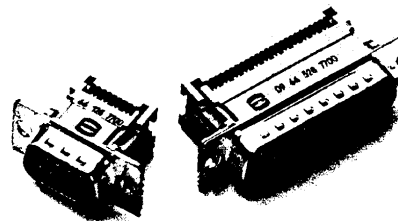
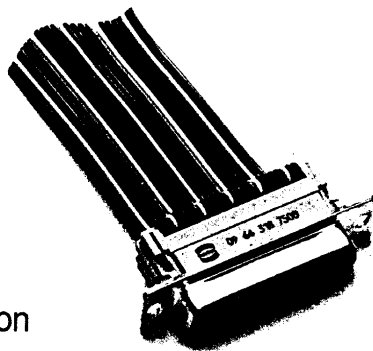




Number of contacts

**9-37**



Insulation displacement termination

Identification

Performance levels

Explanations page 6  
Other contact surfaces on request

Male connector

– insulation displacement termination

pitch 1.27 mm  
tinned metal shell  
and dimples

Female connector

– insulation displacement termination

pitch 1.27 mm  
tinned metal shell

Strain relief clamp

corrosion resistant steel  
for male and female connectors

No. of contacts



Performance level

3

Preferred types

Performance level

2

Part No.

9	09 66 128 7700	09 66 128 6700
15	09 66 228 7700	09 66 228 6700
25	09 66 328 7700	09 66 328 6700
37	09 66 428 7700	09 66 428 6700

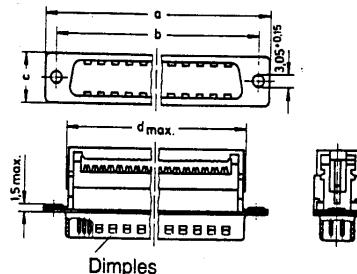
9	09 66 118 7500	09 66 118 6500
15	09 66 218 7500	09 66 218 6500
25	09 66 318 7500	09 66 318 6500
37	09 66 418 7500	09 66 418 6500

9	09 66 108 0000	09 66 108 0000
15	09 66 208 0000	09 66 208 0000
25	09 66 308 0000	09 66 308 0000
37	09 66 408 0000	09 66 408 0000

Dimensions

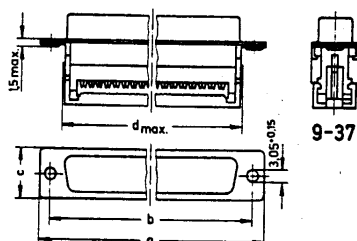
Dimensions in mm

Male connector



	a-076	b	c-076	d
9	31,19	25	12,93	18,6
15	39,52	33,3	12,93	26,9
25	53,42	47	12,93	40,6
37	69,7	63,5	12,93	57,1

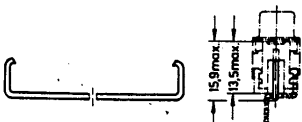
Female connector



Specified conductors

stranded wires AWG 28/7  
AWG 26/7  
solid wires AWG 30/1  
AWG 28/1

Strain relief clamp



# Technical characteristics



Number of contacts 9, 15, 25, 37, 50

## 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

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

## Terminations

- Solder buckets max. 0.5 mm<sup>2</sup>
- Solder pins  $\varnothing$  0.6 mm for PC.B. holes  $\varnothing$  0.8/1 mm
- Solder pins, angled 90°  $\varnothing$  0.6 mm for PC.B. holes  $\varnothing$  1 mm
- Wrap posts 0.6 x 0.6 mm diagonal 0.8-0.86 mm length 13 mm
- Crimp contacts 0.09-0.56 mm<sup>2</sup> AWG 28-20
- Insulation displacement AWG 28/7 and AWG 26/7 AWG 28/1 and AWG 30/1

## Materials

Mouldings and hoods Thermoplastic resin, glass-fibre filled (PBTP) UL 94-VO

Contacts Copper alloy  
 Contact versions  
 Part No. 09 66 ...  
 Male : solid  
 Female : stamped  
 Insulation displacement : stamped  
 Part No. 09 67 ...  
 Male and female : turned  
 also stamped versions,  
 for details see following pages

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

Metal shell Steel  
 Surface  
 a) tinned  
 b) zinc-plated and yellow chromated

Insertion and withdrawal force  
 9 way  $\geq 30$  N  
 15 way  $\geq 50$  N  
 25 way  $\geq 83$  N  
 37 way  $\geq 123$  N  
 50 way  $\geq 167$  N

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

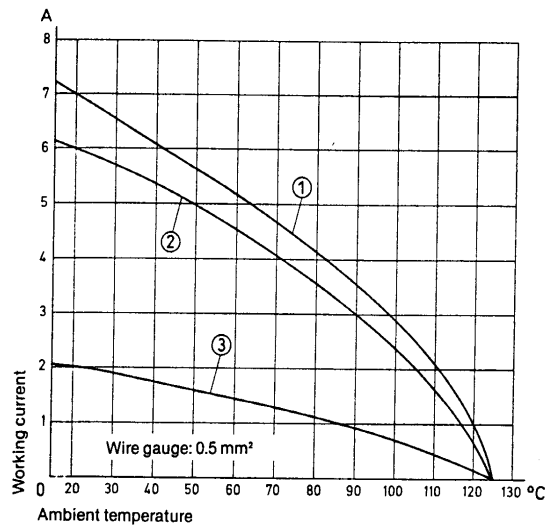
<sup>1)</sup> Performance Level 2 as per DIN 41 652, part 2  
 $\geq 200$  mating cycles  
 4 day gas test using 10 ppm SO<sub>2</sub>

Other contact surfaces on request

## 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.

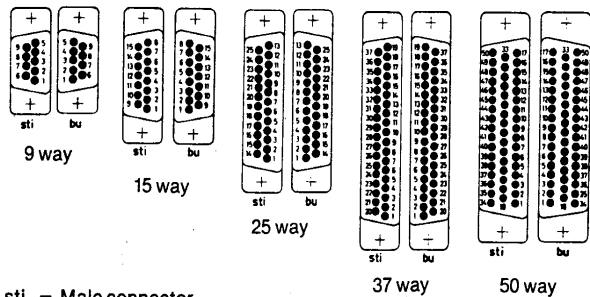
Control and test procedures according to DIN 41 640, part 3.



Example: 25 way connector

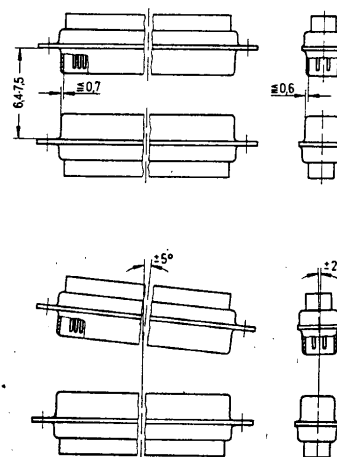
- Turned contacts
- Stamped contacts
- Insulation displacement contacts

## Contact arrangement View from termination side



sti = Male connector  
 bu = Female connector

## Mating conditions as per DIN 41 652



Identification

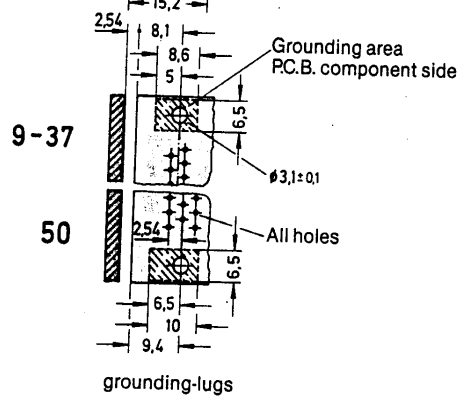
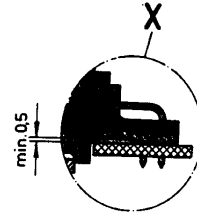
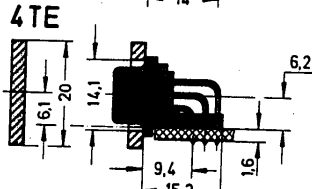
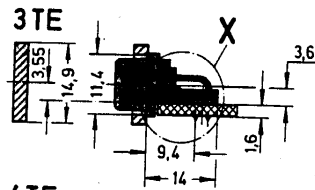
Drawing

Dimensions in mm

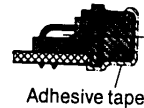
## Low Profile Versions

Mounting height 3.6 mm  
9-37 way  
for front panel  
3 units of width (TE)

Mounting height 6.2 mm  
50 way  
for front panel  
4 units of width (TE)



When flow soldering protect the mating face of the connector with adhesive tape e.g. Tesaband 4657 grey.

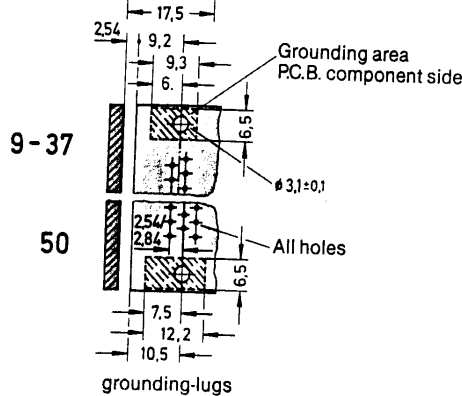
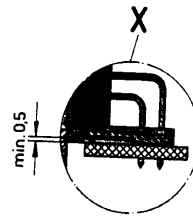
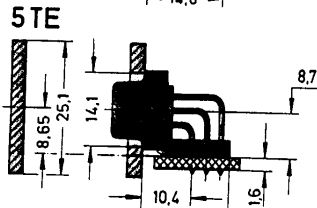
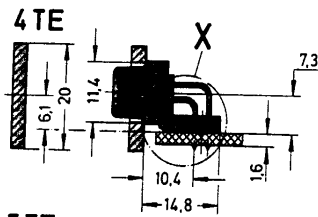


for connectors page 12-13

## Standard Versions

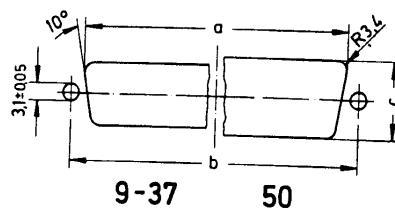
Mounting height 7.3 mm  
9-37 way  
for front panel  
4 units of width (TE)

Mounting height 8.7 mm  
50 way  
for front panel  
5 units of width (TE)



for connectors page 14-16

Panel cut out for front panel



	a	b±0,1	c
9	20,5	25	11,4
15	28,8	33,3	11,4
25	42,5	47	11,4
37	59,1	63,5	11,4
50	56,3	61,1	14,1

Cables and tools

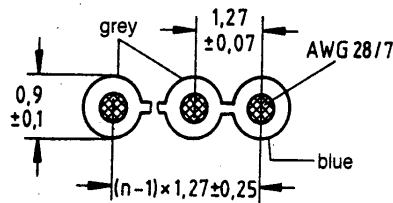
Identification	Part No. Preferred types	Dimensions in mm
----------------	-----------------------------	------------------

Flat cable

AWG 28/7

9 way	09 18 009 700
15 way	09 18 015 700
25 way	09 18 025 700
37 way	09 18 037 700

grey	30.48 m	3
grey	152.40 m	4
colourcoded	30.48 m	5



Wire (tinned) Cu  
 Gauge AWG 28/7 0.089 mm<sup>2</sup>  
 Insulation material PVC  
 as per UL 2651

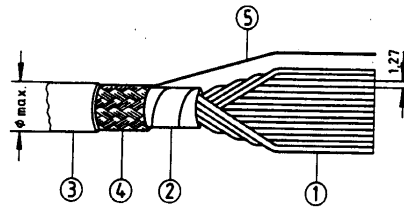
**Important:**  
 always store reels vertically

Round flat cable

AWG 28/7

9 way	09 18 009 700
15 way	09 18 015 700
25 way	09 18 025 700
37 way	09 18 037 700

with screening	7
without screening	8



Part No.	No. of contacts*			
	Ø max.			
	9	15	25	37
09 18 ... 7007	8,3	9,1	10,2	11,2
09 18 ... 7008	7,7	8,6	9,7	10,6

\*Others sizes on request

Length per reel 30.48 m (100 feet)

- ① Flat cable, grey AWG 28/7
- ② Barrier tape
- ③ Outer insulation PVC, grey
- ④ Tinned copper screen (shielded version)
- ⑤ Drain Wire AWG 28 (shielded version)

Cable cutter

for flat cables

09 99 000 0116

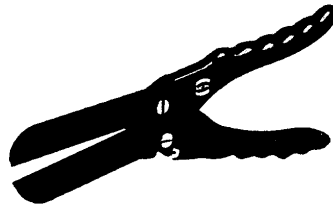
Spare parts

Blade

09 99 000 0179

Cutting plate

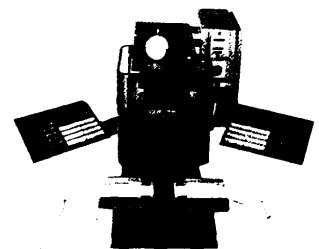
09 99 000 0180



Bench press

for termination of insulation displacement connectors and assembly of hoods

09 99 000 0114

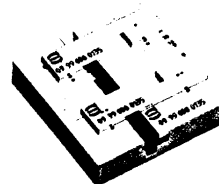


Harnessing work station and test equipment for flat cable assembly available on request.

Base plate

for termination of flat cables

09 99 000 0135



Hand tool with base plates

(included in tool kit)

for termination of insulation displacement connectors

09 99 000 0149

