Gds A-M DIN 41 612 · VG 95 324 · Type M



Identification	Part No. Male contacts for	Performance level 2 Female contacts for	Drawing	Dimensions in mm
High current contacts 10 A for straight crimp 20 A terminations 40 A First mate contact 10 A 20 A 40 A Crimping tool for high current contacts	male connector 09 03 000 6113 09 03 000 6114 09 03 000 6115 09 03 000 6123 09 03 000 6124 09 03 000 6125	female connector 09 03 000 6213 09 03 000 6214 09 03 000 6215	7,9 04.8 04.8 7.9 7.9 04.8 7.9 04.8 7.9 04.8 7.9 04.8 07.0 08	<u>।</u> ज
High current contacts High current contacts for 10 A straight solder 20 A terminations 40 A First mate contact 10 A 20 A 40 A	male connector 09 03 000 6101 09 03 000 6102 09 03 000 6103 09 03 000 6111 09 03 000 6133	female connector 09 03 000 6201 09 03 000 6202 09 03 000 6203	7.8 \$\frac{\phi_{4.8}}{6.7}\$ \$\frac{\phi_{4.8}	
High current contacts for printed circuit terminations 10 A	male connector 09 03 000 6104		2.00 2.00	1) Solder pins for hole \varnothing 1 \pm 0.1 mm
High voltage contacts for straight solder terminations 2.8 kV	male connector	female connector 09 03 000 6240	12.7	Wire gauge max. 0.5 mm²
Coaxial contacts for straight solder and/or crimp terminations	female connector	male connector without knurled area 09 03 000 6260		n/without rled area
Coaxial contacts for angled solder and/or crimp terminations	09 03 000 6161	with knurled area 09 03 000 6274	23.9 23.9 23.9 23.9 23.9 23.9 23.9 23.9	
Coaxial contacts for printed circuit terminations		09 03 000 6262	0.6	
Crimping tool for coaxial contacts	09 99 000 0194		-5.08	1) Solder pins for hole Ø 1 ± 0.1 mm
Removal tool for contacts	09 99 000 0174		70	
Characteristics		Cooviol	contacts High current contacts	High voltage contacts

Characteristics
for contacts
and wires

	Coaxial contacts	High current contacts	High voltage contacts
Impedance	50Ω	-	
Insulation resistance	$10^{12}\Omega$		<u> </u>
Contact resistance		max. 1.5 mΩ	
Internal wire	≦ 10 mΩ	_	≦ 3 mΩ
External wire	≦ 3mΩ		_
Working voltage	250 V ~	_	2.8 kV
Voltage resistance	750 V ~		3.8 kV
Max. working current	1.5 A	40 A	1.5 A
Contact finish	perf. level 2	perf. level 2	perf. level 2
Cable group	2		- ,

Cable group 2 flexible wires	Shell ∅	Screening Ø	Dielectric ∅	Internal wire	Hexagonal crimp Spanner width
RG 174 A/U	2.5	2.0	1.5	0.48	3.25
RG 188 A/U	2.6	2.0	1.5	0.54	3.25
RG 316/U	2.5	2.0	1.5	0.54	3.25

Technical characteristics Gds A-D, Gds A-E



Number of contacts

Gds A-D 32 Gds A-E 48

Contact spacing (mm)

5.08

male connector 5.08×5.08 male connector 2.54 x 5.08 female connector 5.08 x 5.08

Working current

see current carrying capacity chart

Clearance

Gds A-D, Gds A-E Gds A-E male connector row separation 2.54 mm

≥ 3.0 mm ≧ 1.6 mm

6 A max.

Creepage

≧ 3.0 mm according to the safety regulations

Working voltage The working voltage also depends on the clearance and creepage dimensions of the P.C. Board itself, and the associated wiring

Test voltage U_{r.m.s.}

1.55 kV ≦ 15 mΩ

Contact resistance $\leq 20 \text{ m}\Omega$ including crimp connection

of the equipment.

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Insulation resistance

 $\geq 10^{12} \Omega$

Temperature range The higher temperature limit includes

the local ambient and heating effect of the contacts under load

-65°C+125°C

Degree of protection for crimp IP 20

terminal according to DIN 40050

Electrical termination

Male connector Female connector Solder pins 0.6 x 0.6 mm

for P.C.B. connections Ø 0.8 + 0.3 mm

Wrap posts 1 x 1 mm diagonal 1.34-1.45 mm

Solder pins Ø 0.7 mm for P.C.B. connections

 \emptyset 1.0 \pm 0.1 mm according to IEC 326

Angled solder pins 1 x 1 mm for P.C.B. connections \emptyset 1.6 \pm 0.1 mm

Crimp terminal 0.09-1.5 mm²

Insertion and withdrawal force 32 way ≤ 40 N

48 way ≦ 75 N

Materials

Mouldings

Thermoplastic resin, glass-fibre filled

Contacts

Copper alloy

Contact surface

Contact zone: selectively gold plated

according to performance level1)

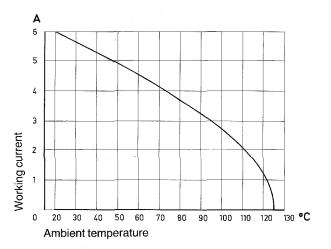
Termination zone: tinned

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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

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



Fitting the crimp contacts

After crimping the wires onto the contacts the crimp contacts are correctly orientated and inserted into cavities in the connector body in the required configuration. They snap into position and are firmly held in place. A light pull on the wire will check that they are correctly located. When using stranded wire having a gauge below 0.37 mm², an insertion tool is required.

Removing the crimp contacts

The removal tool is inserted into a slot on the side of the respective crimp cavity. This action compresses the contact retaining spring and the contact can then be easily withdrawn using a light pull on the wire. This action will cause no damage to the contact/wire which can be repositioned/refitted as necessary. The diagram demonstrates the crimp removal procedure (max. 5 x).

