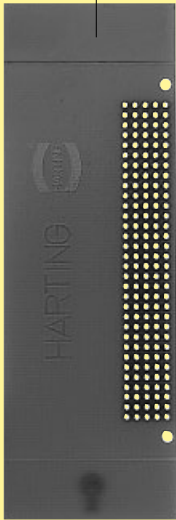
Application 1

Daughtercard

Male connector
09 06 148 6901

Female connector
09 06 248 6826

Daughtercard



DIN Power
up to 6 A

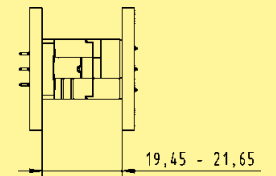
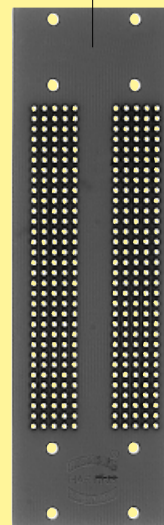
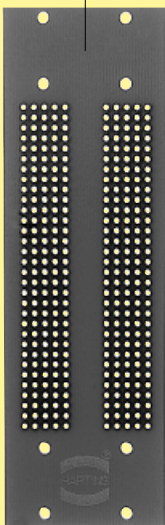
Application 2

Backplane

Male connector
09 06 048 2905

Female connector
09 06 248 2833

Backplane

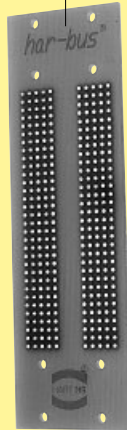


Application 3

Female connector
09 06 248 6838



Backplane



Pin shroud
09 06 002 9921



Shell housing D20
09 06 048 0521



Female connector
with crimp contacts
09 06 248 3201

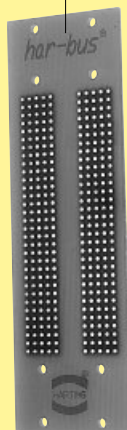
DIN Power
up to 6 A

Application 4

Female connector
09 06 248 6838



Backplane



Pin shroud
+ Locking lever
09 06 002 9901

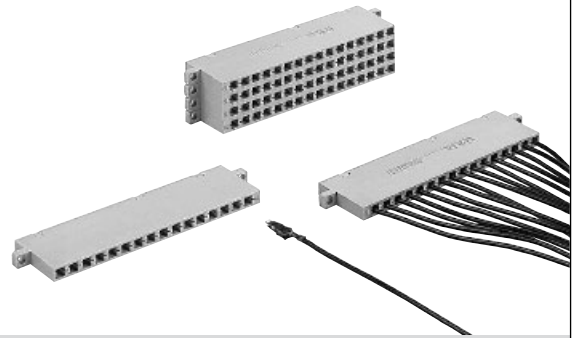


Female connector
for crimp contacts
09 06 248 3201



Number of contacts

64, 16



Universal adaptors

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|---|--------------------|------------------------------|---------|------------------|
| Universal adaptor utilising crimp contacts crimp contacts see page 03.31 | 4 x 4 | 09 06 016 3301 ¹⁾ | | |
| | 16 x 1 | 09 06 016 3302 ¹⁾ | | |
| | 16 x 4 | 09 06 064 3302 ¹⁾ | | |
| Panel cut out | | | | |

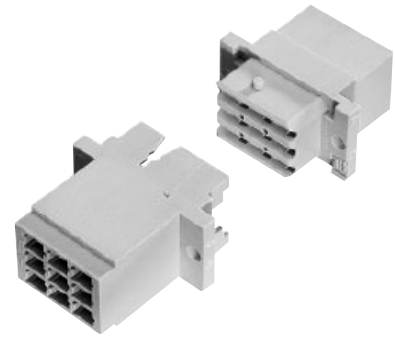
DIN Power up to 6 A

03
40

¹⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

max. 9



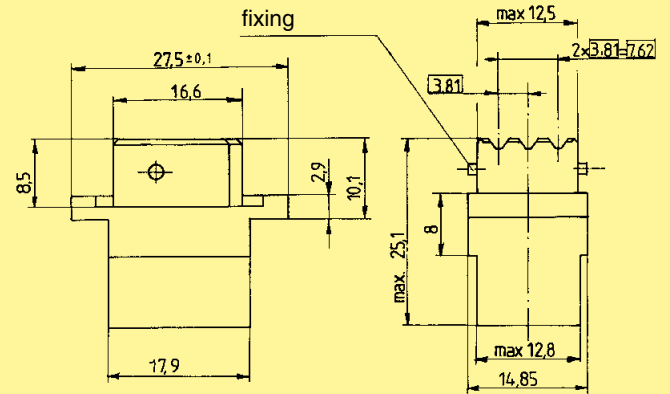
Female and male connectors

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|----------------|--------------------|----------|---------|------------------|
|----------------|--------------------|----------|---------|------------------|

Female connector for crimp contacts
Order contacts separately

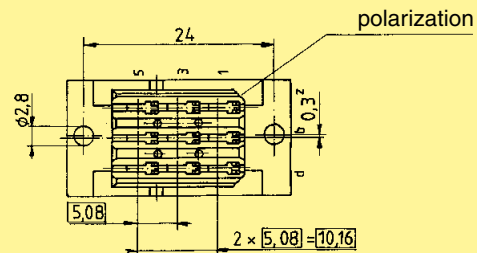
9

09 06 209 3201



Female crimp contacts

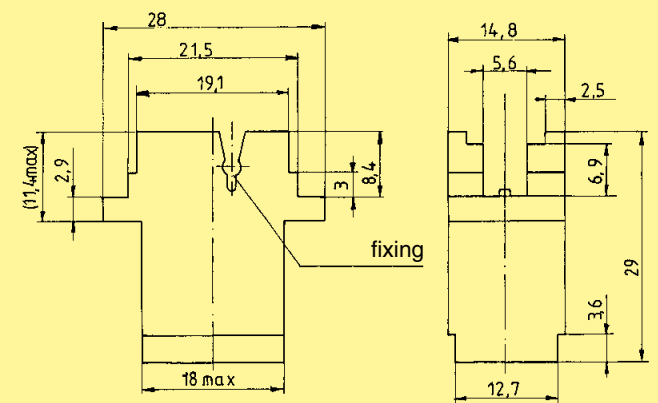
see page 03.31



Male connector for crimp contacts
Order contacts separately

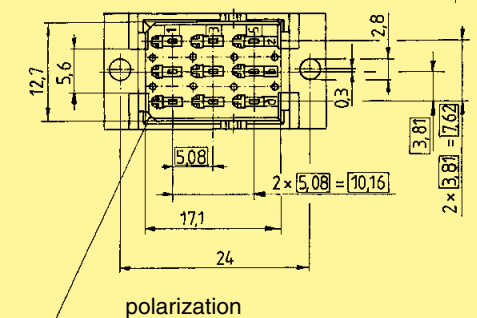
9

09 06 109 3401



Male crimp contacts

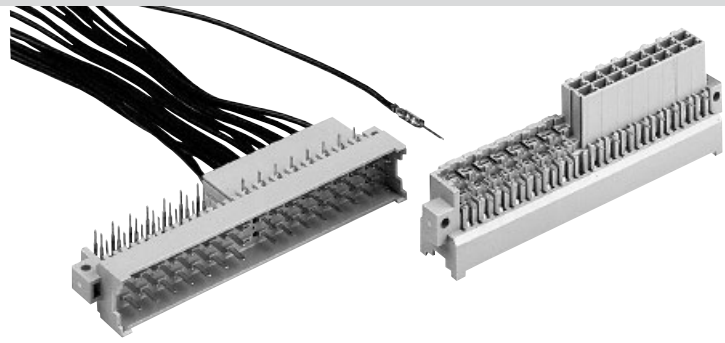
see page 03.44



DIN Power up to 6 A

Number of contacts

45



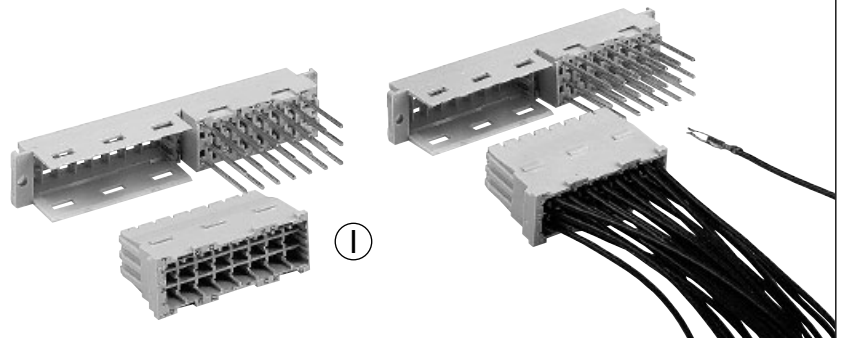
Male connectors

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|---|--------------------|---|---------|------------------|
| <p>Male connector</p> <p>29 angled solder pins</p> <p>16 cavities for male crimp contacts</p> <p>crimp contacts see page 03.44</p> | 45 | <p>Performance level 1 acc. to IEC 60 603-2</p> <p>09 06 145 2971</p> | | |
| <p>Board drillings</p> <p>Mounting side</p> | | | | |

1) A special 48 way version with 3 extra angled solder contacts at position 16 (rows d, b, z) can be supplied

Number of contacts

45



Female connectors

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|---|--------------------|---|---|---|
| <p>Female connector</p> <p>Female moulding with 21 wrap posts 22 mm</p> <p>with 21 solder pins 4.5 mm</p> | 45 | <p>Performance level 1 acc. to IEC 60 603-2</p> <p>09 06 045 2871¹⁾</p> <p>09 06 045 2875¹⁾</p> | <p>Latches</p> <p>Crimp moulding is supplied with the female moulding</p> <p>2.8^{+0.1}</p> <p>90^{±0.1}</p> <p>2d 2b 2z</p> <p>2x3.81=7.62</p> <p>5.08</p> <p>7x5.08=35.56</p> <p>10.16</p> <p>6x5.08=30.48</p> <p>8.17</p> <p>95 max.</p> <p>0.3</p> <p>14.8^{-0.2}</p> <p>32 30 28 26 24 22 20 18 14 12 10 8 6 4 2</p> <p>View from termination side</p> | <p>84.9</p> <p>10</p> <p>19.5</p> <p>13</p> <p>10</p> <p>22</p> <p>12.4</p> <p>2.9^{+0.3}</p> <p>5.08</p> <p>2 x 5.08 = 10.16</p> |
| <p>Crimp moulding for 24 female crimp contacts</p> <p>crimp contacts see page 03.31</p> | 45 | 09 06 024 3202 ¹⁾ | | |
| Panel cut out | | | <p>M2.5/φ2.8</p> <p>85</p> <p>90^{±0.1}</p> <p>95.5</p> <p>8.2</p> <p>17</p> <p>8.2</p> <p>20.32</p> | |
| Removal tool for the crimp moulding | | 09 99 000 0172 | <p>20</p> <p>125</p> | |

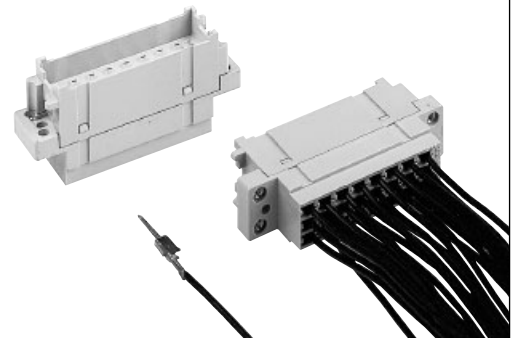
DIN Power up to 6 A

¹⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

The crimp moulding can be extracted with the help of the removal tool.

Number of contacts

max. 24



Interface connector I

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|---|--------------------|----------------|---------|------------------|
| <p>Interface connector I for male crimp contacts</p> <p>Order contacts separately</p> | 24 | 09 26 024 3411 | | |

| Identification | Identification Wire gauge | Part No. | Performance levels according to IEC 60603-2. Explanation chapter 00 |
|---|---|---|---|
| | | | 2 1 |
| <p>Male crimp FC contacts</p> <p>Bandoliered contacts (approx. 2,500 pieces)</p> <p>Bandoliered contacts (approx. 250 pieces)</p> <p>Individual contacts¹⁾</p> | <p>1</p> <p>2</p> <p>3</p> <p>2</p> <p>3</p> <p>1</p> <p>2</p> <p>3</p> | <p>09 06 000 9564</p> <p>09 06 000 9561</p> <p>09 06 000 9562</p> <p>09 06 000 5541</p> <p>09 06 000 5542</p> <p>09 06 000 9574</p> <p>09 06 000 9571</p> <p>09 06 000 9572</p> | <p>09 06 000 9544</p> <p>09 06 000 9541</p> <p>09 06 000 9542</p> <p>09 06 000 5541</p> <p>09 06 000 5542</p> <p>09 06 000 9554</p> <p>09 06 000 9551</p> <p>09 06 000 9552</p> |

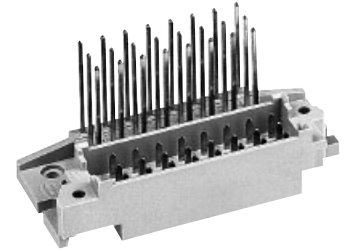
| FC 1 | FC 2 | FC 3 | Wire gauge mm ² | AWG | Insulation ø mm | Identification |
|--|------|------|----------------------------|---------|-----------------|----------------------|
| | | | 0.09 - 0.25 | 28 - 24 | 0.7 - 1.5 | Bandoliered contacts |
| | | | 0.14 - 0.56 | 26 - 20 | 0.8 - 2.0 | Individual contacts |
| | | | 0.5 - 1.5 | 20 - 16 | 1.6 - 2.8 | |
| <p>3.5 + 0.5 mm of insulation is stripped from the wires to be crimped</p> <p>For the fabrication in line with the specification please use exclusively crimp tools approved by HARTING (see DIN EN 60352-2)</p> <p>Insertion, removal and crimping tools see chapter 30</p> | | | | | | |

DIN Power up to 6 A

¹⁾ Packaging unit 1,000 pieces

Number of contacts

max. 24



Interface connector U

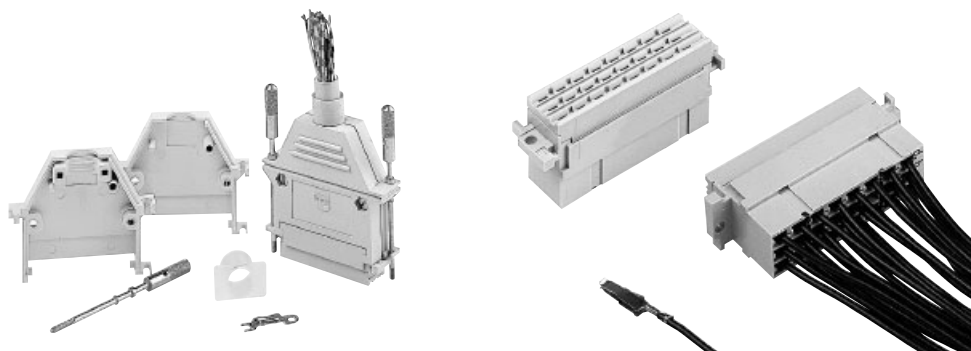
| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|--|--------------------|---|--|------------------|
| Interface connector U with wrap posts 1 x 1 mm | 24 | Performance level 1 acc. to IEC 60 603-2 09 26 024 2981 ¹⁾ | <p style="text-align: right;">Contact arrangement View from termination side</p> | |
| Mounting example | | | | |

DIN Power
up to 6 A

¹⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2

Number of contacts

max. 24



Female connectors

DIN Power
up to 6 A

| Identification | Number of contacts | Part No. | Drawing | Dimensions in mm |
|---|--------------------|------------------------------|---------|------------------|
| <p>Female connector for crimp contacts</p> <p>Order contacts separately see page 03.31</p> | 24 | 09 26 024 3201 ¹⁾ | | |
| <p>Shell housing A with integrated fixing screws</p> <p>Supplied with: Shell 2x Locking screw 2x Screw M3x10 2x Nut M3 2x Screw BZ 2.9x9.5 2x Cable clamp 1x Tension relief 1x</p> | | 09 26 024 0401 ¹⁾ | | |
| <p>Open hood</p> <p>Supplied with: Open hood 1x Locking screw 2x Screw BZ 2.2x9.5 2x Cable tie 1x</p> | | 09 26 000 9901 ¹⁾ | | |

¹⁾ Railway classification NFF 16-101, Smoke index: F1, Flammability class: I2