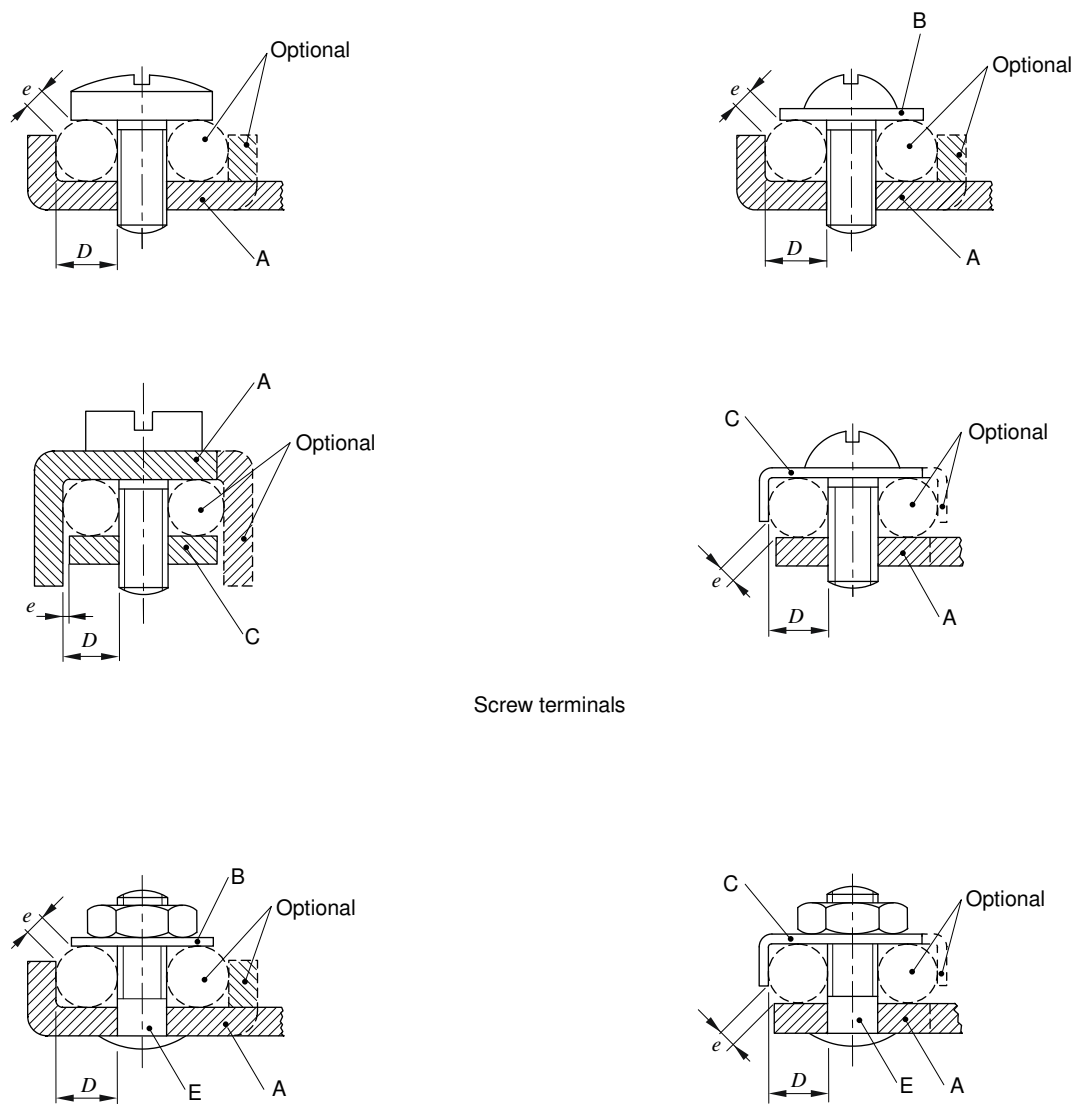


Screws not requiring washer, clamping plate or anti-spread device

Screws requiring washer, clamping plate or anti-spread device



Screw terminals

Stud terminals

IEC 2483/13

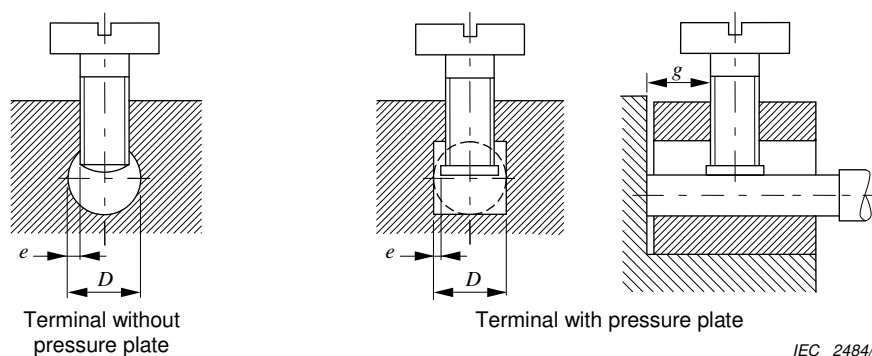
- A fixed part
- B washer or clamping plate
- C anti-spread device
- D conductor space
- E stud

Figure 10 – Screw terminals and stud terminals (1 of 2)

Dimensions in millimetres

Current carried by terminal ^a		Minimum diameter conductor space <i>D</i>	Maximum gap between conductor restraining parts <i>e</i>	Minimum torque Nm			
For flexible conductor A	For fixed conductor A			Slotted screws		Other screws	
				One screw <i>g</i>	Two screws <i>g</i>	One screw	Two screws
0-6	0-6	1,4	1,0	0,4	–	0,4	–
6-10	0-6	1,7	1,0	0,5	–	0,5	–
10-16	6-10	2,0	1,5	0,8	–	0,8	–
16-25	10-16	2,7	1,5	1,2	0,5	1,2	0,5
25-32	16-25	3,6	1,5	2,0	1,2	2,0	1,2
–	25-32	4,3	2,0	2,0	1,2	2,0	1,2
32-40	32-40	5,5	2,0	2,0	1,2	2,0	1,2
40-63	40-63	7,0	2,0	2,0	2,0	3,0	2,0
The part which retains the conductor in position may be of insulating material, provided that the pressure necessary to clamp the conductor is not transmitted through the insulating material.							
The sketches are not intended to govern design except as regards the dimensions shown.							
^a Requirements for applications greater than 63 A are under consideration.							

Figure 10 – Screw terminals and stud terminals (2 of 2)



Dimensions in millimetres

Current carried by terminal ^a		Minimum diameter conductor space <i>D</i>	Maximum gap between conductor restraining parts <i>e</i>	Minimum distance between clamping screw and end of conductor when fully inserted		Minimum torque Nm					
For flexible conductor A	For fixed conductor A					Screws without heads		Slotted screws		Other screws	
						One screw <i>g</i>	Two screws <i>g</i>	One screw	Two screws	One screw	Two screws
0-10	0-6	2,5	0,5	1,5	1,5	0,2	0,2	0,4	0,4	0,4	0,4
10-16	6-10	3,0	0,5	1,5	1,5	0,25	0,2	0,5	0,4	0,5	0,4
16-25	10-16	3,6	0,5	1,8	1,5	0,4	0,2	0,8	0,4	0,8	0,4
25-32	16-25	4,0	0,6	1,8	1,5	0,4	0,25	0,8	0,5	0,8	0,5
-	25-32	4,5	1,0	2,0	1,5	0,7	0,25	1,2	0,5	1,2	0,5
32-40	32-40	5,5	1,3	2,5	2,0	0,8	0,7	2,0	1,2	2,0	1,2
40-63	40-63	7,0	1,5	3,0	2,0	1,2	0,7	2,5	1,2	3,0	1,2
The part of the terminal containing the threaded hole and the part of the terminal against which the conductor is clamped by the screw may be two separate parts; as in the case of terminals provided with a stirrup.											
The shape of the conductor space may differ from those shown in the figures, provided a circle with a diameter equal to the minimum value specified for <i>D</i> can be inscribed.											
The minimum distance between the clamping screw and the end of the conductor when fully inserted applies only to the terminals in which the conductor cannot pass right through.											
The sketches are not intended to govern design except as regards the dimensions shown.											
^a Requirements for applications greater than 63 A are under consideration.											

Figure 11 – Pillar terminals

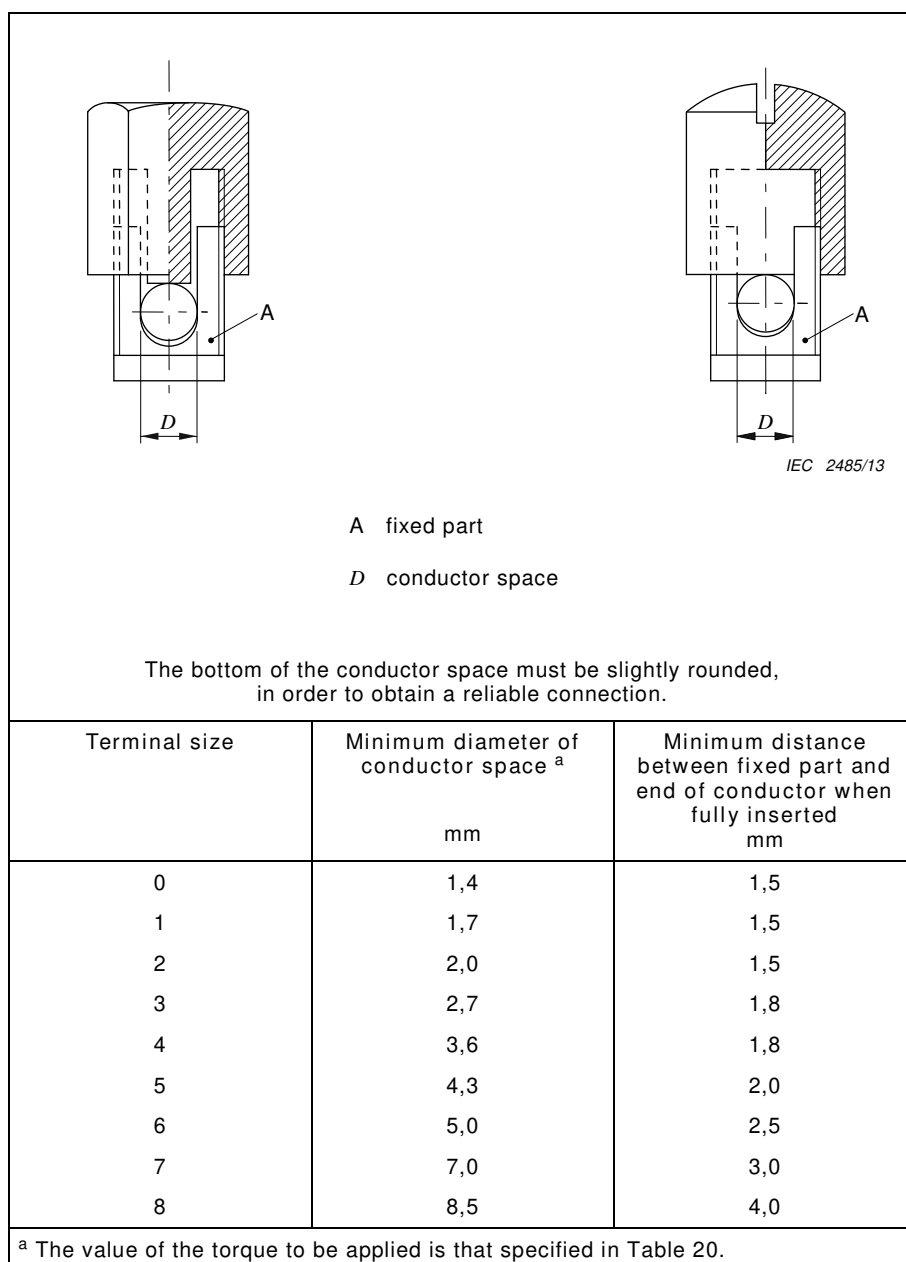
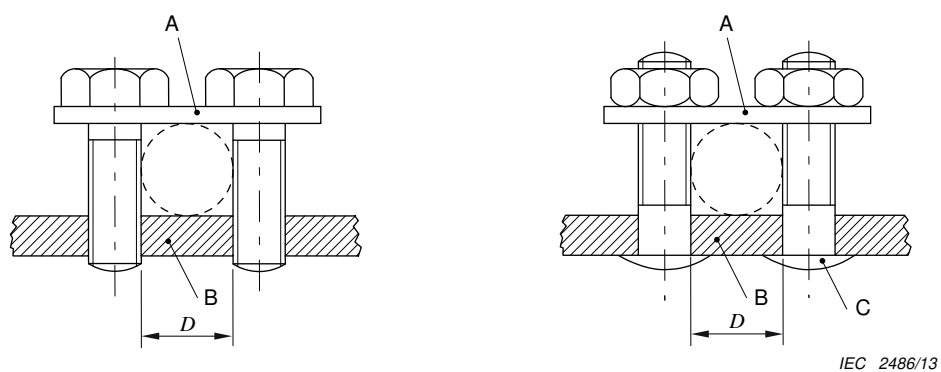
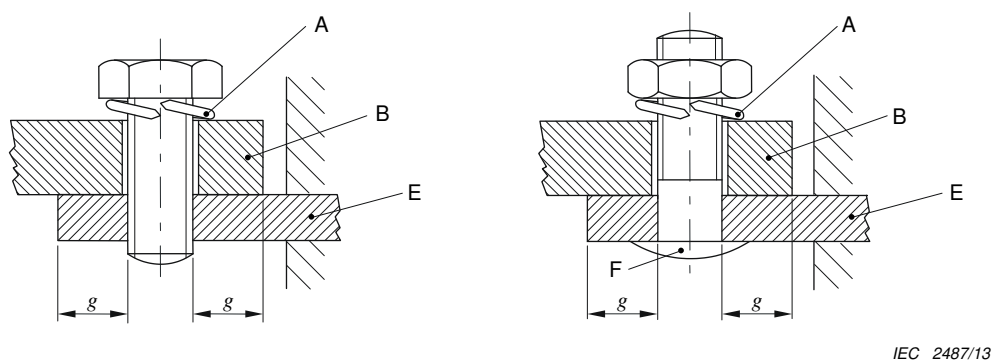


Figure 12 – Mantle terminals



- A saddle
- B fixed part
- C stud
- D conductor space

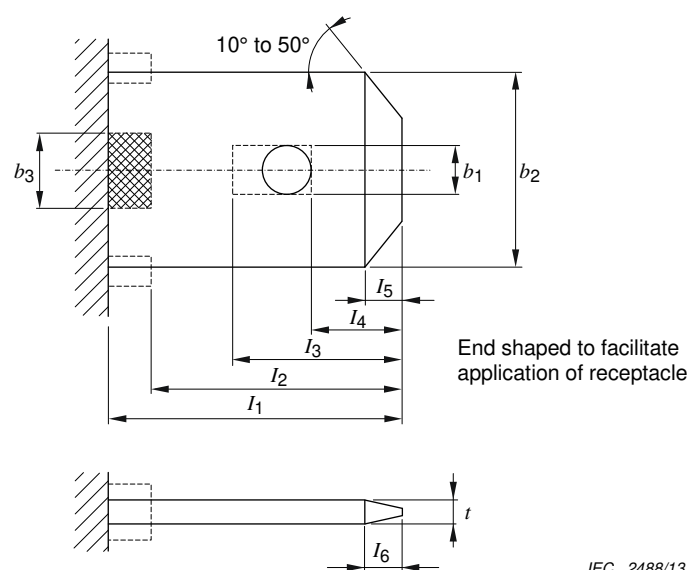
a) Saddle terminals



- A locking means
- B cable lug or bar
- E fixed part
- F stud

b) Lug terminals

Figure 13 – Saddle and lug terminals



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Dimensions in millimetres

Dimension for Figures 14 and 15 ^a	Connector size			
	2,8	4,8	6,3	9,5
L_1 (min.) ^b	7,7	6,9	8,6	14,0
L_2 (min.) ^b	7,0	6,2	7,9	12,0
L_3 (max.) ^c	3,0	5,2	6,7	8,2
L_4	$1,0 \pm 0,2$	$2,5 \pm 0,25$	$3,2 \pm 0,3$	$4,2 \pm 0,3$
L_5 (max.)	0,7	1,2	1,3	1,7
L_6 (max.)	0,7	1,2	1,3	1,7
b_1 (hole) ^a	$1,2^{+0,1}_0$	$1,4^{+0,2}_0$	$1,6^{+2,0}_0$ ^d	$2,1^{+2,0}_0$ ^d
b_1 (slot) ^a	$1,2^{+0,1}_0$	$1,4^{+0,2}_0$	$1,6^{+0,1}_0$	$2,1^{+2,0}_0$
b_2	$2,8 \pm 0,1$	$4,75 \pm 0,2$	$6,3^{+0,15}_{-0,1}$	$9,5^{+0,15}_{-0,1}$
b_3 (min.) ^e	2,0	2,0	2,5	2,5
t ^f	$0,5 \pm 0,025$	$0,8 \pm 0,03$	$0,8 \pm 0,03$	$1,2 \pm 0,03$
p (max.) ^g	0,8	1,2	1,2	1,7
k	–	$0,7^{0}_{-0,1}$	$1,0^{0}_{-0,1}$	$1,5^{0}_{-0,1}$
x	–	$1,0 \pm 0,2$	$1,0 \pm 0,2$	$1,4 \pm 0,2$

NOTE The sketches are not intended to govern design except as regards the dimensions shown.

^a Tabs may have an optional detent for latching. Round dimple detents, rectangular dimple detents and hold detents shall be located in the area bounded by dimensions b_1 , L_3 and L_4 along the centre line of the tab. Tabs may be manufactured from more than one layer of materials, provided that the resulting tab complies with this standard.

Details for tabs having corrugations or depressions are under consideration.

^b In order to provide sufficient clearance for receptacles intended to be provided with a sleeve, it may be necessary to increase this dimension by 0,5 mm to ensure that the means of location operates correctly.

^c The length of the slot (L_3 – L_4) must be at least equal to its width (b_1).

^d These tolerances are chosen so as to allow the tabs to be used as a part of a terminal with screw clamping.

^e Over the double-hatched area, the thickness shall not exceed the upper limit of the material thickness specified.

^f With the exception of the dimple or hole and the area indicated by dimension “ b ”, the thickness “ t ” shall be maintained over the whole connecting area. Compliance shall be determined by measurement over any section ($3,2 \pm 0,2$) mm², in a circular area. In addition, the overall flatness shall have a tolerance of 0,03 mm.

^g This dimension applies only to the raised side of the tab; on the reverse side, the flatness tolerance extends across the full width of the tab.

Figure 14 – Tabs

For dimensions, see Figure 14

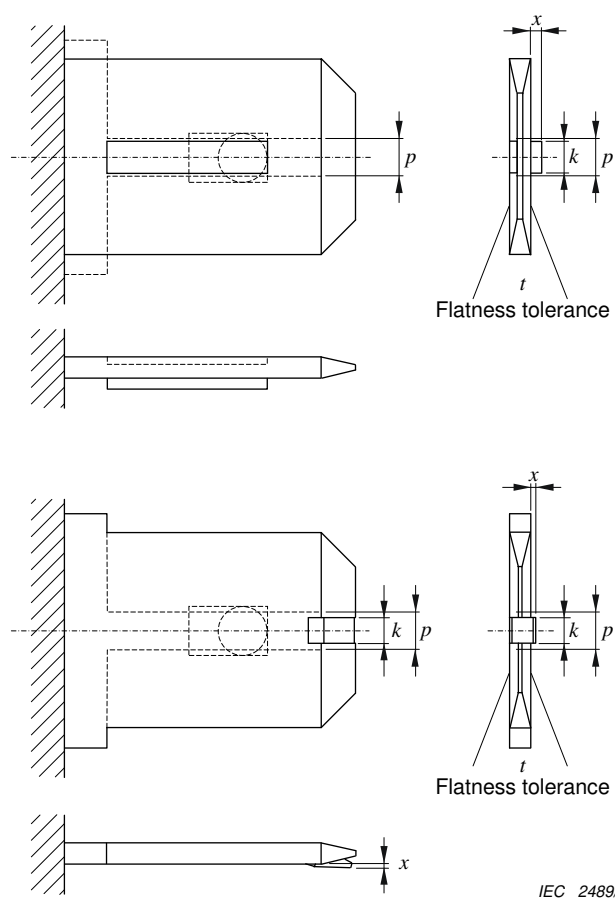
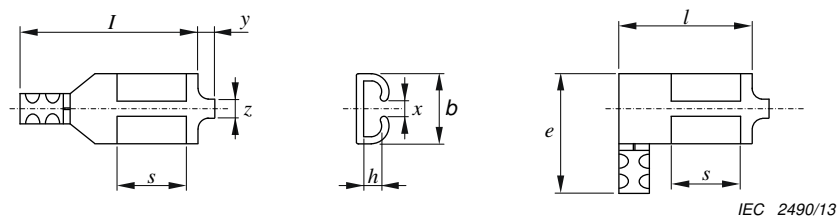


Figure 15 – Tabs for non-reversible connectors



Dimensions in millimetres

Dimension	Connector size			
	2,8	4,8	6,3	9,5
<i>b</i> (max.)	4	6	8	12,5
<i>e</i> (max.)	12	12	15	20
<i>h</i> (max.) ^a	1	2	2,5	3,2
<i>l</i> (max.)	18	18	22	27
<i>s</i> (min.)	4,5	5	6	10
<i>x</i> (min.) ^b	-	0,9	1,2	1,7
<i>y</i> (max.)	0,5	0,5	0,5	1,0
<i>z</i> (max.)	1,5	1,5	2,0	2,0
<p>The dimensions shown apply to the crimped condition.</p> <p>Dimensions for receptacles provided with a sleeve and for receptacles with a pre-insulated barrel are under consideration.</p> <p>The sketches are not intended to govern design except as regards the dimensions shown.</p>				
^a Maximum offset dimension from the centre line of the tab blade.				
^b Applies only to receptacles for non-reversible connectors.				

Figure 16 – Receptacles

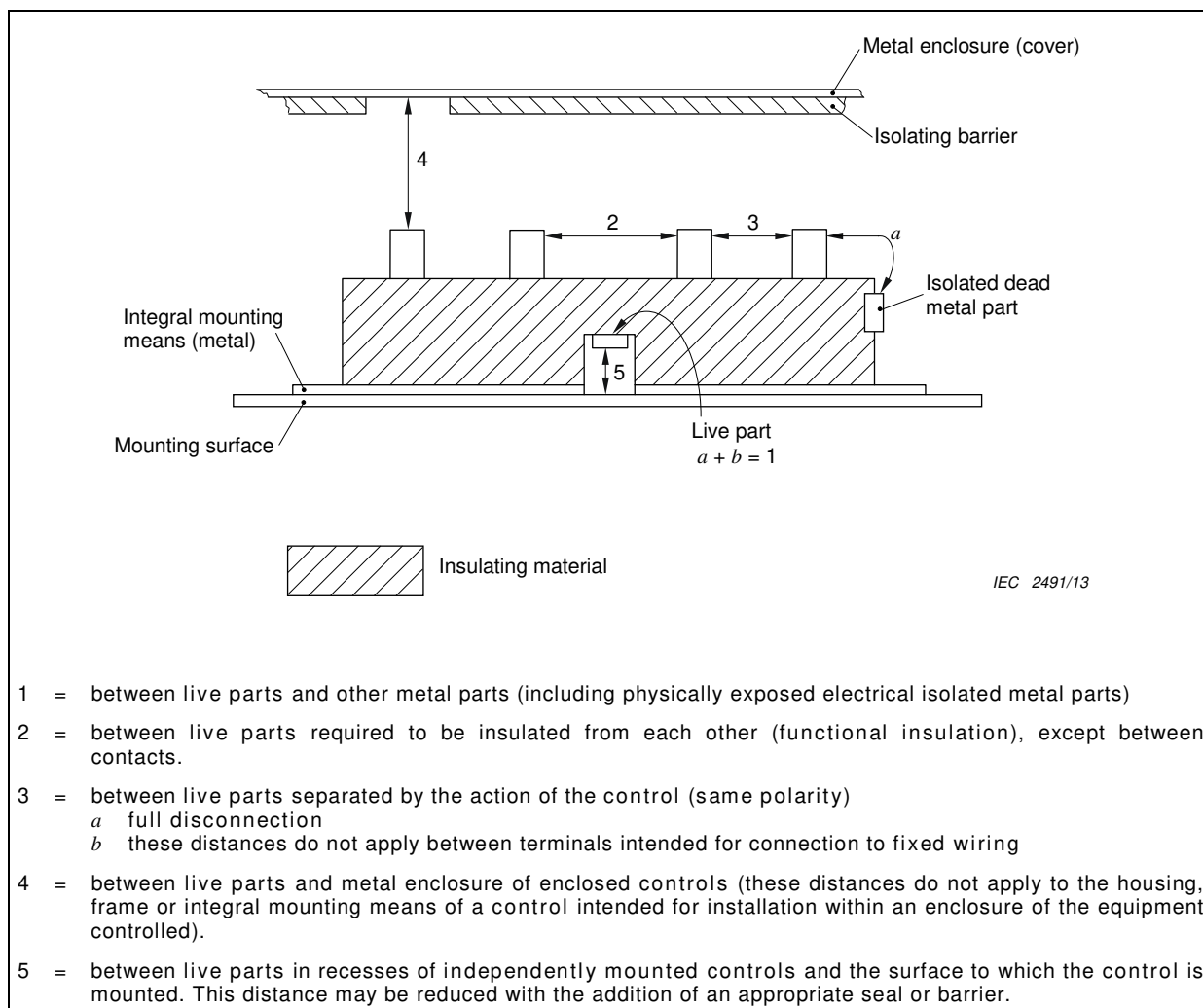
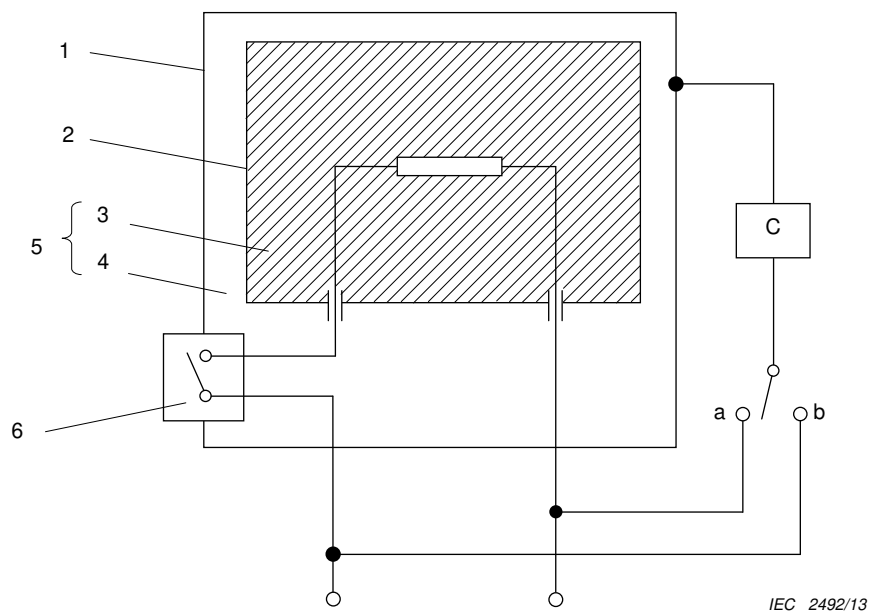


Figure 17 – Measurement of creepage distance and clearance

Figures 18 to 24 Void



Key

- C circuit of Figure E.1
- 1 accessible part
- 2 inaccessible metal part
- 3 basic insulation
- 4 supplementary insulation
- 5 double insulation
- 6 reinforced insulation

Figure 25 – Diagram for leakage current measurement at operating temperature for single-phase connection of class II controls