

()
INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC)

**ГОСТ
IEC 60999-2-
2023**

2

35 300 2

[IEC 60999-2:2003, Connecting devices — Electrical copper conductors — Safety requirements for screw-type and screwless-type clamping units — Part 2: Particular requirements for clamping units for conductors above 35 mm² up to 300 mm² (included), IDT]

2023

IEC 60999-2—2023

1.0 «

1.2 «

»

1 « (« »)

5

2

3 (-

31 2023 . 162-)

(3166) 004—97	(3166) 004—97	
	BY KG RU UZ	«

4 2023 . 568- IEC 60999-2—2023 20

1 2024 .

5 IEC 60999-2:2003 «

2.

35 300 ² ()» [«Connecting devices — Electrical copper conductors — Safety requirements for screw-type and screwless-type clamping units — Part 2: Particular requirements for clamping units for conductors above 35 mm² up to 300 mm² (included)», IDT].

IEC 60999-2 17 «

» (IEC). 17 «

1.5 (3.6).

6 31602.2—2012 (IEC 60999-2:1995)

() -

, , -

, . -

, « »

© IEC, 2003
», 2023

© . «



IEC 60999-2—2023

1	.....	1
2	.....	1
3	.....	2
4	.....	2
5	.....	2
6	.....	2
7	.....	2
8	.....	3
9	.....	4
()	² AWG/kcmil.....	9
( )	.....	10
( )	.....	12
( )	.....	13
	.....	14

IEC 60999-2—2023

				IEC 60999-1				-
					35	300	²	-
				IEC 60999-1				-
	35	²						
					35	300	²	

2

35 300 2

Connecting devices. Safety requirements for screw-type and screwless-type clamping units. Part 2. Particular requirements for clamping units for conductors above 35 mm² up to 300 mm² (included)

— 2024—06—01

1

()
 / AWG/kcmil 1000 1500
 35 300 2 IEC 60228),
 1000
 IEC 60999-1 (3.10.2).

2

()]:
 IEC 60228:1978¹⁾ Conductors of insulated cables — Amendment 1 (1993) [
 1 (1993)]
 IEC 60228 :1982¹⁾ Conductors of insulated cables — Guide to the dimensional limits of circular
 conductors ()
 IEC 60999-1:1999, Connecting devices — Electrical copper conductors. Safety requirements for screw-
 type and screwless-type clamping units — Part 1: General requirements and particular requirements for
 clamping units for conductors from 0,2 mm² up to 35 mm² (included) [1.
 0,2 35 2 (')]

1) IEC 60228:2004.

IEC 60999-2—2023

3

3.10.2 IEC 60999-1 3 IEC 60999-1
3.11 (), :
IEC 60999-1 (3.11).

4

IEC 60999-1 (4).

5

IEC 60999-1 (5).

6

: 50, 70, 95, 120, 150, 185, 240, 300 ².
— (, [AWG]).

7

7.1
—
7.2 (, 35, 50 70 ²), 70 ²
7.3 1.

1 —

	AWG/kcmil				
		³⁾ ,			
50	9,1	11,0	0	9,64	12,08
70	11,0	13,1	00	11,17	13,54
95	12,9	15,1	000	12,54	15,33
—	—	—	0000	14,08	17,22
120	14,5	17,0	250	15,34	19,01
150	16,2	19,0	300	16,80	20,48
185	18,0	21,0	350	18,16	22,05
—	—	—	400	19,42	24,05
240	20,6	24,0	500	21,68	26,57
300	23,1	27,0	600	23,82	30,03

) 5 IEC 60228

IEC 60228 ¹⁾ (1 3), AWG — ASTM 172-71 [1], ICEAS-19-81 [2], ICEA S-66-524 [3]
ICEA S-66-516 [4].

7.4

(« » «f»),

9.1—9.6.

7.5

9.3.

8

IEC 60999-1 (8)
8.1.1 IEC 60999-1

8.1.1

58 %
50 %

¹⁾ IEC 60228:2004.

IEC 60999-2—2023

8.1.2
8.4

9

9.1

9.2

1,

9.3

7.5

9.4

8.10 IEC 60999-1 (

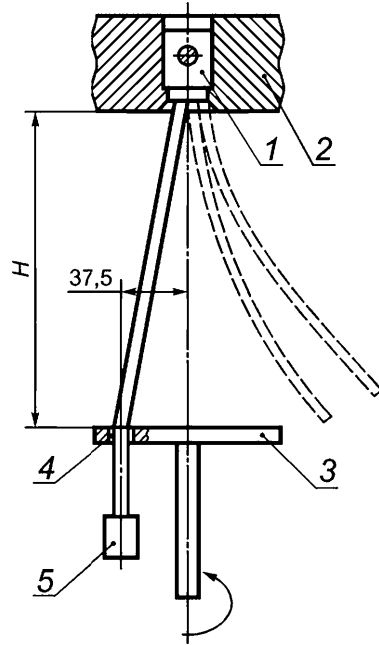
9.6.

)
)
)
d)
)

1.

75

2.



1 — ; 2 — ; 3 — ; 4 — ; 5 —
1 —

2 —

2	AWG/kcmil	3) \		, N	
		\	,		
50	0	15,9	343	9,5	236
70	00	19,1	368	10,4	285
95	000	19,1	368	14,0	351
—	0000	19,1	368	14,0	427
120	250	22,2	406	14,0	427
150	300	22,2	406	15,0	427
185	350	25,4	432	16,8	503
—	400	25,4	432	16,8	503
240	500	28,6	464	20,0	578
300	600	28,6	464	22,7	578
)		± 15 ,		± 2 .	

)

9.6.

(. 2).

IEC 60999-2—2023

75
(10 ± 2) ⁻¹.

±15 2.

15 2.

9.5 (9.5) 9.4 1

9.6 7.4. 3

() 3. III IV 3

IV, III, III IV ISO¹⁾

3—

		)	1 >	IV)
2,5	2,8	0,2	0,4	0,4
3,0	. 2,8 3,0 .	0,25	0,5	0,5
—	. 3,0 3,2 .	0,3	0,6	0,6
3,5	. 3,2 3,6 .	0,4	0,8	0,8
4	. 3,6 4,1 .	0,7	1,2	1,2
4,5	. 4,1 4,7 .	0,8	1,8	1,8
5	. 4,7 5,3 .	0,8	2,0	2,0

¹⁾ 8724—2002 (261—98) « - ».

		1 >	III ^b >	IV)
6	. 5,3 6,0 .	1,2	2,5	3,0
8	. 6,0 8,0 .	2,5	3,5	6,0
10	. 8,0 10,0 .	—	4,0	10,0
12	. 10,0 12,0 .	—	—	14,0
14	. 12,0 15,0 .	—	—	19,0
16	. 15,0 20,0 .	—	—	25,0
20	. 20,0 24,0 .	—	—	36,0
24	. 24	—	—	50,0
> , I, > , III,) , IV,				

9.7

9.6.

9.8

10

5

5

1

15

9.9

9.10

9.8

(20 ± 2) °C.

192

()

² AWG/kcmil

.1 —

² AWG/kcmil

, ²	AWG/kcmil	, ²
—	1	42,4
50	0	53,5
70	00	67,4
95	000	85,0
—	0000	107,2
120	250	127,0
150	300	152,0
185	350	177,0
—	400	203,0
240	500	253,0
300	600	304,0

IEC 60999-2—2023

()

.1 —

-			(.1)					,
	, 12	,						
			-	,	,	-	,	
50	9,1		9	10,2	9,2	9	10,0	0 -0,07
		11,0		12,3	11,0	10	12,0	0 -0,08
70	11,0			12,3	11,0		12,0	
		13,1	11	14,2	13,1	11	14,0	
95	12,9			14,2	13,1		14,0	
		15,1	12	16,2	15,1	12	16,0	
120	14,5			16,2	15,1		16,0	
		17,0	13	18,2	17,0	13	18,0	
150	16,2			18,2	17,0		18,0	
		19,0	14	20,2	19,0	14	20,0	
185	18,0			20,2	19,0		20,0	
		21,0	15	22,2	21,0	15	22,0	0 -0,09
240	20,6			22,2	21,0		22,0	
		24,0	16	26,5	24,0	16	26,0	
300	23,1			26,5	24,0		26,0	
		27,0					29,0	

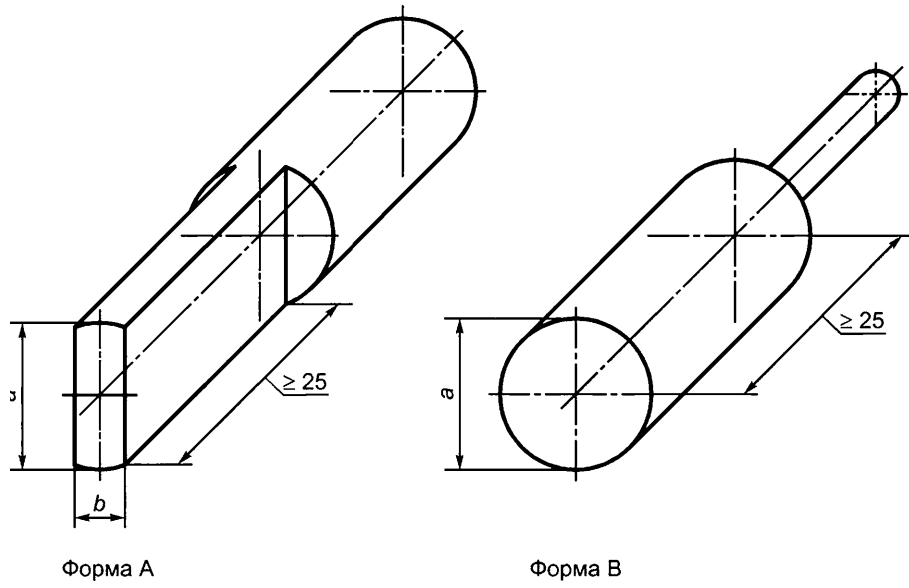
)

5

IEC 60228 1).

1)

IEC 60228:2004.



.1 —

IEC 60999-2—2023

()

.1 —

50	19	0,41
70	19	0,51
95	19	0,51
120	37	0,51
150	37	0,51
185	37	0,51
240	61	0,51
300	61	0,51

.2 —

AWG/kcmil

0	19	0,51
00	19	0,51
000	19	0,51
0000	19	0,51
250	37	0,51
300	37	0,51
350	37	0,51
400	37	0,51
500	37	0,51
600	61	0,51

()

. 1

IEC 60228:1978 ¹⁾	MOD	22483—2021 (IEC 60228:2004) « - »
IEC 60228 :1982 ¹⁾	—	—
IEC 60999-1:1999	MOD	31602.1—2012 (IEC 60999-1:1999) « - 1. - - 0,2 35 ²⁾ »
- MOD —		

¹⁾

IEC 60228:2004.

IEC 60999-2—2023

- [1] ASTM 172-71 Standard specification for rope — Lay-stranded copper conductors having bunch-stranded members, for electrical energy ()
- [2] ICEA S-19-81/
NEMA WC 3-1980 Rubber-insulated wire and cable for the transmission and distribution of electrical energy ()
- [3] ICEA S-66-524/
NEMA WC 7-1982 Cross-linked thermosetting polyethylene insulated wire and cable for the transmission and distribution of electrical energy ()
- [4] ICEA S-68-516/
NEMA WC 8-1976 Ethylene-propylene-rubber-insulated wire and cable for the transmission and distribution of electrical energy ()

621.315.682:006.354

29.120.20

IDT

21.07.2023.

03.08.2023.

60x847s.

. . . 2,32. . - . . 1,42.

« . . . »

, 117418 ,
www.gostinfo.ru info@gostinfo.ru

- , . 31, . 2.