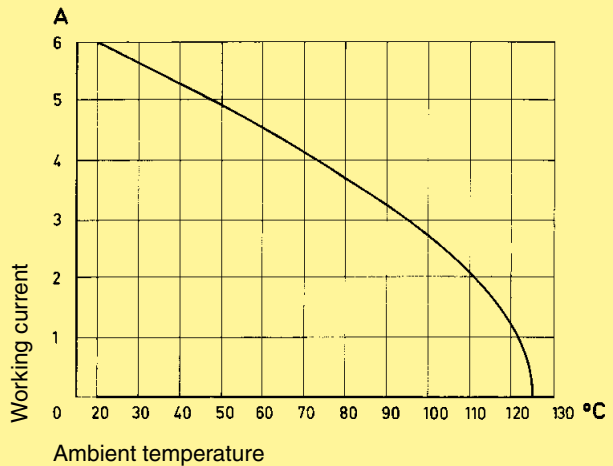


Number of contacts	
Type D	32
Type E	48
Contact spacing (mm)	
Type D	5,08
Type E	male connector 5.08 x 5.08 male connector 2.54 x 5.08 female connector 5.08 x 5.08
Working current see current carrying capacity chart	6 A max. 1 A max. for female connector type E angled
Clearance	
Types D and E	≥ 3.0 mm
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

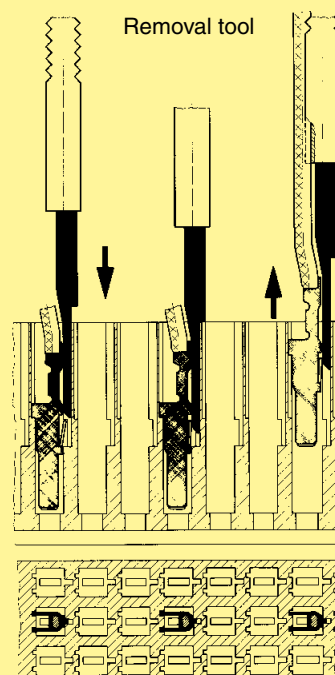


Fitting the crimp contacts

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

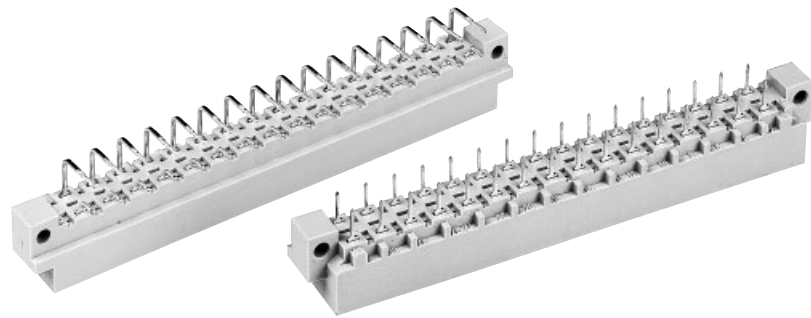
The removal tool is inserted into a slot on the termination side of the respective crimp cavity. This action compresses the contact retaining spring therefore the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damage to the contact/wire which can be repositioned/refitted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



DIN Power up to 6 A

Number of contacts

32

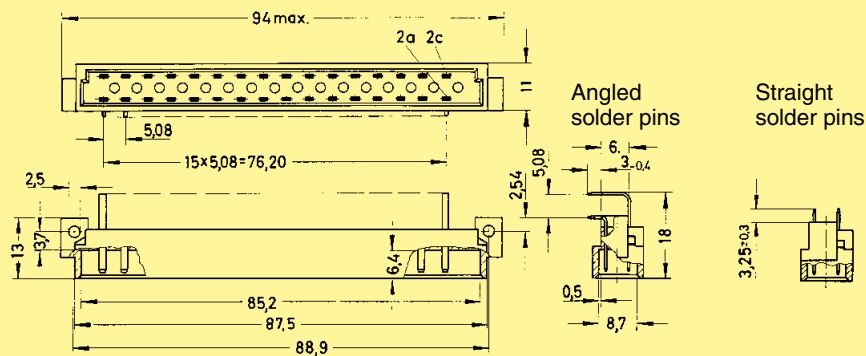


Male connectors

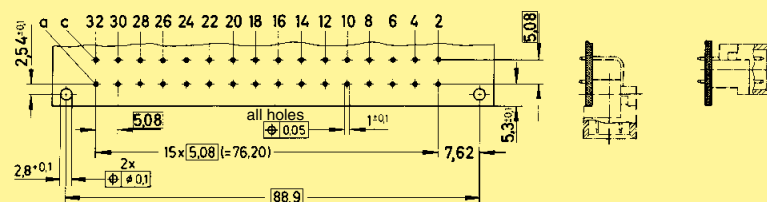
Identification	Number of contacts	Contact arrangement	Part No.	Performance levels according to IEC 60603-2. Explanation chapter 00		
				3	2	1
Male connector with angled solder pins SMC	32		09 04 132 7921	09 04 132 6921 09 04 132 6921 222 ^{f)} 09 04 332 6921 ^{b)} 09 04 632 6921 ^{c)}	09 04 132 2921 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



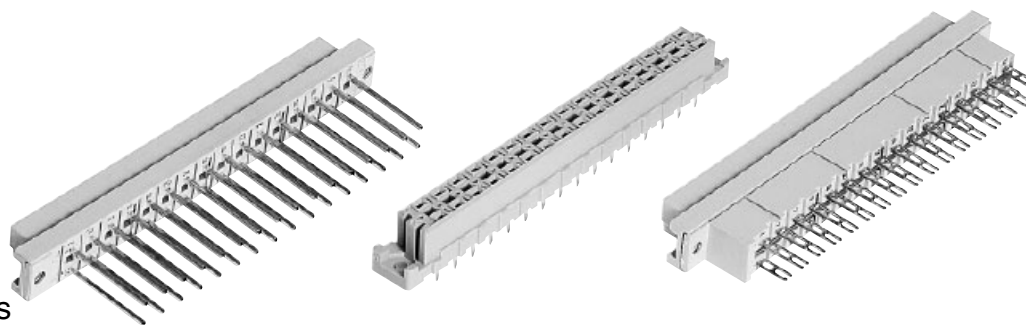
Dimensions in mm

▲ 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

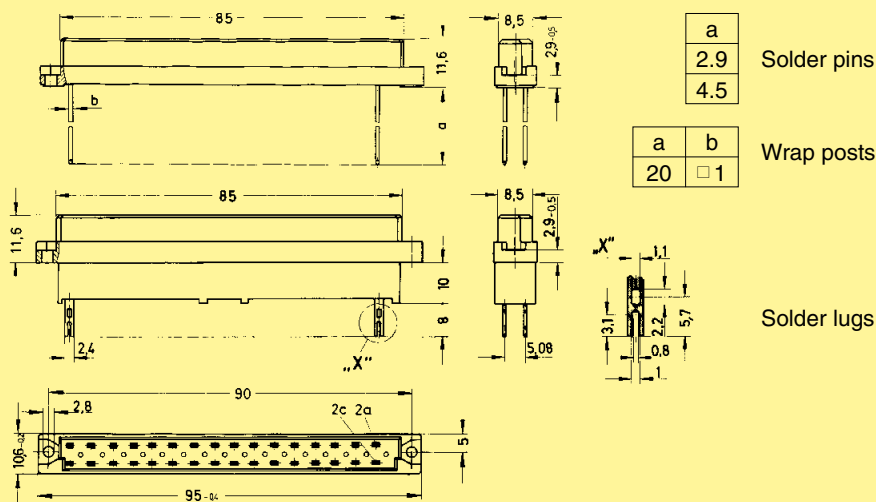


Female connectors

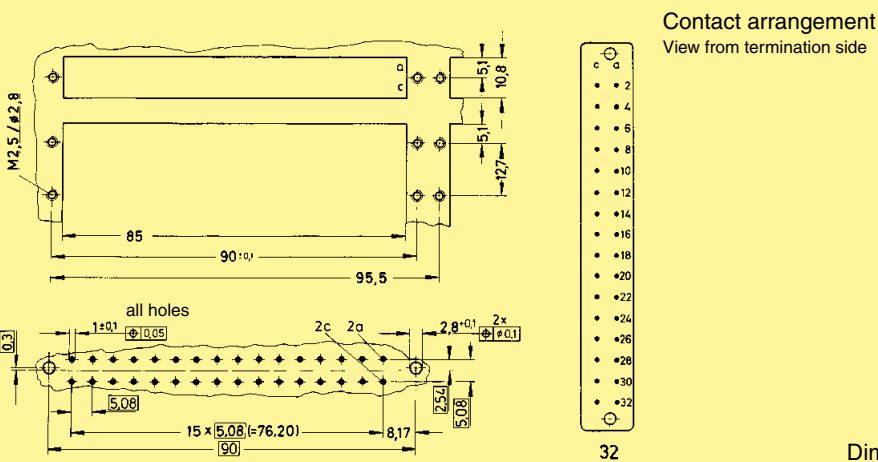
DIN Power
up to 6 A

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					

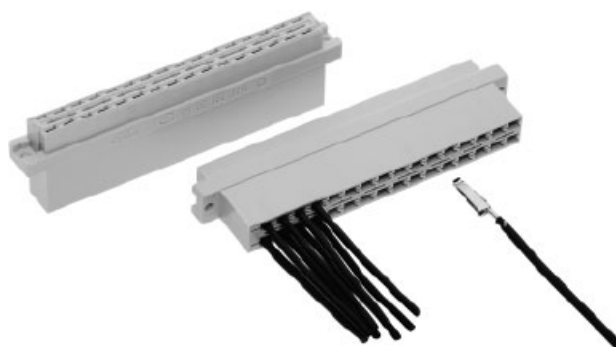
DIN Power up to 6 A

Dimensions in mm

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

Number of contacts

max. 32



Female connectors

DIN Power
up to 6 A

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	

	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			

¹⁾ Packaging unit 1,000 pieces

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

^{c)} Connectors with coding see chapter 00

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