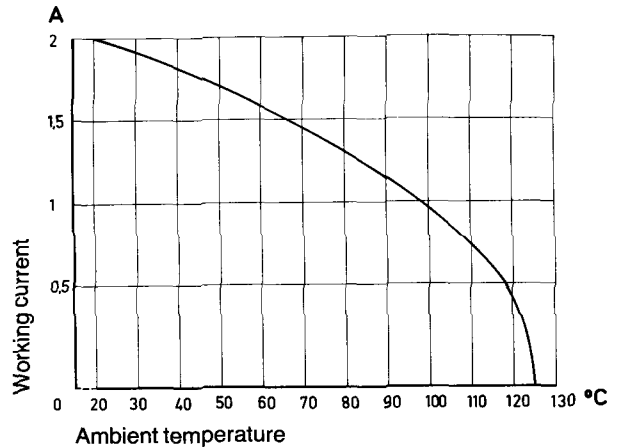


Number of contacts	16–96
Contact spacing (mm)	2.54
Working current <i>see current carrying capacity chart</i>	2 A max. 1 A with insulation displacement 15 A type CH 40 A max. type M
Clearance	≅ 1.2 mm
Creepage	≅ 1.2 mm
High current contacts	
Type CH	
Clearance	≅ 3.0 mm
Creepage	≅ 4.0 mm
Working voltage 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 kV
Contact resistance	≅ 15 mΩ ≅ 20 mΩ including crimp connection
Insulation resistance	≅ 10 <sup>12</sup> Ω
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 according to DIN 40050	IP 20
Electrical termination Male connector	Solder pins 0.6 x 0.6 mm for P.C.B. connections Ø 0.8 + 0.3 mm Wrap posts 0.6 x 0.6 mm diagonal 0.79–0.86 mm
Female connector	Wrap posts 0.6 x 0.6 mm diagonal 0.79–0.86 mm Solder pins 0.6 x 0.6 mm for P.C.B. connections Ø 1 ± 0.1 mm according to IEC 326 for P.C.B. connections Ø 0.8 + 0.3 mm on request Solder lugs Crimp terminal 0.14–0.5 mm <sup>2</sup> Insulation displacement connection AWG 28/7 Connector for faston 6.3 x 2.5
Insertion and withdrawal force	16 way ≅ 15 N 32 way ≅ 30 N 48 way ≅ 45 N 64 way ≅ 60 N 96 way ≅ 90 N
Materials Mouldings	Thermoplastic resin, glass-fibre filled
Contacts	Copper alloy
Contact surface	Contact zone: selectively gold-plated according to performance level <sup>1)</sup> Termination zone: tinned Heavy current contacts type CH silver plated Wrap posts selectively gold plated on request

## 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.

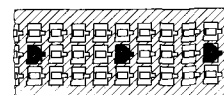
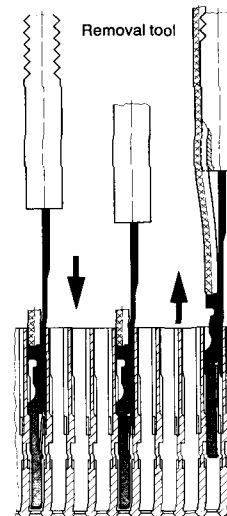


## Fitting the crimp contacts

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 mm<sup>2</sup>, 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.



<sup>1)</sup> Explanations of performance levels page 10

You will find angled female connectors for

Series Gds A-B	on page 80	type Q
Series Gds A-2B	on page 82	type 2Q
Series Gds A-C	on page 84	type R
Series Gds A-2C	on page 86	type 2R
Mating conditions	page 10	Coding systems
		page 88

Number of contacts

# 32, 16



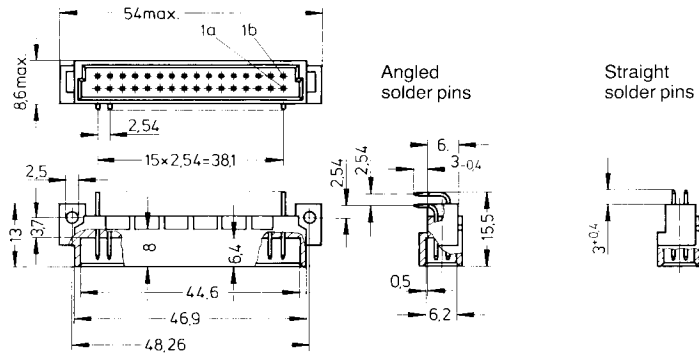
## Male connectors

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 22 132 7921	09 22 132 6921	09 22 132 2921*
	16		09 22 116 7931	09 22 116 6931	09 22 116 2931*
	30 + 2 <sup>▲</sup>		09 22 132 7951	09 22 132 6951	09 22 132 2951*
Male connector with straight solder pins	32		09 22 132 7922	09 22 132 6922	09 22 132 2922*
	16		09 22 116 7932	09 22 116 6932	09 22 116 2932*
	30 + 2 <sup>▲</sup>		09 22 132 7952	09 22 132 6952	09 22 132 2952*

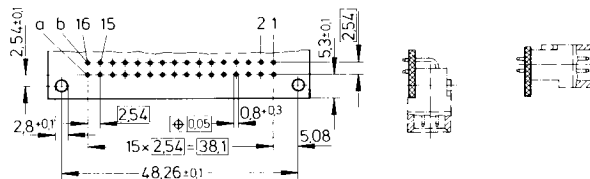
Male connector with angled press-in terminations

Part Nos. and versions see "har · press" catalogue

## Dimensions



## Board drillings



▲ Male connectors with 2 first mating contacts [(0.8 mm) pos. a1 and a16]  
Male connectors with contacts in other positions/other rows on request

\* Not normally kept in stock

Number of contacts

# 32, 16

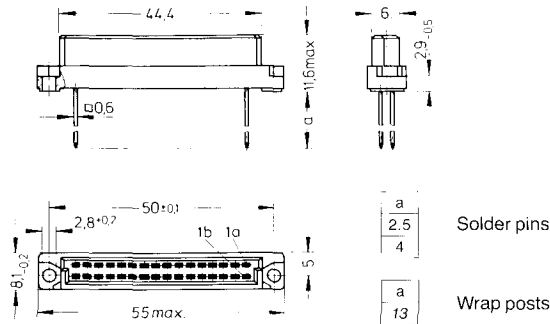


## Female connectors

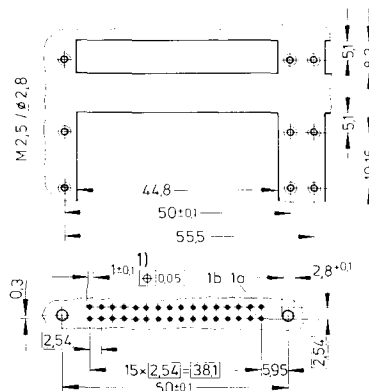
Identification	Number of contacts	Contact arrangement	Part No. Performance levels according to DIN 41 612, explanations page 10		
			3	2	1
Female connector with solder pins 2.5 mm	32		09 22 132 7824	09 22 132 6824	09 22 132 2824*
	16		09 22 116 7834	09 22 116 6834	09 22 116 2834*
Female connector with solder pins 4.0 mm	32		09 22 132 7825	09 22 132 6825	09 22 132 2825*
	16		09 22 116 7835	09 22 116 6835	09 22 116 2835*
Female connector with wrap posts 13 mm	32		09 22 132 7821	09 22 132 6821	09 22 132 2821*
	16		09 22 116 7831	09 22 116 6831	09 22 116 2831*

2 B

## Dimensions

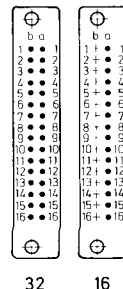


## Panel cut out



## Contact arrangement

View from termination side



## Board drillings

1) Solder pins for holes  $\varnothing 0.8 + 0.3$  mm on request

Mating conditions page 10  
Coding information page 88

Dimensions in mm

\* Not normally kept in stock