



**60800—**  
**2012**

**300/500**

**IEC 60800:2009**  
**Heating cables with a rated voltage of 300/500 V**  
**for comfort heating and prevention of ice formation**  
**(IDT)**

60800-2012

27 2002 . N9 184 - « ».

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 » ( « »)

2 46 « »

3 30 2012 . No 258-

4 60800:2009 « -  
 300/500  
 » (IEC 60800:2009 «Heating cables with a rated voltage of 300/500 V for comfort heating and prevention of ice formation»)

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 (gosi.ru)  
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7.2	.....	5
7.3	.....	6
7.4	.....	6
7.5	.....	6
7.6	.....	7
7.7	.....	7
8	.....	7
8.1	.....	7
8.2	.....	7
8.2.1	.....	7
8.2.2	.....	8
8.2.3	.....	9
8.2.4	.....	9
8.2.5	.....	9
8.2.6	.....	9
8.2.7	.....	10
8.2.8	.....	11
8.2.9	.....	11
8.2.10	.....	12
8.2.11	.....	12
8.2.12	.....	13
8.2.13	..... ( ) .....	13
8.2.14	.....	13
8.2.15	.....	14
8.2.16	.....	14
8.2.17	..... / .....	14
8.2.18	.....	15
8.2.19	.....	15
8.2.20	.....	15
8.2.21	.....	16
8.2.22	.....	16
8.2.23	.....	16
8.3	..... - .....	16
8.3.1	.....	16

60800-2012

8.3.2	.....	16
8.3.3	.....	16
8.3.4	.....	16
8.3.5	.....	16
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60800-2012

300/500

bleating cables with a rated voltage of 300/500 V for comfort heating and prevention of ice formation

- 2013-07-01

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60050-461

461.

(IEC 60050-461. International Electrotechnical Vocabulary - Part 461: Electric cables)

60228

(IEC 60228. Conductors of insulated cables)

cables)

80332-1-1

1-1.

(IEC 60332-1-1, Tests on electric and

optical fibre cables under fire conditions - Part 1-1: Test for vertical flame propagation for a single insulated wire or cable - Apparatus)

60800-2012

- 60332-1-2
- 1-2. (IEC 60332-1-2, Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW premixed flame)
- 60811-1-1
- 1 -1. (IEC 60811 -1 -1. Common test methods for insulating and sheathing materials of electric and optical cables - Part 1-1: Methods for general application - Measurement of thickness and overall dimensions - Tests for determining the mechanical properties)
- 60811-1\*2: 1985
- 1-2. (IEC 60811-1-2:1985. Common test methods for insulating and sheathing materials of electric and optical cables - Part 1-2: Methods for general application - Thermal ageing methods)
- 60811-1-3
- 1-3. (IEC 60811-1-3. Common test methods for insulating and sheathing materials of electric and optical cables - Part 1 -3: General application - Methods for determining the density - Water absorption tests - Shrinkage test)
- 60811-1-4
- 1-4. (IEC 60811-1-4. Common test methods for insulating and sheathing materials of electric and optical cables - Part 1-4: Methods for general application - Test at low temperature)
- 60811-2-1
- 2-1. (IEC 60811-2-1. Common test methods for insulating and sheathing materials of electric and optical cables - Part 2-1: Methods specific to elastomeric compounds - Ozone resistance, hot set and mineral oil immersion tests)
- 60811-3-1
- 3-1. (IEC 60811-3-1, Common test methods for insulating and sheathing materials of electric and optical cables - Part 3-1: Methods specific to PVC compounds - Pressure test at high temperature - Tests for resistance to cracking)
- 62395-1: 2006
- 1. (IEC 62395-1:2006, Electrical resistance trace heating systems for industrial and commercial applications - Part 1: General and testing requirements)
- 4892-3: 2006
- 3. (ISO 4692-3:2006, Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps)

3

60050-461,

3.1 (armouring):

3.2 (cold 1 4):

3.3 (connection 8 1 ): &

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3.4	(earthing ):	,	
3.5	(electrical conductive screen):	,	-
	,	,	-
	,		
3.6	(end 1 1 ):	,	-
	,	,	
3.7	,	(factory assembled unit or set):	-
3.8	,	(field assembled unit or set):	-
	,	,	-
3.9	(heating cable):	,	-
	,	,	
3.10	(heating cable set):		-
3.11	(heating conductor):	,	-
3.12	(insulation):	,	-
3.13	(integral components):	,	-
	,	,	-
	,	,	-
3.14	(linear power density):		-
3.15	(operating conductor temperature):		-
3.16	(operating surface temperature):		-
3.17	(operating voltage):	,	-
3.18	(rated temperature):	,	-
	,		
3.19	(rated voltage):		
	,		
3.20		(rated resistance of individual	
conductor(s)):		1	
3.21	-	2	-
	(routine test):	,	
	,	,	
3.22	(sample test):	,	-
	,	,	
3.23	обono4Ka(sheath):		-
	( )		
	( , . .)		
3.24	(type test):	,	-

60800-2012

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2:

8.2.7,8.2.8 8.2.14.

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1:

2 -

2:

5

1-

2 -

20\*

• 550

• 275



8.2.21.

3 -

4-

6

a)

b)

c)

d)

e)

0

)

h)

i)

j)

7

7.1

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8

7.2



7.6

60811 -1 -1

7.7

8.3.5.

8.2.2.

IPX7 [3].

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8.1

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ut 20' 25\* .

49 61

8.2.3.

8.2.4.

8.2

8.2.1

( )

1 .

100  
(20 ± 1) °

60800-2012

8.2.2

8.2.2.1

5  
 (80±5) 16 (20±5)\* 8 . (20 ± 5) ° 8 . (80 ± 5) “ 16 , (20 ± 5) \* 56  
 8 +16 +8 +16 +8 . 8 .

60811-1-2.

8.2.2.2

но 8.2.2.3.

8.2.2.2 (20±5)° .

5

2000 8 5 .  
 2-10 .

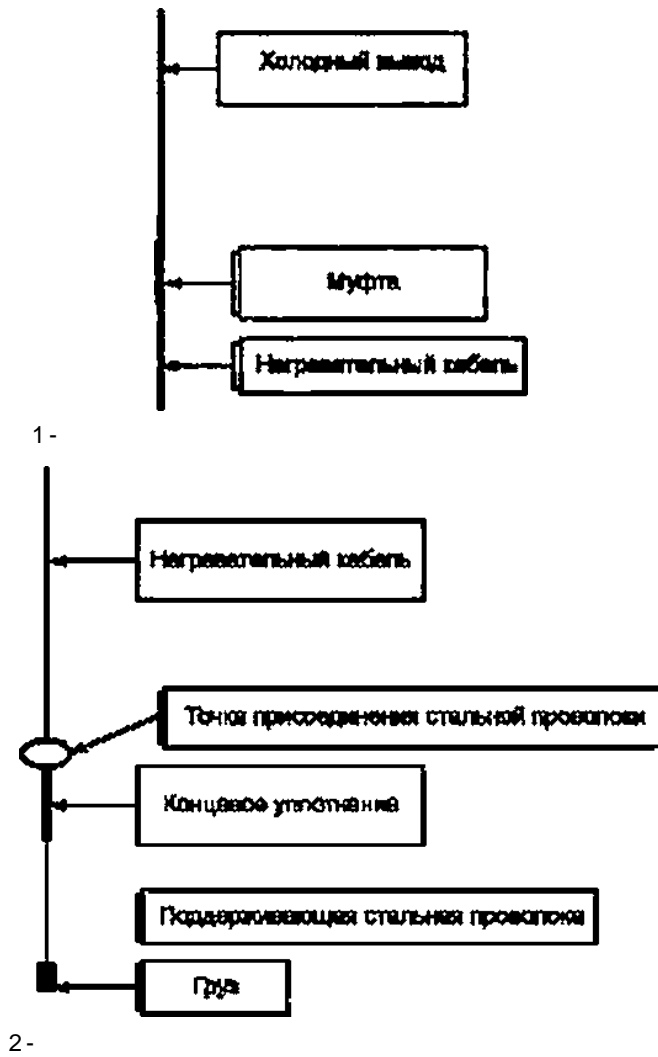
8.2.2.3

8.2.2.1.

( ),  
 6.2.2.2.



60800-2012



8.2.7  
6.2.7.1

1

8.2.7.3.

.2.7.2.

2,

8.2.7.2

1:

200

6

(20 ± 5) \*

600

100 \* 100

30

1500

30

( )

( )

8.2.7.3

2:

(20 ± 5)

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30

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200

100 \* 100

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6

8.2.8

5\*

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60811-1-4.

0.5

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8.2.2.2.

( )

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(3 3).

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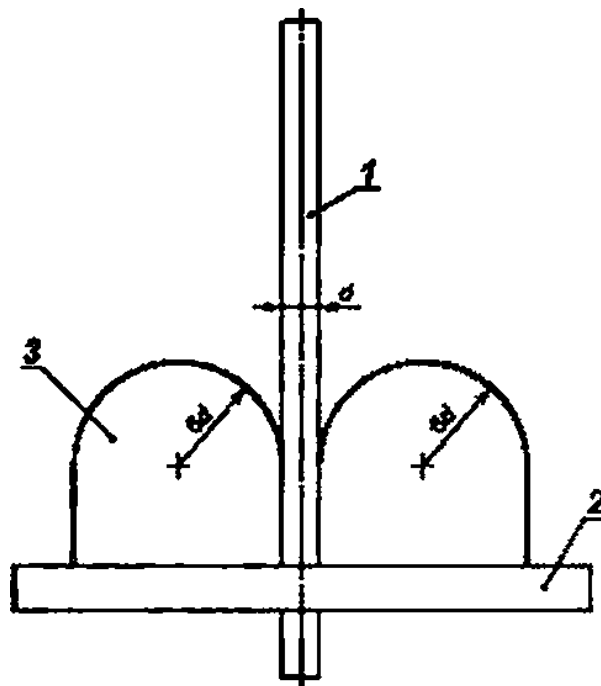
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60800-2012

10\*  
90  
4  
180  
5

8.2.2.2

5



f- ;2- ;3- ;d-  
- 3-

8.2.10

60811-1 -2, 8.1.3.1.

60811-1-1.

14

135\*

12.5

150 %.

$\pm 25\%$

$\pm 25\%$

8.2.11

60811-1-2 ( 8.1.3.1).

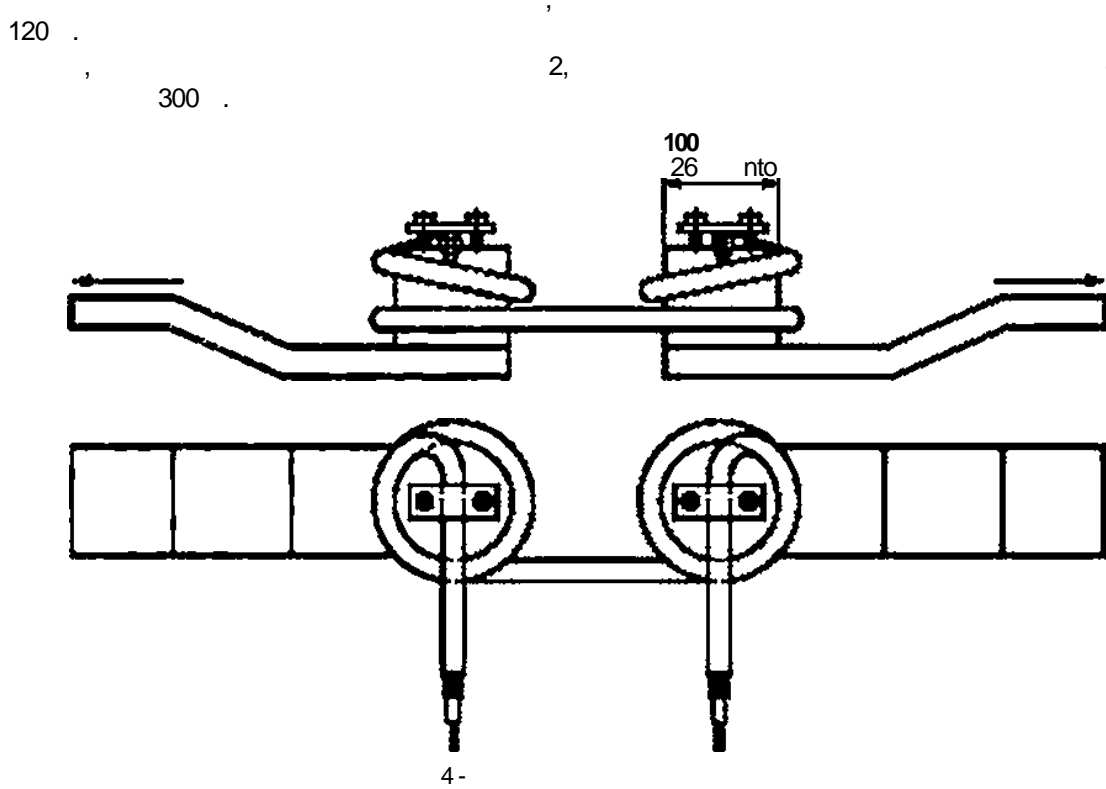
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	60		110*	10	-
				10	-
100 %.				± 25%	-
± 25%					-
	14		135°	35	-
				10	-
100 %.				± 25%	-
± 25%					-
8.2.12			14	110*	-
				± 25%	-
± 25%					-
60811-1-1.					-
8.2.13			( )		-
				4892-3.	-
	1 (UVA-340).		8	60'	-
2000 .	4		50 *		-
	2000				-
		*			-
					-
			(5).		-
8.2.14				( )	-
					-
	4.				-
4.			150		-
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8.2.15

15

8.2.2.2.

1

8.2.16

150°

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125\*

8

8.2.17

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200

130®

1

60811-1-3.

4%.

b)

60811-1-3.	130*	60811-1-3.	1	4 %.	-
8.2.18					
200* .		60811-2-1		175%	-
8.2.19	15 %.				
60811-1-1.				6	
• =	120	120*			
• 48		50'			
• pH	>12	( ) <sub>2</sub>		( ) <sub>2</sub>	-
1-				60811-1-2.	
2 - 50	O <sub>3</sub>	2 - 3	{ } <sub>2</sub>	1	
pH-				pH	-
				pH	-
60811-1-1.					
25%	25%				
8.2.20				0.25 - 0.50	-
				6	-
•					
pH	>12			3	( ) <sup>2</sup> .
1-					
2-50	O <sub>3</sub>	2 - 3	( ) <sub>2</sub>	1	
pH-	CaCO <sub>3</sub>			pH	-
				pH	-
				50 *	-
	60811-1-2.	8			-
( )	/			( )	-

60800-2012

по 8.2.2.3.  
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8.2.21

8.2.22

8.2.23

8.3

8.3.1

8.3.2

2.5

2.5

8.3.3

8.3.4

15%.

8.3.5

20%.

60811-3-1

90°

50%

300

5

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(20 ± 1)  
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60811-1-1.

60811-1-1.

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8.3.6

60811-2\*1

15%.

200 \* .  
175%

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60228	MOD	22483-77 «	-
60332-1-1	IDT	60332-1-1-2007 «	-
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60332-1-2	IDT	60332-1-2-2007 «	-
		1-2.	-
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60811-1-1	IDT	60811-1-1-98 «	-
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60811-1-2	IDT	60811-1-2-2006 «	-
		1-2.	-
		»	
60811-1-3	IDT	60811-1-3-2007 «	-
		1-3.	-
		*	
60811-1-4	IDT	60811-1-4-2008 «	-
		1-4.	-
		»	
60811-2-1	IDT	60811-2-1-2006 «	-
		2-1.	-
		»	
60811-3-1	IDT	60611-3-1-94 «	-
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4892-3	-		
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- [1] 62395 ,  
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- [2] 60364  
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- [3] 60529 , ( IP)
- [4] 62395-1 . 1.
- [5] 4892-2:2006 .  
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