

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	6 A max. see current carrying capacity chart
Clearance	
Types D und 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 for wire wrap and solder connections ≤ 20 mΩ including crimp connections
Insulation resistance	≥ 10 ¹² Ω
Temperature range	- 65 °C ... + 125 °C
The higher temperature limit includes the local ambient and heating effects of the contacts under load	
Degree of protection for crimp terminal	IP 20 according to DIN 40 050
Electrical termination	
Male connector	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
Female connector	Solder pins for pcb connections Ø 1.0 ± 0.1 mm according to IEC 60 326-3 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
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⁾ Termination zone: tinned

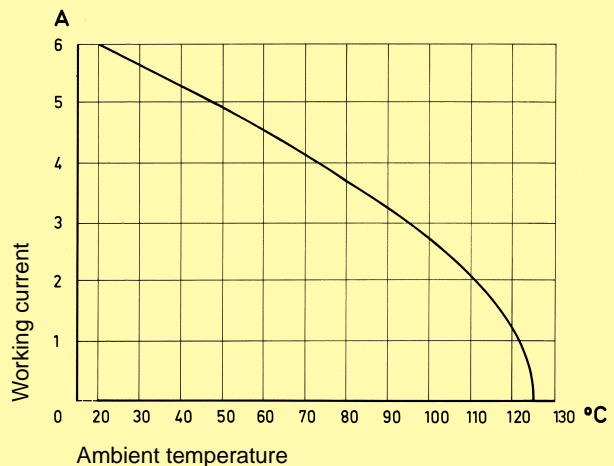
¹⁾ Explanation of performance levels see chapter 00

Mating conditions see chapter 00
Coding systems see page 02.34
Mounting clips 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

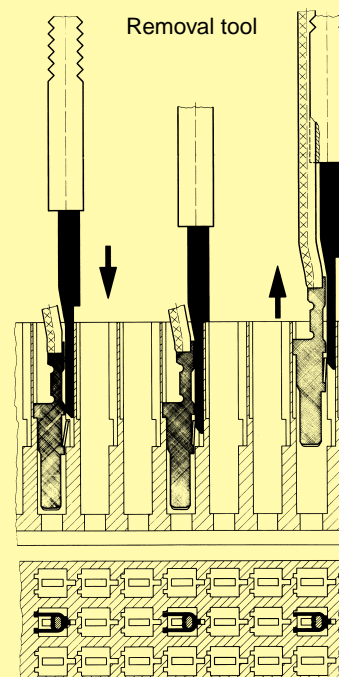


Fitting the crimp contacts

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.

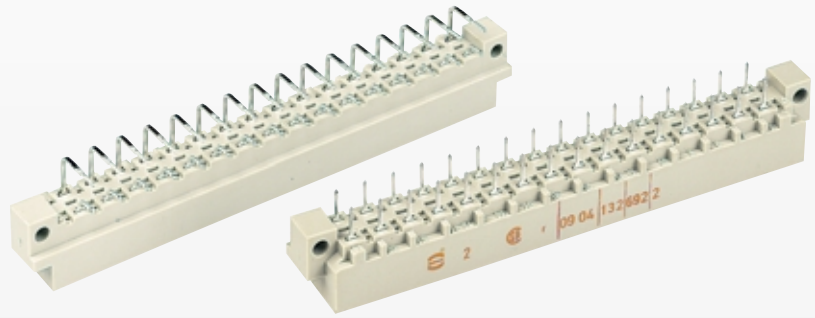
Removing the crimp contacts

The removal tool is inserted into a slot on the 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).



Number of contacts

32

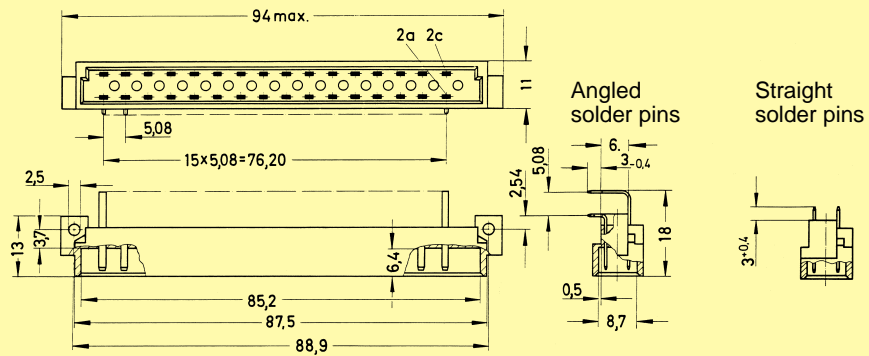


Male connectors

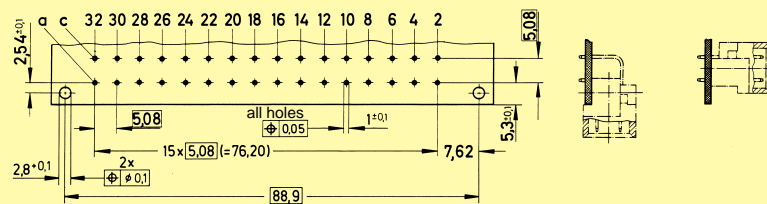
Identification	Number of contacts	Contact arrangement	Performance levels according to DIN 41 612. Explanation chapter 00		
			Part No. 3	2	1
Male connector with angled solder pins	32		09 04 132 7921	09 04 132 6921	09 04 132 2921
	30 + 2 [▲]		09 04 132 7951	09 04 132 6951	
Male connector with straight solder pins	32		09 04 132 7922	09 04 132 6922	
	30 + 2 [▲]		09 04 132 7952	09 04 132 6952	

Types signal to 6 A

Dimensions



Board drillings

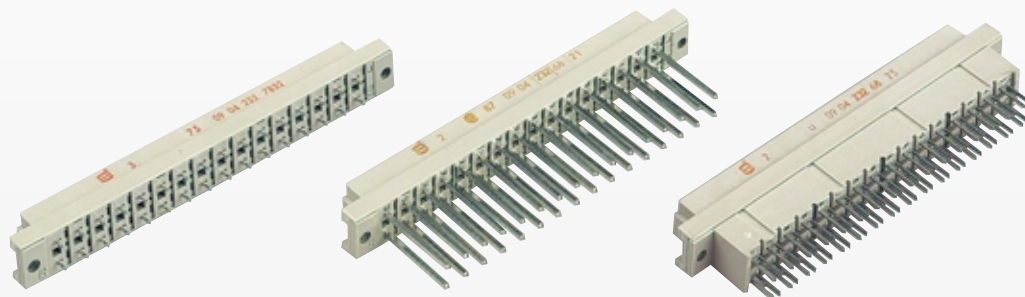


Dimensions in mm

▲ Male connectors with 2 leading contacts [(0.8 mm) pos. a2 and a32]
Other contact arrangements on request
VG versions on request

Number of contacts

32



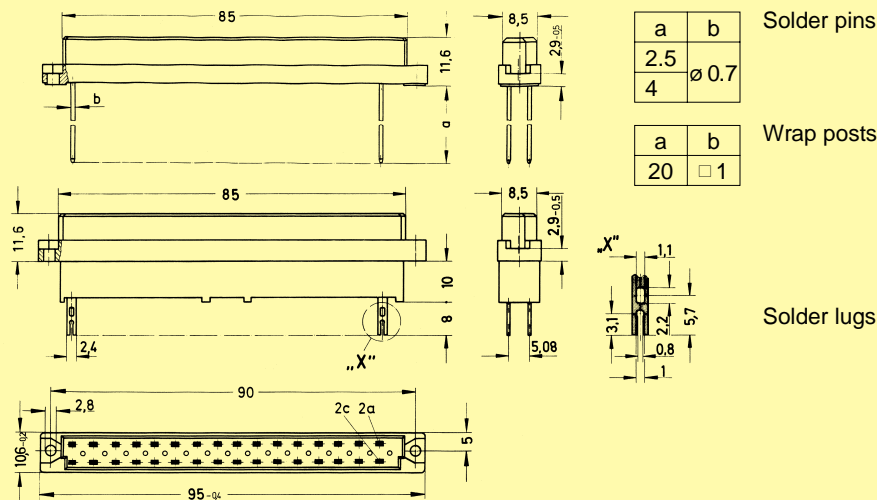
Female connectors

Types signal to 6 A

Identification Number of contacts Contact arrangement Part No. Performance levels according to DIN 41 612. Explanation chapter 00

Identification	Number of contacts	Contact arrangement	Part No.	3	2	1
Female connector with solder pins 2.5 mm	32		09 04 232 7832		09 04 232 6832	09 04 232 2832
Female connector with solder pins 4.0 mm	32		09 04 232 7831		09 04 232 6831	09 04 232 2831
Female connector with wrap posts 20 mm	32		09 04 232 7821		09 04 232 6821	09 04 232 2821
Female connector with solder lugs	32		09 04 232 7823		09 04 232 6823	09 04 232 2823

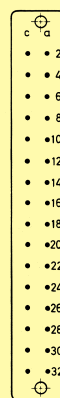
Dimensions



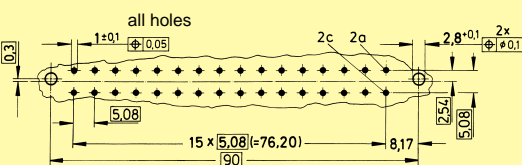
Panel cut out



Contact arrangement
View from termination side



Board drillings



32

Dimensions in mm