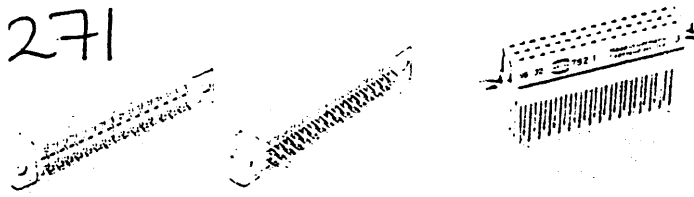




316-260  
-271

Number of contacts

48, 32, 16

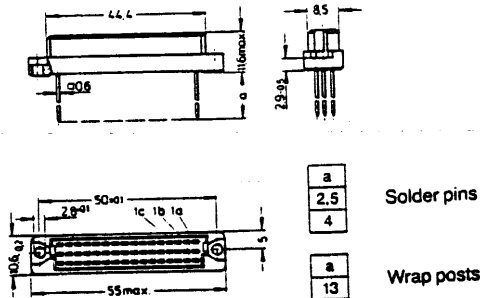


Female connectors

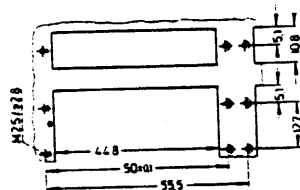
Identification	Number of contacts	Contact arrangement	Part No. Performance levels according to DIN 41 612, explanations page 10		
			3	2	1
Female connector with solder pins 2.5 mm	48		09 23 148 7824	09 23 148 6824	09 23 148 2824*
	32		09 23 132 7824	09 23 132 6824	09 23 132 2824*
	16		09 23 116 7834	09 23 116 6834	09 23 116 2834*
Female connector with solder pins 4.0 mm	48		09 23 148 7825	09 23 148 6825	09 23 148 2825*
	32		09 23 132 7825	09 23 132 6825	09 23 132 2825*
	16		09 23 116 7835	09 23 116 6835	09 23 116 2835*
Female connector with wrap posts 13 mm	48		09 23 148 7821	09 23 148 6821	09 23 148 2821*
	32		09 23 132 7821	09 23 132 6821	09 23 132 2821*
	16		09 23 116 7831	09 23 116 6831	09 23 116 2831*

2C

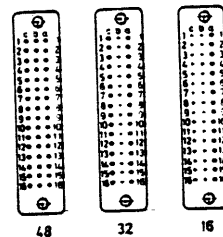
Dimensions



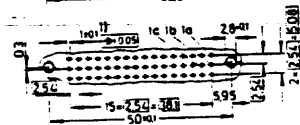
Panel cut out



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

3

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 SO<sub>2</sub>.  
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 SO<sub>2</sub>.  
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

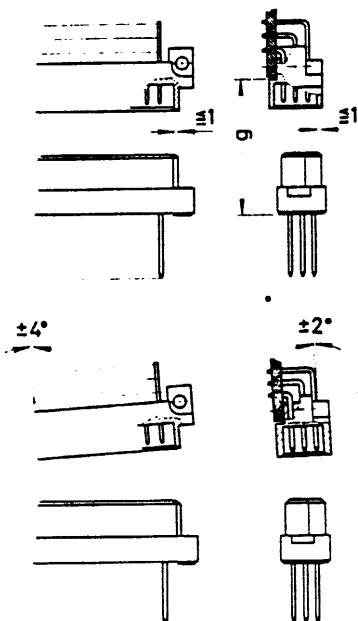
500 mating cycles – then 1 day gas test using 10.000 ppm SO<sub>2</sub> and 1 day gas test using 10.000 ppm H<sub>2</sub>S.  
Then visual inspection. No abrasion of the contact finish through to the base material. No functional impairment.

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

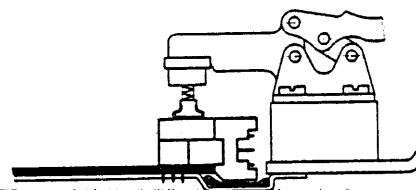
The male connectors of the Gds A series should be protected when soldering using dip, flow or film soldering baths, against contamination as a result of soldering operations or deformation of the connector bodies as a result of overheating.

- 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 apparatus. For additional protection a foil can be used covering parts not to be soldered.



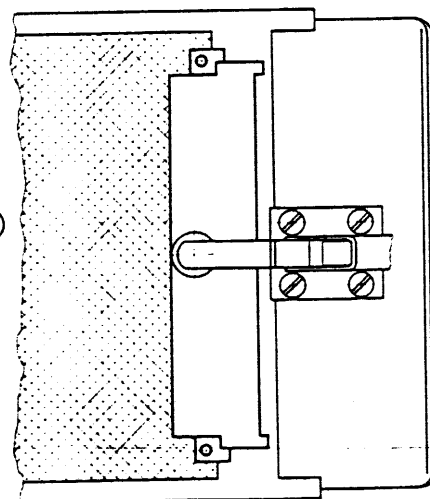
Adhesive tape

①



Intermediate foil

②



**Identification**

**Part No.**

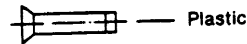
**Drawing**

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

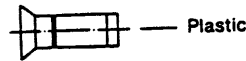
To avoid accidental incorrect mating of adjacent connectors a coding system is required. Coding is effected by means of a code pin to be inserted into the selected chamber of the female connector (contact cavity must be filled!). The opposite male contact must be removed by means of a specially designed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



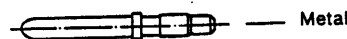
At the position desired a hole has to be drilled at one of the marked points between the contacts-rows of the male connector (see also drawing). The code pin can then be inserted into the opposing bore of the female connector by means of an insertion-tool.

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

**Coding system without loss of contact**

with code pin

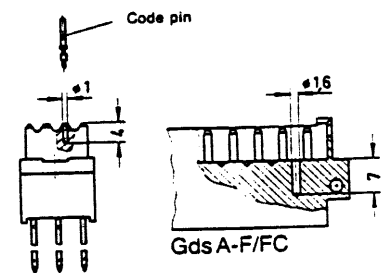
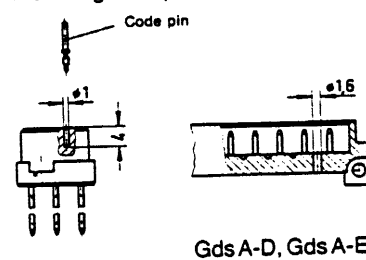
**Code pin**  
09 06 000 9950



**Insertion tool**  
09 99 000 0103



**Mounting example**



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.

