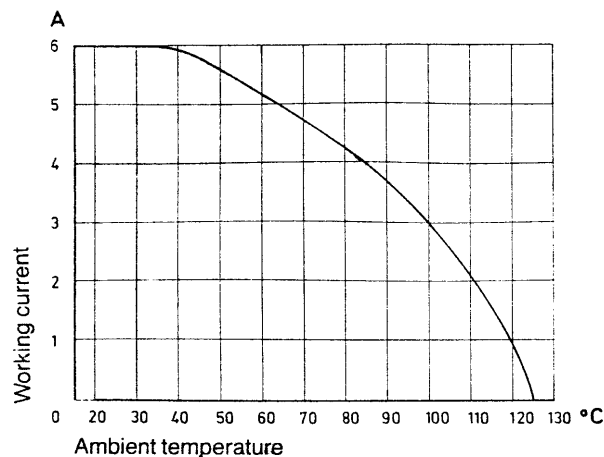


Number of contacts	13, 21, 31
Contact spacing (mm)	
Male connector	2.5 and 2.54 with angled solder pins 2.5 x 5 with straight solder pins 2.5 x 5
Female connector	2.5 x 5
Working current	6 A max.
see current carrying capacity chart	
Clearance	≥ 1.2 mm
Creepage	≥ 1.2 mm
Working voltage	according to the safety regulations of the equipment.
The working voltage also depends on the clearance and creepage dimensions of the P.C. Board itself, and the associated wiring	Explanations page 6
Test voltage $U_{r.m.s.}$	1 kV
Contact resistance	≤ 12 m Ω
Insulation resistance	$\geq 10^{11}$ Ω
Capacity	≤ 1 pF
Temperature range	-65 °C + 125 °C
The higher temperature limit includes the local ambient and heating effect of the contacts under load	
Electrical termination	
Male connector	Solder pins 0.8 mm for P.C. Board $\varnothing 1.3 + 0.1$ mm according to DIN 40 801, P. 2
Female connector	Solder lugs 0.5 mm ² Solder pins for P.C. Board $\varnothing 1 + 0.1$ mm according DIN 40 801, P. 2
Insertion and withdrawal force	13 way ≤ 35 N 21 way ≤ 55 N 31 way ≤ 80 N
Materials	
Mouldings	Thermoplastic resin, glass-fibre filled
Contacts	Copper alloy
Contact surface	Contact zone: selectively gold plated according to performance level Termination zone: tinned
Performance level 3 as per DIN 41 617, part 2	
50 mating cycles	
No gas test, then visual inspection.	
No functional impairment.	
Performance level 2 as per DIN 41 617, part 2	
400 mating cycles	
200 mating cycles	4 days gas test using 10 ppm SO ₂ . Measurement of contact resistance.
200 mating cycles	then visual inspection. No abrasion of the contact finish through to the base material. No functional impairment.
Performance level 1 as per DIN 41 617, part 2	
500 mating cycles	
250 mating cycles	10 days gas test using 10 ppm SO ₂ . Measurement of contact resistance.
250 mating cycles	then visual inspection. No abrasion of the contact finish through to the base material. No functional impairment.

Current carrying capacity

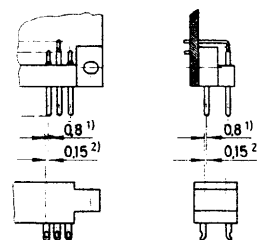
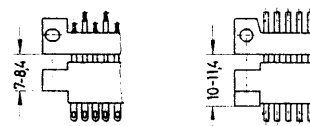
The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals. The current capacity-curve is valid for continuous, not interrupted current-loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN 41 640, part 3.



Mating conditions

These recommendations are set out in DIN 41 617, P. 1.



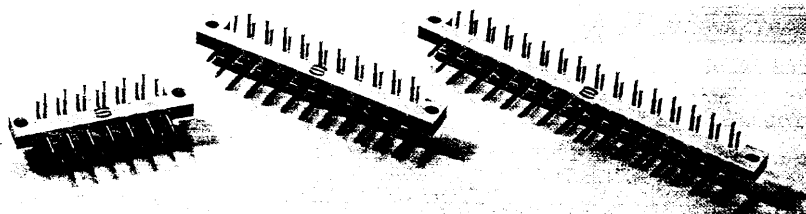
¹⁾ permissible tolerances-floating

²⁾ permissible tolerances-fixed

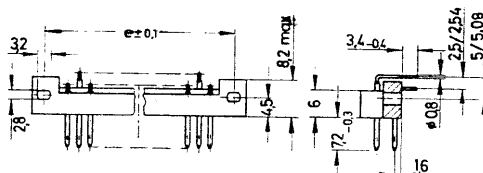
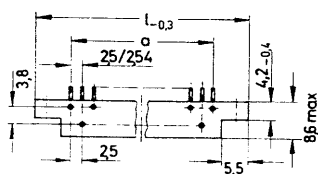
Coding system

To prevent incorrect/inadvertent mating of connectors, especially when many are used adjacent to one another, connectors can be polarised. For Gds W a code rivet 1.4 x 6 (DIN 1477) is fitted into one of the cavities of the female connector. The corresponding pin must be cropped on the male connector.

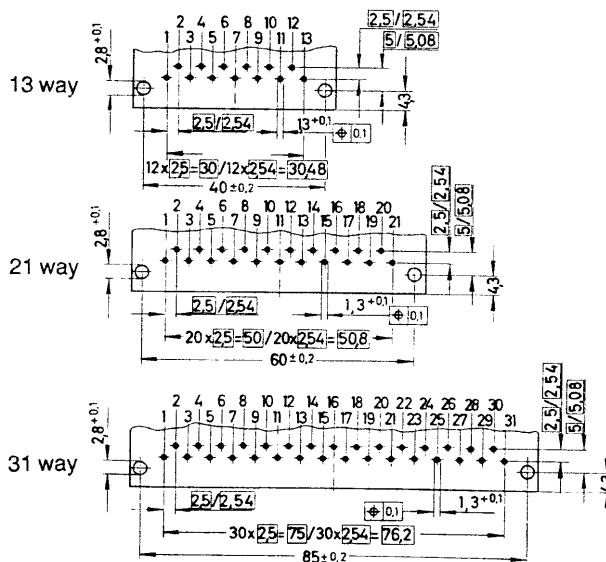
Number of contacts

13, 21, 31**Male connectors**

Identification	Number of contacts	Part No.	Performance levels according to DIN 41 617, explanations page 119		
		3	2	1	
Male connector with angled solder pins	13	09 01 013 7661	09 01 013 2662	09 01 013 2663	
	21	09 01 021 7661	09 01 021 2662	09 01 021 2663	
	31	09 01 031 7661	09 01 031 2662	09 01 031 2663	
Contact spacing 2.5 x 2.5 mm					
Contact spacing 2.54 x 2.54 mm	13	09 01 013 7661	09 01 013 2662	09 01 013 2663	
	21	09 01 021 7667	09 01 021 2668	09 01 021 2669*	
	31	09 01 031 7667	09 01 031 2668	09 01 031 2669*	

Dimensions

way	l	e	a	
13	44.8	40	12 x 2.5 = 30	
21	64.8	60	20 x 2.5 = 50	20 x 2.54 = 50.80
31	89.8	85	30 x 2.5 = 75	30 x 2.54 = 76.20

Board drillings

Dimensions in mm

*Not normally kept in stock

Number of contacts

13, 21, 31



Male connectors

Identification

Male connector
with straight
solder pinsNumber
of contacts

Part No. Performance levels according to DIN 41 617, explanations page 119

3

2

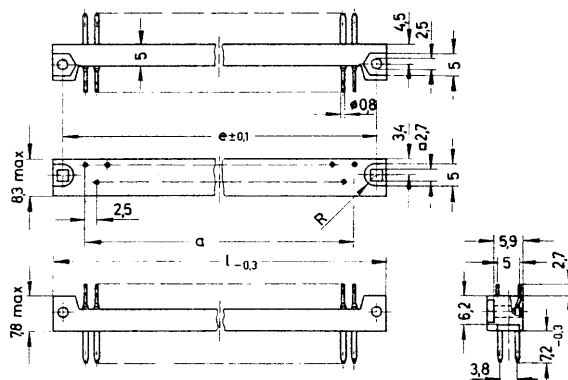
1

09 01 013 7676
09 01 021 7676
09 01 031 7676

09 01 013 2677
09 01 021 2677
09 01 031 2677

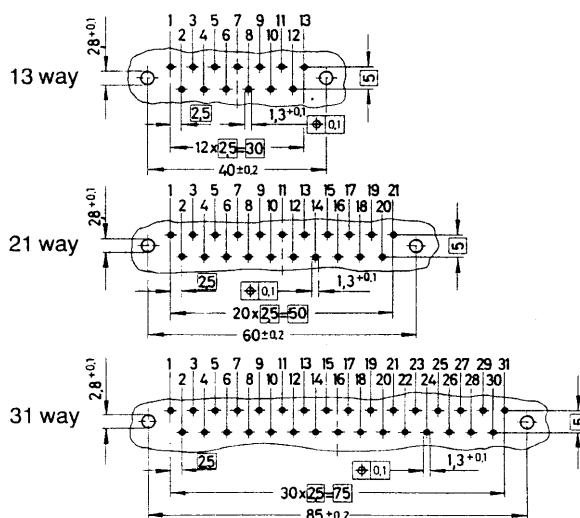
09 01 013 2678*
09 01 021 2678*
09 01 031 2678*

Dimensions



way	l	e	a
13	44.6	40	12 x 2.5 = 30
21	64.6	60	20 x 2.5 = 50
31	89.6	85	30 x 2.5 = 75

Board drillings



Mating conditions page 119
Coding information page 119

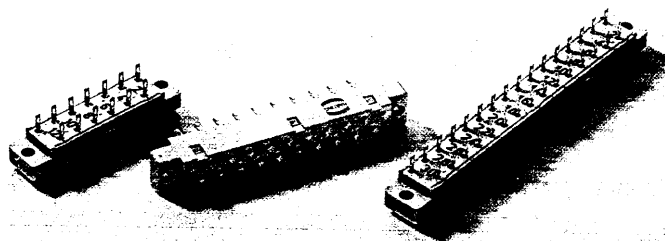
Dimensions in mm

W

121

* Not normally kept in stock

Number of contacts

13, 21, 31**Female connectors**

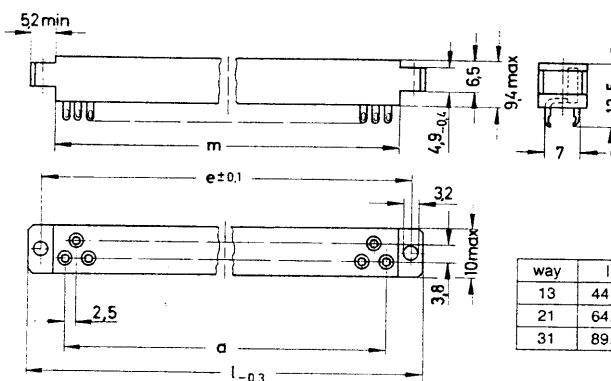
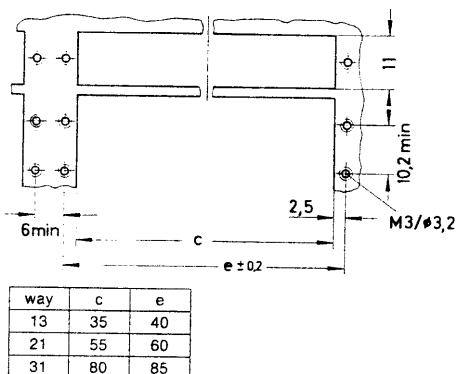
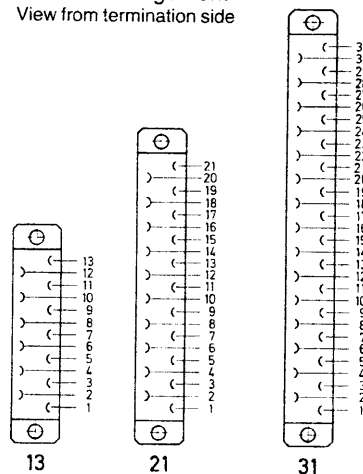
Identification

Number
of contactsPart No.
3Performance levels according to DIN 41 617, explanations page 119
2Female connector
with solder lugs

09 01 013 7861
09 01 021 7861
09 01 031 7861

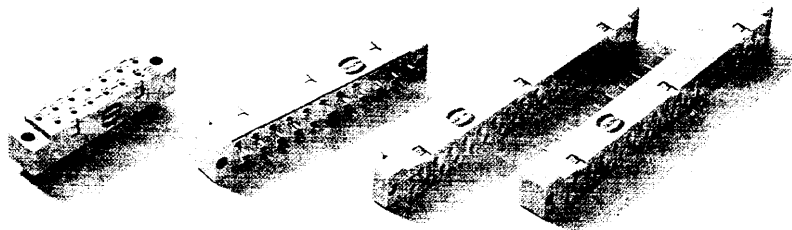
09 01 013 2862
09 01 021 2862
09 01 031 2862

09 01 013 2863
09 01 021 2863
09 01 031 2863

Dimensions**Panel cut out**Contact arrangement
View from termination side

Number of contacts

13, 21, 31



Female connectors

Identification

Female connector
with solder pinsNumber
of contacts

Part No. Performance levels according to DIN 41 617, explanations page 119

3

2

1



09 01 013 7867
09 01 021 7867
09 01 031 7867

09 01 013 2868
09 01 021 2868
09 01 031 2868

09 01 013 2869*
09 01 021 2869*
09 01 031 2869*

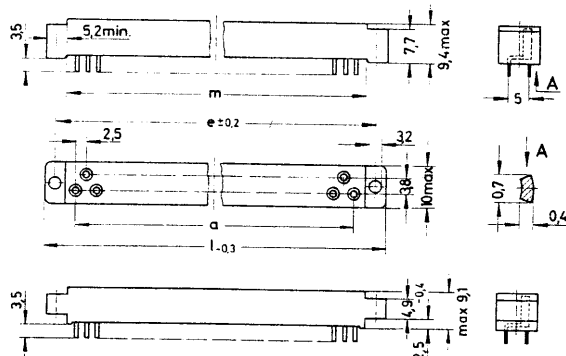


09 01 031 7854

09 01 031 2855

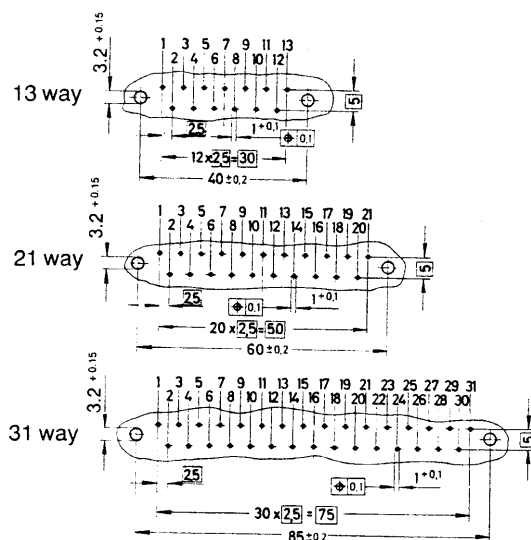
09 01 031 2856*

Dimensions



way	l	m	e	a
13	44.8	34	40	12 x 2.5 = 30
21	64.8	54	60	20 x 2.5 = 50
31	89.8	79	85	30 x 2.5 = 75

Board drillings



Mating conditions page 119
Coding information page 119

Dimensions in mm

W