

Number of contacts

Gds A-D	32
Gds A-E	48

Contact spacing (mm)

Gds A-D	5.08
Gds A-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.

Clearance

Gds A-D, Gds A-E	≧ 3.0 mm
Gds A-E male connector	≧ 1.6 mm
row separation	2.54 mm

Creepage

≧ 3.0 mm

Working voltage

The working voltage also depends on the clearance and creepage dimensions of the P.C. Board itself, and the associated wiring

according to the safety regulations of the equipment.
Explanations page 6

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

1.55 kV

Contact resistance

≧ 15 mΩ
≧ 20 mΩ including crimp connection

Insulation resistance

≧ $10^{12} \Omega$

Temperature range

The higher temperature limit includes the local ambient and heating effect of the contacts under load

-65 °C + 125 °C

Degree of protection for crimp terminal

IP 20

Electrical termination

Male connector

Solder pins 0.6 x 0.6 mm for P.C.B. connections $\varnothing 0.8 + 0.3$ mm
Wrap posts 1 x 1 mm diagonal 1.34–1.45 mm

Female connector

Solder pins $\varnothing 0.7$ mm for P.C.B. connections
 $\varnothing 1.0 \pm 0.1$ mm according to IEC 326
Angled solder pins 1 x 1 mm for P.C.B. connections $\varnothing 1.6 \pm 0.1$ mm
Solder lugs
Crimp terminal 0.09–1.5 mm²

Insertion and withdrawal force

32 way ≧ 40 N
48 way ≧ 75 N

Materials

Mouldings

Thermoplastic resin, glass-fibre filled

Contacts

Copper alloy

Contact surface

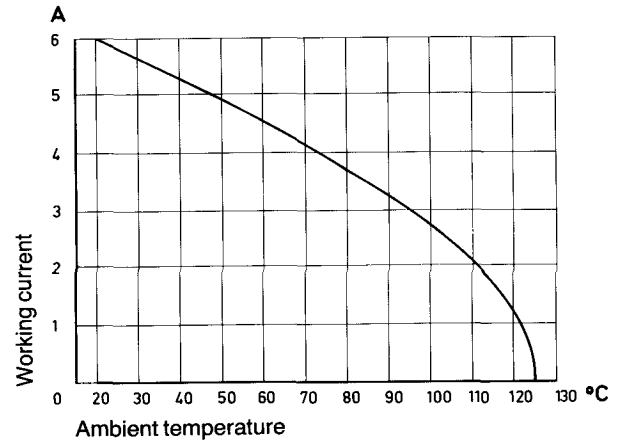
Contact zone: selectively gold plated according to performance level¹⁾
Termination zone: tinned

¹⁾ Explanations of performance levels page 10

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, not 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 41 640, part 3.

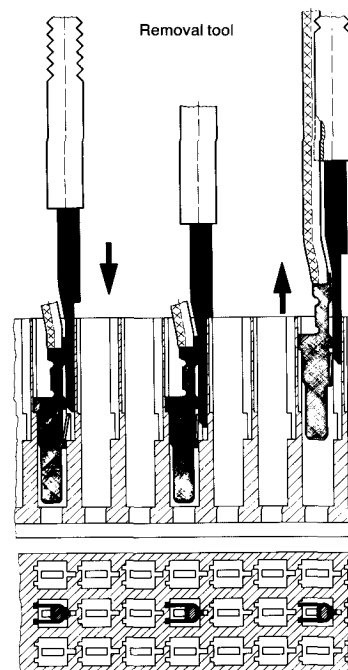


Fitting the crimp contacts

After crimping the wires onto the contacts the crimp contacts are correctly orientated and inserted into cavities in the connector body in the required configuration. They snap into position and are firmly held in place. A light pull on the wire will check that they are correctly located. When using stranded wire having a gauge below 0.37 mm², an insertion tool is required.

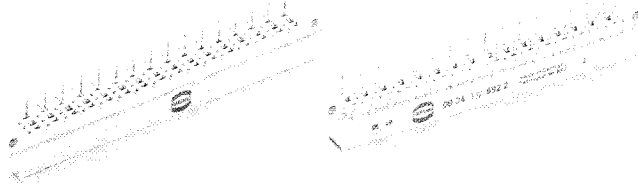
Removing the crimp contacts

The removal tool is inserted into a slot on the side of the respective crimp cavity. This action compresses the contact retaining spring and 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 diagram demonstrates the crimp removal procedure (max. 5x).



Number of contacts

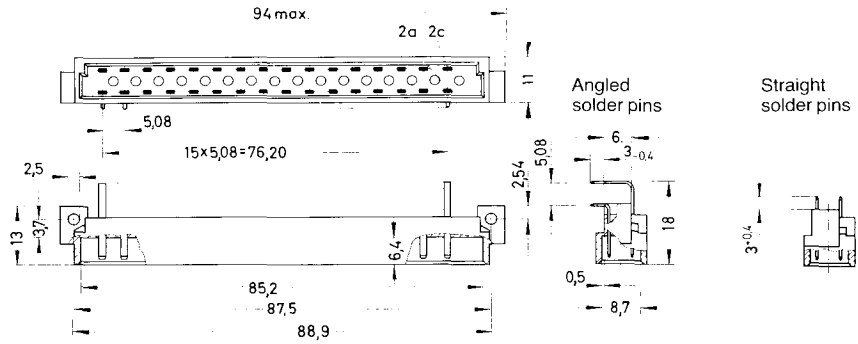
32



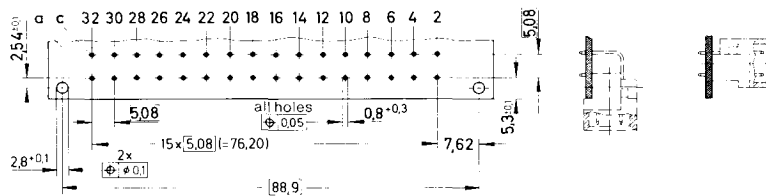
Male connectors

Identification	Number of contacts	Contact arrangement	Part No. Performance levels according to DIN 41 612, explanations page 10		
			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	

Dimensions



Board drillings



Mating conditions page 10

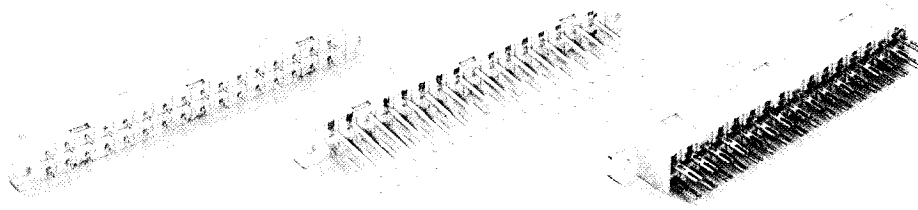
Dimensions in mm

▲ Male connectors with 2 first mating contacts [(0.8 mm) pos. a2 and a32]*
 Male connectors with contacts in other positions/other rows on request
 VG-versions on request

* Not normally kept in stock

Number of contacts

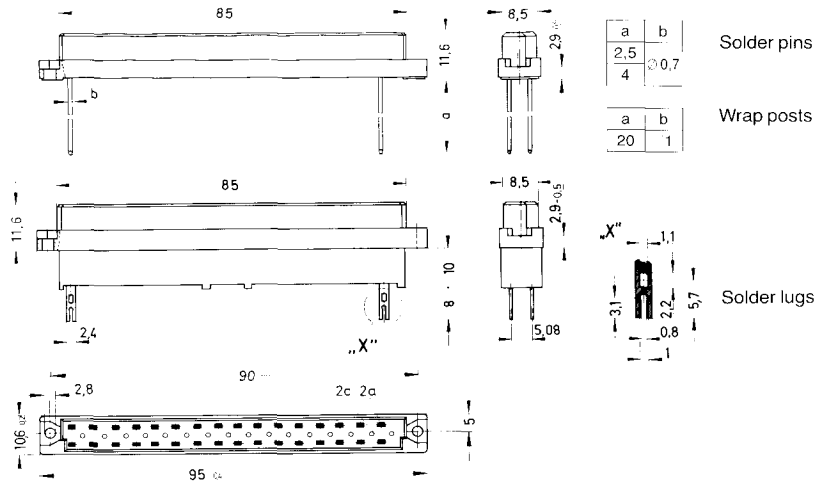
32



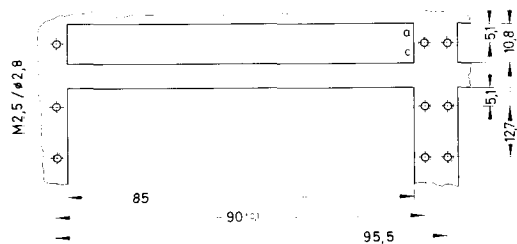
Female connectors

Identification	Number of contacts	Contact arrangement	Part No. Performance levels according to DIN 41 612, explanations page 10		
			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



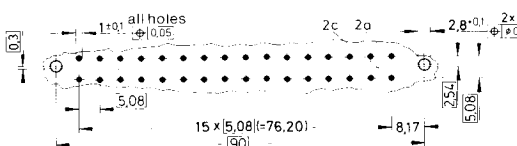
Panel cut out



Contact arrangement
View from termination side



Board drillings



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Marking strips page 92
Coding information page 88

Dimensions in mm