

Number of contacts	16-96
Contact spacing (mm)	2.54
Working current see current carrying capacity chart	2 A max. 1 A with insulation displacement 40 A max. type M
Clearance	≥ 1.2 mm
Creepage	≥ 1.2 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 kV
Contact resistance	≤ 15 mΩ for wire wrap connection ≤ 20 mΩ including crimp connection
Insulation resistance	≥ 10 <sup>12</sup> Ω
Temperature range The higher temperature limit includes the local ambient and heating effects of the contacts under load	- 55 °C ... + 125 °C
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 For pcb connection Ø 0.8 + 0.3 mm on request 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 for pcb connections Ø 1.0 ± 0.1 mm according to IEC 60 326-3 For pcb connection Ø 0.8 + 0.3 mm on request Crimp terminal 0.09-0.5 mm <sup>2</sup> Insulation displacement connection AWG 28/7

Insertion and withdrawal force	16way ≤ 15 N 32way ≤ 30 N 48way ≤ 45 N 64way ≤ 60 N 96way ≤ 90 N
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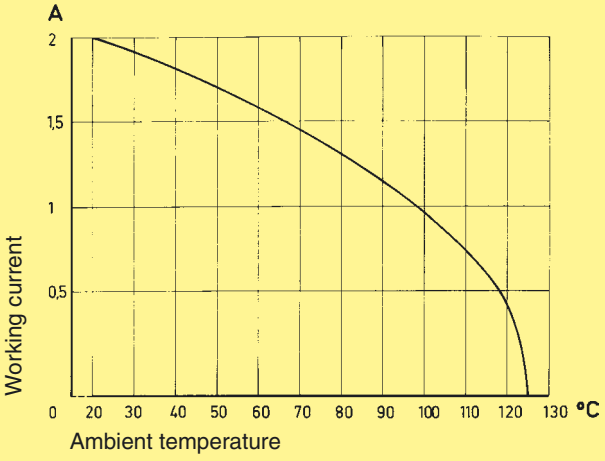
Materials	
Mouldings	Thermoplastic resin, glass-fibre filled, UL 94-V0
Contacts	Copper alloy
Contact surface	Contact zone: selectively plated according to performance level <sup>1)</sup> Termination zone: tinned Wrap posts: selectively gold-plated on request

<sup>1)</sup> Explanation performance levels see chapter 00  
Mating conditions 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



## Pin shroud for female connectors with 0.6 x 0.6 mm pins according to DIN 41 612

A secure interfacing system for signals from the rear of 19" racks to connectors with wrap posts 0.6 x 0.6 mm is possible with the use of a pin shroud.

The pin shroud protects the wrap posts on the rear side of the rack and can be screwed to the printed circuit board.

After assembly the rear ends of the wire wrap posts become the mating areas of the type C male connector according to DIN 41 612.

This system can now accept:

- female connectors type C
- female connectors type R

The locking levers provide security for the mated connectors. Fast and simple disconnection is possible.

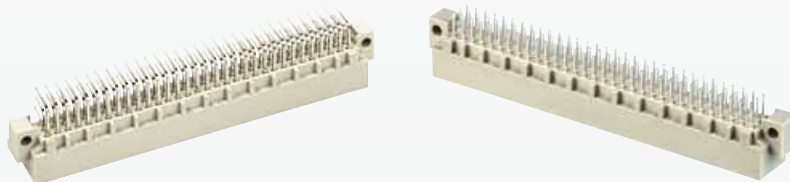
## Fitting and removing crimp contacts

see technical characteristics chapter 02

Types signal to 2 A

Number of contacts

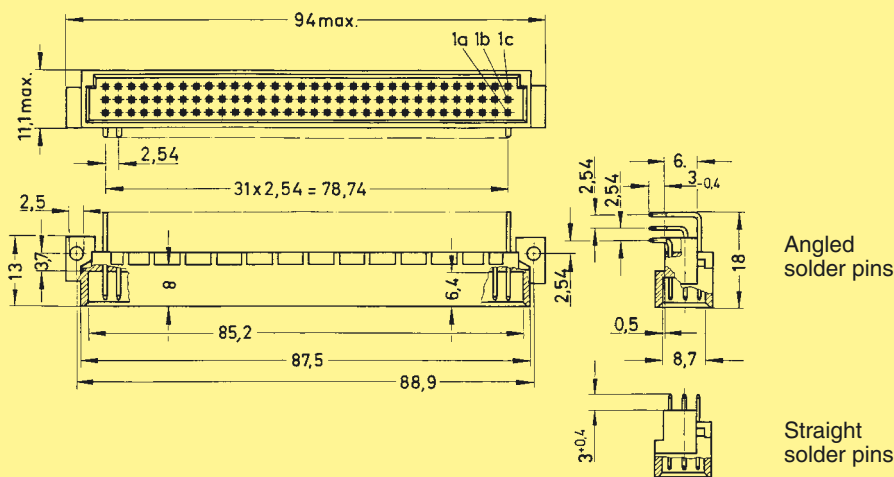
# 96, 64, 32



## Male connectors

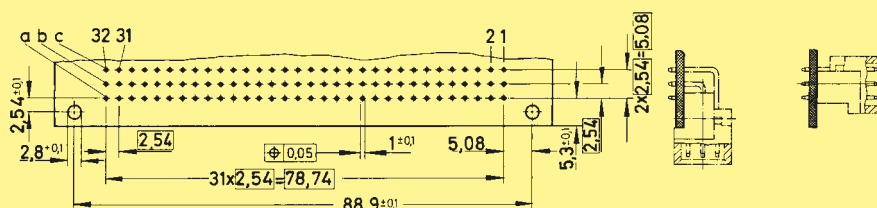
Identification	Number of contacts	Contact arrangement	Part No.	Performance levels according to DIN 41 612. Explanation chapter 00		
				3	2	1
Male connector with angled solder pins	96		09 03 196 7921	09 03 196 6921	09 03 196 2921	
	64		09 03 164 7921	09 03 164 6921	09 03 164 2921	
	32		09 03 132 7921	09 03 132 6921	09 03 132 2921	
	94 + 2 <sup>▲</sup>		09 03 196 7951	09 03 196 6951	09 03 196 2951	
	62 + 2 <sup>▲</sup>		09 03 164 7951	09 03 164 6951	09 03 164 2951	
Male connector with straight solder pins	96		09 03 196 7922	09 03 196 6922	09 03 196 2922	
	64		09 03 164 7922	09 03 164 6922	09 03 164 2922	

## Dimensions



## Board drillings

Mounting side



Dimensions in mm

<sup>▲</sup> Male connectors with 2 leading contacts [(0.8 mm) pos. a1 and a32]  
 Other contact arrangements on request  
 High temperature connectors see chapter 05

Number of contacts

96, 64, 32



Female connectors

Types  
signal to 2 A

Identification	Number of contacts	Contact arrangement	Performance levels according to DIN 41 612. Explanation chapter 00		
			Part No. 3	2	1
Female connector with solder pins 2.9 mm	96		09 03 296 7824	09 03 296 6824	09 03 296 2824
	64		09 03 264 7824	09 03 264 6824	09 03 264 2824
	32		09 03 232 7824	09 03 232 6824	09 03 232 2824
	32		09 03 232 7834	09 03 232 6834	09 03 232 2834
Female connector with kinked solder pins <sup>1)</sup> 2.9 mm	96		<b>09 03 296 7855</b>	<b>09 03 296 6855</b>	<b>09 03 296 2855</b>
	64		<b>09 03 264 7855</b>	<b>09 03 264 6855</b>	<b>09 03 264 2855</b>
	32		<b>09 03 232 7855</b>	<b>09 03 232 6855</b>	<b>09 03 232 2855</b>
Female connector with solder pins 4.5 mm	96		09 03 296 7825	09 03 296 6825	09 03 296 2825
	64		09 03 264 7825	09 03 264 6825	09 03 264 2825
	32		09 03 232 7825	09 03 232 6825	09 03 232 2825
	32		09 03 232 7835	09 03 232 6835	09 03 232 2835
Female connector with kinked solder pins <sup>1)</sup> 4.5 mm	96		<b>09 03 296 7845</b>	<b>09 03 296 6845</b>	<b>09 03 296 2845</b>
	64		<b>09 03 264 7845</b>	<b>09 03 264 6845</b>	<b>09 03 264 2845</b>
	32		<b>09 03 232 7845</b>	<b>09 03 232 6845</b>	<b>09 03 232 2845</b>
Female connector with wrap posts 13 mm	96			09 03 296 6821	
	96			09 03 296 6878 <sup>2)</sup>	
	64			09 03 264 6821	
	64			09 03 264 6878 <sup>2)</sup>	
Female connector with solder lugs a + c 5.2 mm b 7.7 mm	96			09 03 296 6823	
	64			09 03 264 6823	
Female connector with press-in pins			Part Nos. and variants see chapter 04		

<sup>1)</sup> Kinked pins for fixing the connector onto the pcb see chapter 00  
<sup>2)</sup> Wrap posts for interfacing, selectively gold-plated (performance level 3)  
 Other contact arrangements on request

