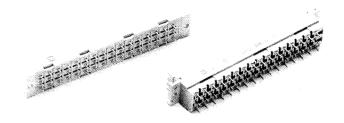


Number of contacts

48, 32



Female connectors

	Identification	Number of contacts	Contact arrangement	Part No. 3	Performance level	s according to DIN 4 2	1 612, ex	planations page 10 1
	Female connector with solder pins 3.2 mm	48	2 4 b 0 • • d • •	09 06 24 09 06 24		09 06 248 6848 09 06 248 6833 ¹)		09 06 248 2848* 09 06 248 28331)*
		32	2 4 b • • • d + +	09 06 23 09 06 23		09 06 232 6848 09 06 232 6833 ¹)		09 06 232 2848* 09 06 232 2833 ¹)*
	Female connector with solder pins 4.5 mm	32	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	09 06 23: 09 06 23:		09 06 232 6858 09 06 232 6893 ¹)		09 06 232 2858* 09 06 232 28931)*
		48	z 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	09 06 24 09 06 24		09 06 248 6835 09 06 248 68341)		09 06 248 2835* 09 06 248 2834¹)*
		32	z	09 06 23: 09 06 23:		09 06 232 6835 09 06 232 68341)		09 06 232 2835* 09 06 232 2834 ¹)*
	Female connector with wrap posts 22 mm	32	z 4 b 0 + + d • •	09 06 23: 09 06 23:		09 06 232 6845 09 06 232 6894 ¹)		09 06 232 2845* 09 06 232 2894¹)*
		48	2 6 0 0 0 d 0 0	09 06 24	3 7821	09 06 248 6821		09 06 248 2821*
		32	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	09 06 232	27821	09 06 232 6821		09 06 232 2821*
		32 '	z 2 4 b 0 + + d 0 + + +	09 06 232	2 7831	09 06 232 6831		09 06 232 2831*
	Female connector with solder lugs							
The state of the s	open solder lug	48	z	09 06 248	3 7823	09 06 248 6823		09 06 248 2823*
	A	32	2 4 b 0 • • d + +	09 06 232	2 7823	09 06 232 6823		09 06 232 2823*
	closed solder lug	32	z	09 06 232	27843	09 06 232 6843		09 06 232 2843*
		48	2 4 0 0 0 d 0 0	09 06 248	3 7853	09 06 248 6853		09 06 248 2853*
		32	7 b 0 a a d + +	09 06 232	2 7853	09 06 232 6853		09 06 232 2853*
3		32	2 4 b 0 + + d • •	09 06 232	27863	09 06 232 6863		09 06 232 2863*

58

F/FC

Gds A-F/FC DIN 41 612 · VG 95 324 · Type F Dimensions in mm Drawing Identification Female connectors a 3,2 type F low profile Solder pins DIN 41 612 4,5 2d 2b 2z а 3,2 Solder pins 0,6 F/FC a b Wrap posts Solder lugs "X" 2x5,08=10,16 2d 2b 2z open closed Contact arrangement Panel cut out View from termination side d + b + z M2,5/\$2,8 + 6 + 8• • 10 • + 10 • • 10 • • 12 • 14 • 90:0,1 • 14 • 95,5 • 16 • 16 + 18• • 18 • • 18 • + 20 € • 20 • 20 **Board drillings** ⊕ 0,05 + 22 • • 22 • 22 • 24 + 24• • 26 • 26 • + 26 • + 28● • 28 • low profile + 30● • 30 + 32• 15 x 5,08 (=76,20) • 32 Φ Φ 32 32 48 all holes ⊕ 0,05

15× 5,08 (=76,20)

page 10 page 92

page 88

Mating conditions

Coding information

Marking strips



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
200 mating cycles

4 days gas test using 10 ppm SO₂.

Measurement of contact resistance.
then visual inspection. No abrasion of the
contact finish through to the base material.

No functional impairment.

Part-number-explanation

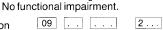
09 6 . . .

Performance level 1 as per DIN 41612, part 5

500 mating cycles.

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

Part-number-explanation



VG Version as per VG 95 324, part 1

500 mating cycles – then 1 day gas test using 10.000 ppm SO_2 and 1 day gas test using 10.000 ppm H_2S . Then visual inspection. No abrasion of the contact finish through to the

base material. No functional impairment.

Part-number-explanation

09



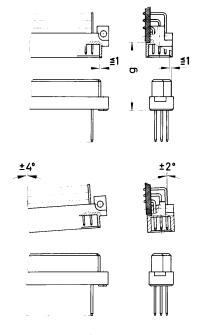
Other plating finishes available on request.

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.

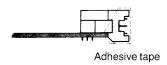


g = 124 - 142

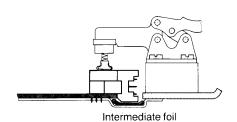
Soldering the male connectors into P.C. Boards

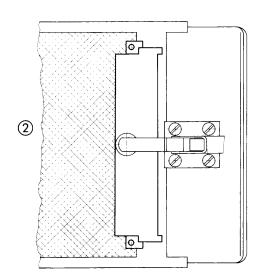
The male connectors of the Gds A series should be protected when soldering using dip, flow or film soldering baths, against contamination as a result of soldering operations or deformation of the connector bodies as a result of overheating.

- 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.









DIN 41612 · VG 95324 Gds A



Identification

Part No.

Drawing

Dimensions in mm

Marking strips for female connectors

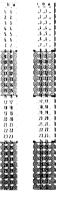
When using female connectors with wrapping posts in small and medium-sized quantities the wiring on a fully automated wiring machine is not always justified. However, when working with a manual wiring device there may be a problem of identification of the correct terminal, especially when using a high packing-density.

Therefore HARTING has developed marking strips with green and white printed fields showing also the row-letters and terminal-numbers. These can be mounted on the female connectors before starting the wiring.

Colour of letters/figures: black white/green

Gds A-B 09 02 000 9939

Gds A-C 09 03 000 9939



Colour of fields:



Gds A-F/FC 09 06 000 9939

Starting with white field

09 06 000 9940

Starting with green field



Identification

Part No.

Drawing

Dimensions in mm

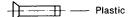
Coding system with loss of contact

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

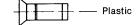
Removal-tool for male contacts 09 99 000 0133

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 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.









Coding system without loss of contact

with code pin

Code pin 09 06 000 9950

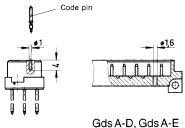
Insertion tool 09 99 000 0103

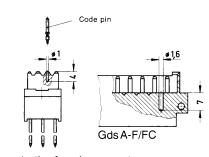
At the position desired a hole has to be drilled at one of the marked points between the contacts-rows of the male connector (see also drawing). The code pin can then be inserted into the opposing bore of the female connector by means of an insertion-tool.

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





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.

