

**Number of contacts** 9, 15, 25, 37, 50  
UL recognized

### Working current

see current carrying capacity chart

Turned contacts 7.5 A max.  
Stamped contacts 6.5 A max.  
Insulation displacement 2 A max.

**Test voltage  $U_{r.m.s.}$**  1 kV

**Clearance and creepage**  $\geq 1.0$  mm  
 $\geq 0.7$  mm (insulation displacement)

**Contact resistance**  $\leq 10$  m $\Omega$

**Insulation resistance**  $\geq 10^{10}$   $\Omega$

**Temperature range** -55 °C + 125 °C  
-55 °C > + 200 °C \*

\* solder high temperature and press in

The higher temperature limit includes the local ambient and heating effect of the contacts under load

### Terminations

- a) Solder buckets max 0.5 mm<sup>2</sup>
- b) Solder pins  $\varnothing$  0.6 mm for P.C.B. holes  $\varnothing$  0.8/1 mm
- c) Press-in terminations  
Recommended P.C.B. trough holes

	press-in pin	Grounding pin
Hole:	1.15 <sup>+0.03</sup> mm	3.15 <sup>+0.025</sup> mm
Cu:	25-75 $\mu$ m	25-75 $\mu$ m
Sn:	5-15 $\mu$ m	4-10 $\mu$ m
Plated hole	0.94-1.09 mm	3.0-3.15 mm

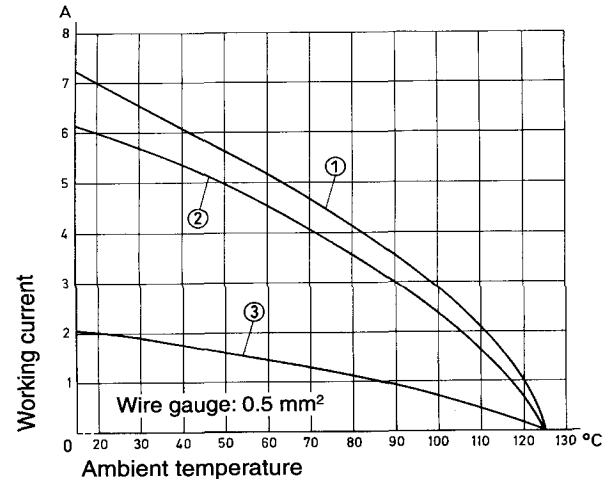
P.C.B. board thickness: 1.4-3.2 mm

- d) Solder pins, angled 90°  
 $\varnothing$  0.6 mm for P.C.B. holes  $\varnothing$  1 mm
- e) Wrap posts 0.6 x 0.6 mm  
diagonal 0.8-0.86 mm length 13 mm
- f) Crimp contacts 0.09-0.56 mm<sup>2</sup>  
AWG 28-20
- g) Insulation displacement  
AWG 28/7 and AWG 26/7  
AWG 28/1 and AWG 30/1

### 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.

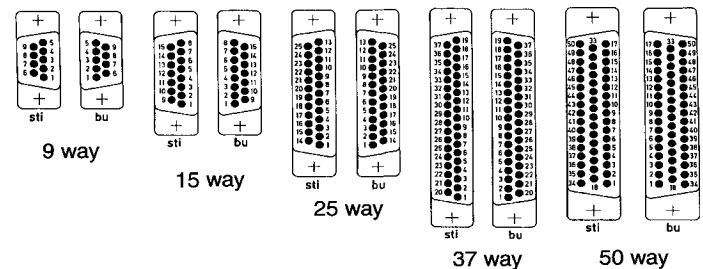
Control and test procedures according to DIN 41 640, part 3.



Example: 25 way connector

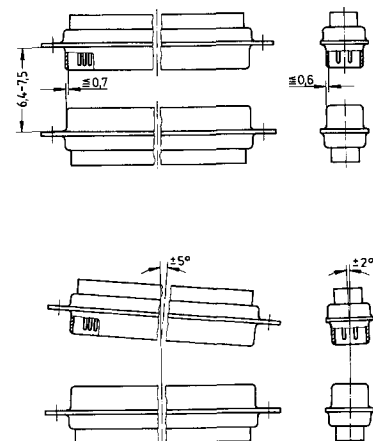
- ① Turned contacts
- ② Stamped contacts
- ③ Insulation displacement contacts

### Contact arrangement View from termination side



sti = Male connector  
bu = Female connector

### Mating conditions as per DIN 41 652



### Materials

Mouldings and hoods

Thermoplastic resin, glass-fibre filled (PBTP), except solder high temperature and press-in version, which are in Liquid Crystal Polymer (LCP), UL 94-VO

### Contacts

Part. No. 09 66 . . .  
Part. No. 09 67 0 . . .  
Part. No. 09 67 2 . . .  
Part. No. 09 68 . . .

Copper alloy  
Male und Female : stamped  
Male and Female : turned  
Male and Female : stamped  
Male and Female : stamped

### Contact surface<sup>1)</sup>

Contact zone: selectively gold-plated according to performance level<sup>1)</sup>

### Termination zone:

- a) Soldering: SnPb
- b) Press-in: Ni

### Metal shell

Steel surface, tinned

### Insertion and withdrawal force

Connector on P.C.B.	insertion max. per connector:	60 N
Solder, straight with clips	withdrawal min. per connector:	10 N
Press-in without grounding pins	insertion max. per contact:	120 N
	withdrawal min. per contact:	20 N
Press-in with grounding pins	insertion max. per grounding pin:	250 N
	withdrawal min. per grounding pin:	30 N
Female connector with male connector	9 way $\leq 30$ N, 15 way $\leq 50$ N, 25 way $\leq 83$ N, 37 way $\leq 123$ N, 50 way $\leq 167$ N	

<sup>1)</sup> Performance Level 3 as per DIN 41 652, part 2  
 $\geq 50$  mating cycles, no gas test

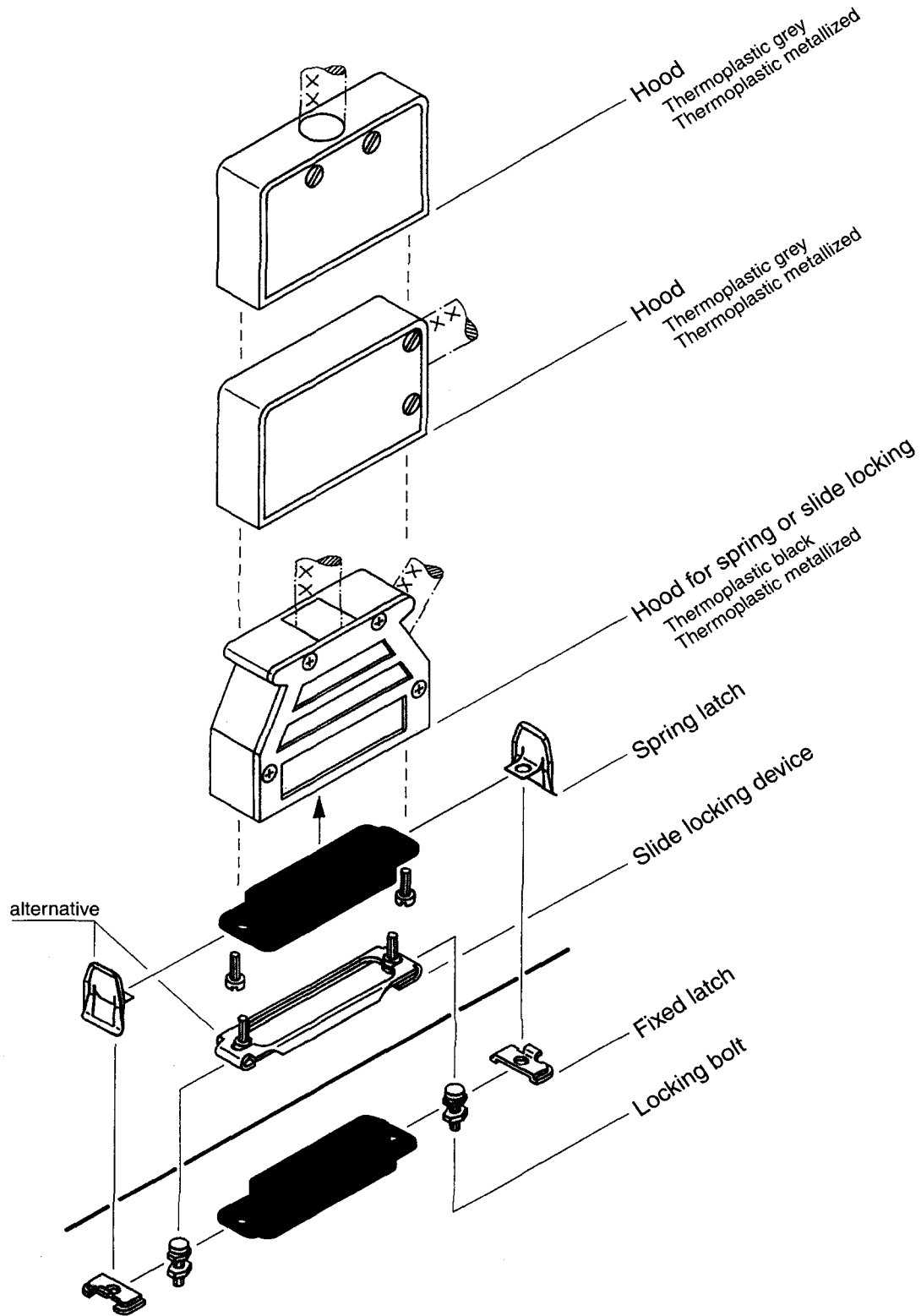
<sup>1)</sup> Performance Level 2 as per DIN 41 652, part 2  
 $\geq 200$  mating cycles, 4 days gas test using 10 ppm SO<sub>2</sub>

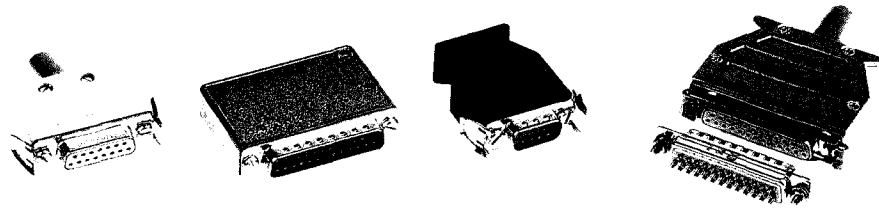
Other performance levels on request

# D-Sub



## Connector hoods for spring or slide locking





## Hoods for spring or slide locking and accessories

Identification	No. of contacts	Part No.		Drawing	Dimensions in mm																																																
Hood top cable entry	9 15 25 37 50	Thermoplastic grey RAL 7032	Thermoplastic metallized		<table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b<sub>1</sub></th> <th>b<sub>2</sub></th> <th>c</th> <th>d</th> <th>min.<sup>e</sup></th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>31</td> <td>23</td> <td>28</td> <td>12.8</td> <td>10</td> <td>5.75</td> <td>9</td> </tr> <tr> <td>15</td> <td>39.4</td> <td>28</td> <td>28</td> <td>12.8</td> <td>10</td> <td>5.75</td> <td>9</td> </tr> <tr> <td>25</td> <td>53.3</td> <td>34</td> <td>34</td> <td>12.8</td> <td>14</td> <td>5.75</td> <td>9</td> </tr> <tr> <td>37</td> <td>69.7</td> <td>43</td> <td>43</td> <td>12.8</td> <td>20</td> <td>5.75</td> <td>9</td> </tr> <tr> <td>50</td> <td>67.1</td> <td>41</td> <td>41</td> <td>15.8</td> <td>20</td> <td>5.75</td> <td>11.6</td> </tr> </tbody> </table>		a	b <sub>1</sub>	b <sub>2</sub>	c	d	min. <sup>e</sup>	max.	9	31	23	28	12.8	10	5.75	9	15	39.4	28	28	12.8	10	5.75	9	25	53.3	34	34	12.8	14	5.75	9	37	69.7	43	43	12.8	20	5.75	9	50	67.1	41	41	15.8	20	5.75	11.6
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<sup>1)</sup> 9 poles is only side

<sup>2)</sup> Order 2 for each connector