

104-993 +
104-994

Performance level 3 as per DIN 41 612, part 5

50 mating cycles.
Then visual inspection no gas test.
No functional impairment.

Part-number-explanation 09 7 . . .

Performance level 2 as per DIN 41 612, part 5

400 mating cycles.
200 mating cycles 4 days gas test using 10 ppm SO₂.
Measurement of contact resistance.
200 mating cycles then visual inspection. No abrasion of the
contact finish through to the base material.
No functional impairment.

Part-number-explanation 09 6 . . .

Performance level 1 as per DIN 41 612, part 5

500 mating cycles.
250 mating cycles 21 days gas test using 10 ppm SO₂.
Measurement of contact resistance.
250 mating cycles then visual inspection. No abrasion of the
contact finish through to the base material.
No functional impairment.

Part-number-explanation 09 2 . . .

VG Version as per VG 95 324, part 1

500 mating cycles – then 1 day gas test using 10.000 ppm
SO₂ and 1 day gas test using 10.000 ppm H₂S.
Then visual inspection. No abrasion of the contact finish through to the
base material. No functional impairment.

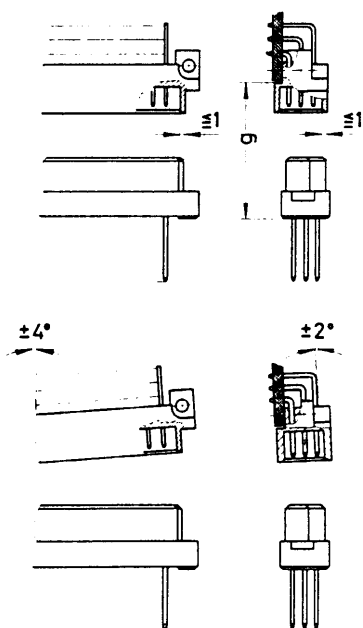
Part-number-explanation 09 4 . . .

Other plating finishes available on request.

Mating conditions

To ensure reliable connections and prevent unnecessary damage,
please refer to the application data diagrams.

These recommendations are set out in DIN 41 612 P. 1.
The connectors shall not be coupled and decoupled under electrical
load.



g = 12,4 - 14,2

Soldering the male connectors into P.C. Boards

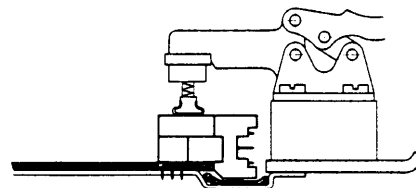
The male connectors of the Gds A series should be protected when
soldering using dip, flow or film soldering baths, against contamination
as a result of soldering operations or deformation of the connector
bodies as a result of overheating.

- ① For prototypes and short runs cover the connectors with an industrial
adhesive tape, e.g. Tesaband 4657 grey. Tape the underside of the
connector moulding and adjacent parts of the P.C. Board and tape up
the open end of the connector. This will prevent heat and gases from
the soldering apparatus damaging the connector. About 140 + 5 mm
of tape should be sufficient.
- ② For large run production a jig is recommended. This has a protective
cover with a fast action mechanical locking device that shields the
connector from the gas and heat generated by the soldering ap-
paratus. For additional protection a foil can be used covering parts
not to be soldered.



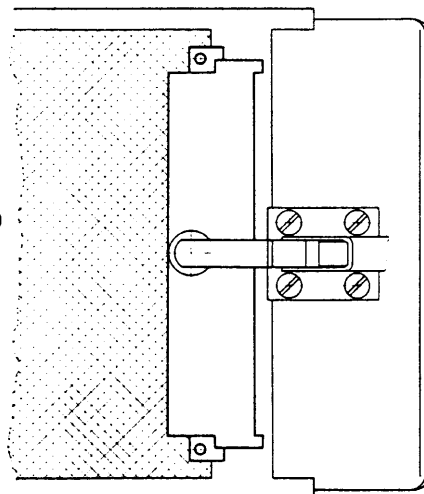
Adhesive tape

①



Intermediate foil

②



104-993/994

Number of contacts

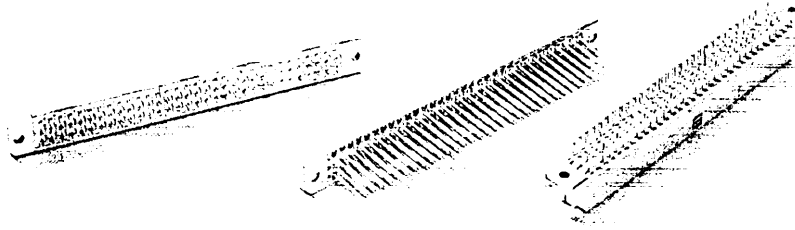
96, 64, 32

Female connectors

Identification	Number of contacts	Contact arrangement	Performance levels according to DIN 41 612, explanations page 10			
			Part No. 3	2	1	VG
Female connector with solder pins 2.5 mm	96		09 03 196 7824	09 03 196 6824	09 03 196 2824*	09 03 196 4824*
	64		09 03 164 7824	09 03 164 6824	09 03 164 2824*	09 03 164 4824*
	32		09 03 132 7824	09 03 132 6824	09 03 132 2824*	09 03 132 4824*
	32		09 03 132 7834	09 03 132 6834	09 03 132 2834*	
Female connector with solder pins 4 mm	96		09 03 196 7825	09 03 196 6825	09 03 196 2825*	09 03 196 4825*
	64		09 03 164 7825	09 03 164 6825	09 03 164 2825*	09 03 164 4825*
	32		09 03 132 7825	09 03 132 6825	09 03 132 2825*	09 03 132 4825*
	32		09 03 132 7835	09 03 132 6835	09 03 132 2835*	
Female connector with solder pins 7 mm	96		09 03 196 7827	09 03 196 6827	09 03 196 2827*	
	64		09 03 164 7827	09 03 164 6827	09 03 164 2827*	
	32		09 03 132 7827	09 03 132 6827	09 03 132 2827*	
	32		09 03 132 7837	09 03 132 6837	09 03 132 2837*	
Female connector with wrap posts 13 mm	96		09 03 196 7821	09 03 196 6821	09 03 196 2821*	09 03 196 4821*
	64		09 03 164 7821	09 03 164 6821	09 03 164 2821*	09 03 164 4821*
	32		09 03 132 7821	09 03 132 6821	09 03 132 2821*	09 03 132 4821*
	32		09 03 132 7831	09 03 132 6831	09 03 132 2831*	
Female connector with wrap posts 17 mm	96			09 03 196 6811*		
	64			09 03 164 6811*		
	32			09 03 132 6811*		
Female connector with solder lugs	96		09 03 196 7823	09 03 196 6823	09 03 196 2823*	
	64		09 03 164 7823	09 03 164 6823	09 03 164 2823*	
	32		09 03 132 7823	09 03 132 6823	09 03 132 2823*	

Female connector with press-in terminations

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

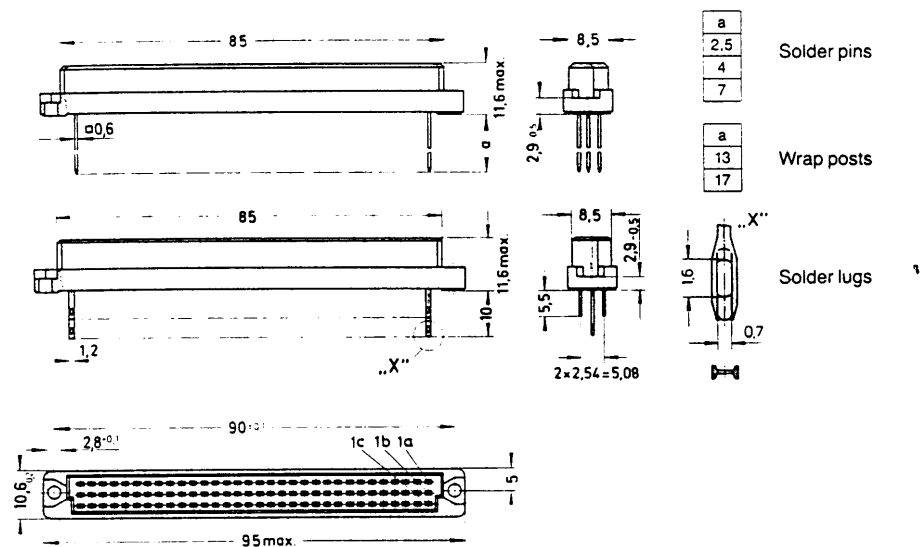


Identification

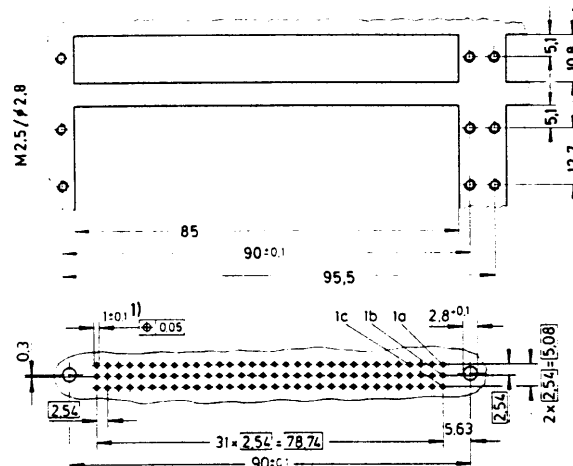
Female connectors
type C
DIN 41 612

Drawing

Dimensions in mm



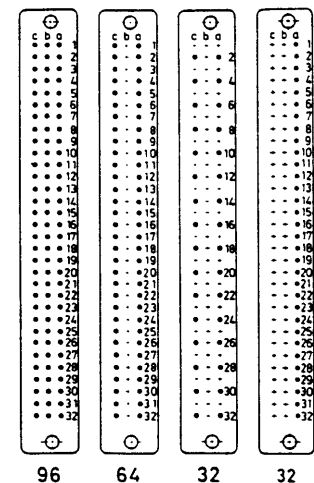
Panel cut out



Board drillings

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

Contact arrangement
View from termination side



Identification

Part No.

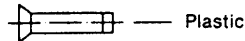
Drawing

Dimensions in mm

Coding system with loss of contact

Code pin
Gds A-B, A-2 B,
Gds A-C, A-2 C,
Gds A-CH, A-M,
Gds A-Q, A-2 Q,
Gds A-R, A-2 R
09 02 000 9901

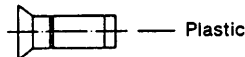
To avoid accidental incorrect mating of adjacent connectors a coding system is required. Coding is effected by means of a code pin to be inserted into the selected chamber of the female connector (contact cavity must be filled!). The opposite male contact must be removed by means of a specially designed tool.



Removal-tool
for male
contacts
09 99 000 0133



Code pin
Gds A-D, A-E,
Gds A-F/FC
Gds A-FM,
Gds A-2F/FC,
Gds A-MH
09 04 000 9908



Removal-tool
for male
contacts
09 99 000 0038



Coding system without loss of contact

with code pin

Code pin
09 06 000 9950



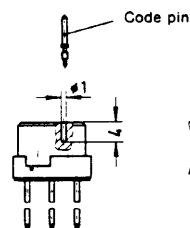
Insertion tool
09 99 000 0103



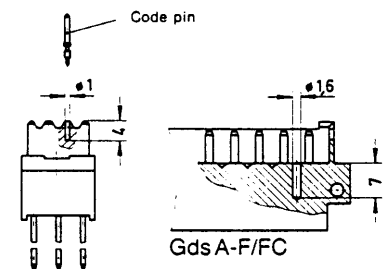
At the position desired a hole has to be drilled at one of the marked points between the contacts-rows of the male connector (see also drawing). The code pin can then be inserted into the opposing bore of the female connector by means of an insertion-tool.

This coding system is at present only applicable for Gds A-D, Gds A-E, Gds A-F/FC and interface connectors I Gds A-F/FC.

Mounting example



Gds A-D, Gds A-E



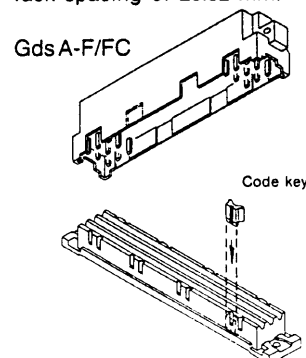
Gds A-F/FC

shroud coding

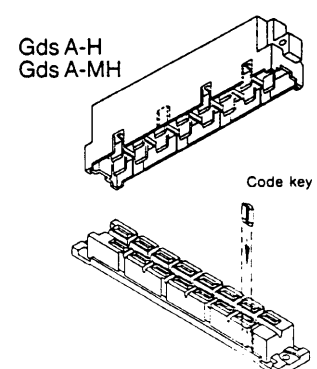
Gds A-F/FC
Gds A-H, MH

Code key
09 06 001 9919
09 06 001 9918

Insert the code key into one of the keyways in the female connector. Break out the corresponding area of the male shroud. Connectors utilising this coding method can only be used at a minimum rack spacing of 20.32 mm.



Gds A-F/FC



Gds A-H
Gds A-MH

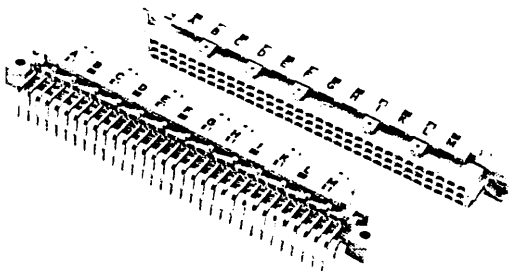
Identification	Part No.	Drawing	Dimensions in mm
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Coding system <u>without</u> loss of contact		To avoid accidental incorrect mating of adjacent connectors a coding system is required. The coding facility is an integral part of the connectors. The 12 coding pins, which are supplied under a separate part number, allow over 900 coding variations. These pins are locked into the male- and female connector.	
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Male and female connectors		These connectors with coding facility are supplied for types B, C, D, E, F/FC, Q and R to DIN 41 612 and are available for all versions and variants. Please contact us.	
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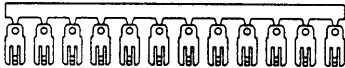
Gds A-B, A-C,
Gds A-D, A-E,
Gds A-F/FC,
Gds A-Q, A-R

on request



Code pins

12 on
comb
09 02 000 9928



Mounting example

B Q C R D D E E F/FC F/FC

