



Catalogue

Cables, wires, aluminium wire rod,
aluminium alloys wire rod

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About company

Zvetlit is a modern and innovative Russian cable and metallurgy factory. The plant is located in Russia, 660 km southeast from Moscow. It has a successful experience in the production of quality products. Thanks to convenient geographical position the products of the factory can be delivered to any place in Russia, CIS and foreign countries. Our technical and managerial resources are constantly keeping up with technological progress. We guarantee a lean and punctual production with a special attention to product innovations.

All our products are certified with the requirements of Technical regulations of the Custom Union or Russian State Standards (GOSTs). The company has Certificates of conformity of the Quality Management System to the requirements of State Standards (GOST) ISO 9001-2011.

Zvetlit was solemnly presented in August, 2006. The president of Russian Federation Vladimir Putin opened the enterprise.

Presently Zvetlit is one of few companies of cable industry in our country where the full circle of production is used: from producing aluminum wire rod to manufacturing cable and wire products. The cable production of the factory is used practically in every branch of Russian industry. The products of Zvetlit are used in the construction of the stadium «Mordovia Arena» in Saransk, which will host the 2018 FIFA World Cup.

Strategic capital of our company is the confidence of our partners. We value the trust of our regular customers and invite new firm for cooperation. We ensure high attention to your needs and the full specter of services: packaging, storage, loading of the product, immediate reaction to your comments and desires.

We hope for productive and long-last cooperation with Your company.

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<i>Type of cable (IEC, VDE, PN, HD, BS)</i>	<i>Russian tipe of cable</i>	<i>Page</i>
AsXsn, ABC	SIP 4	60
AXKA	SIP 2	54
H(AI)07VH2-U	APV	62
H(AI)07VH2-U	APV-As	66
H(AI)07VH2-U Flame Retardant Low Smoke	APVng(A)-LS-As	70
H03VV-F, OMY	PVS	72
H05RR-F	KG	40
H05V-K, LgY	PV3, PV4, PuGV	62,64
H05V-R, LY	PV3, PuGV	62,64
H05V-U, DY	PV1, PuV	62,64
H05VV-F	PVS	72
H07RN-F	KG-HL	40
H07V2-R Flame Retardant Low Smoke	PuGVng(A)-LS,	68
H07V3-K	PV3, PV4, PuGV	62,64
H07V-K, LgY	PV3, PV4, PuGV	62,64
H07V-R, LY	PV2, PV3, PuGV	62,64
H07V-U, DY	PuV	64
H07VV2H2-K Flame Retardant Low Smoke	PuGVVng(A)-LS	68
H07VVH2-K	PuGVV	64
H07VVH2-U	PuVV	64
H07VV-K	KuGVV	42
H07VV-U	KuVV	42
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NAYIFY Flame Retardant	AVVGng(A)-P	16
NAYIFY Flame Retardant	AVVGPng(A)-As	20
NAYIFY Flame Retardant Low Smoke	AVVG-Png(A)-LS	26
NAYIFY Flame Retardant Low Smoke	AVVGPng(A)-LS-As	30
NAYY	AVVG	8
NAYY	AVVG-As	12
NAYY Flame Retardant	AVVGng(A)	16
NAYY Flame Retardant	AVVGng(A)-As	20
NAYY Flame Retardant Low Smoke	AVVGng(A)-LS	26
NAYY Flame Retardant Low Smoke	AVVGng(A)-LS-As	30
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NHXH	KPPGng(A)-HF	52
NHXH	PPGng(A)-HF	38
NHXH FE 180	PPGng(A)-HF	38
NYFY Flame Retardant	VVGng(A)-P	16
NYIFY	VVG-P	8
NYIFY Flame Retardant Low Smoke	VVG-Png(A)-LS	26
NYM	NYM	6
NYM Flame Retardant Low Smoke	NYMнг(A)-LS	24

<i>Type of cable (IEC, VDE, PN, HD, BS)</i>	<i>Russian tipe of cable</i>	<i>Page</i>
NYN	KVVG	46
NYN	KVVGz	46
NYN Flame Retardant	VVGng(A)	16
NYN Flame Retardant Low Smoke	KVVGzng(A)-LS	48
NYN Flame Retardant Low Smoke	VVGng(A)-LS	26
OLFLEX Classic 110H, OLFLEX 120 H, OLFLEX 130 H, JZ-500 HMH, FLAME-JZ-H	KuGVVng-LS	44
PAS-W	SIP 3	58
TORSADE	SIP 4	60
YAKY	AVVG	8
YDY, CYKY	VVG, VVGng(A)	8,16
YKY, NYN	VVG	8
YnDY-LS	VVG-Png(A)-LS	26
YnDYp-LS	VVGng(A)-LS	26
YnKY, YnDY	VVGng(A)	16

NYM

The cables meet the requirements of national standard GOST IEC60227, Specs. 3521-026-46671337-2015

Analogues

According to purpose and application:
NYM - NYM, MMJ

Application

Cables are designed for power transmission and distribution in stationary installation rated for nominal voltage 300/500 V.

Construction

Conductor:

Insulation:

Stranding:

Filler material:

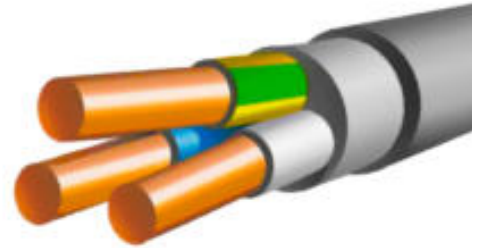
Outer sheath :

Coloring of insulated conductors

Number of cores	With protective earth core
2	-
3	Green-yellow, blue, brown
4	Green-yellow, brown, black, grey
5	Green-yellow, blue, brown, black, grey

Technical data

Operating voltage	300/500V
Operating temperature range	from -50 °C to +50 °C
Cable Installation and assembly without preheating	-15° C
Relative air humidity at the temperature up to + 35°C	98%
Maximum continuous permissible operating temperature of cores	+70 °C
Bending radius of cable while installation and assembly	not less than 7,5 outer cable diameters
Service life, not less	30 years
Guaranty service life from the date of commissioning	5 years
Cable storage conditions	outdoor areas – not more than 2 years under cover – not more than 5 years indoor areas – not more than 10 years



copper circular single-wire or multi-wires.
PVC plasticate.
insulated 2-, 3-, 4- , 5- conductors are stranded to form a core.
cable compound or uncured rubber.
PVC plasticate.

Without protective earth core

Blue, brown
Brown, black, grey
Blue, brown, black, grey
Blue, brown, black, grey

300/500V
from -50 °C to +50 °C
-15° C
98%
+70 °C
not less than 7,5 outer cable diameters
30 years
5 years
outdoor areas – not more than 2 years
under cover – not more than 5 years
indoor areas – not more than 10 years

<i>Number and nominal cross section, pcs x mm²</i>	<i>Number of wires in core, pcs</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
2x1,5	1	9,4	113,0
2x2,5	1	10,8	154,0
2x4	1	12,3	202,4
2x6	1	13,5	260,5
2x10	1	16,8	439,2
2x16	7	19,6	641,5
2x25		23,7	939,3
2x35		26,6	1235,3
3x1,5	1	9,9	130,5
3x2,5	1	11,4	181,0
3x4	1	13	242,5
3x6	1	14,7	330,0
3x10	1	17,7	535,0
3x16	7	21	815,2
3x25		25,6	1177,3
3x35		28,3	1546,5
4x1,5	1	10,7	156,2
4x2,5	1	12,3	219,2
4x4	1	14,6	309,5
4x6	1	16,1	431,4
4x10	1	19,5	662,5
4x16	7	23	1024,0
4x25		28,3	1517,3
4x35		31,3	1960,5
5x1,5	1	11,5	188,0
5x2,5	1	13,3	265,5
5x4	1	16	397,2
5x6	1	17,5	520,2
5x10	1	21,3	805,3
5x16	7	25,6	1274,0
5x25		31,1	1875,0
5x35		34,3	2448,5

VVG/VVG-P/AVVG/AVVG-P

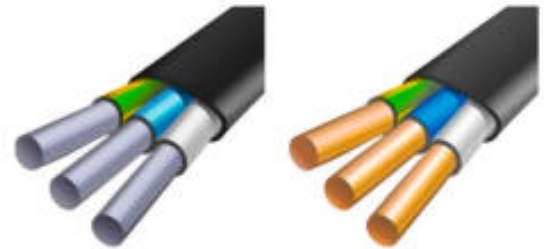
The cables meet the requirements of national standard GOST 31996, Specs. 16-705.499-2010

Analogues

According to purpose and application:
 VVG - NYY, NYM, YKY; VVG-P - NYIFY;
 AVVG – NAYY, YAKY; AVVG-P - NAYIFY.

Application

Cables are designed for power transmission and distribution in stationary equipment rated for nominal alternating voltage 0,66 kV and 1kV, frequency 50Hz.



Construction

Form of cable:

Conductor:

Insulation:

Stranding:

Inner sheath :

Outer sheath :

Technical data

Operating voltage
 Operating temperature range
 Relative air humidity at the temperature up to + 35°C
 Minimum temperature of cable Installation and assembly without preheating
 Maximum continuous permissible operating temperature of cores
 Maximum possible conductors heating temperature in reset condition
 Maximum possible conductors heating temperature in short circuit
 Maximum possible conductors heating temperature in short circuit according to non-combustion condition.
 Bending radius of cable while installation and assembly
 - single-core:
 - multi-cores:
 Service life, not less
 Guaranty service life from the date of commissioning

round – VVG, AVVG; flat - VVG-P, AVVG-P.
 single- or multi-wires;
 copper - VVG, VVG-P;
 aluminum - AVVG, AVVG-P.

PVC plasticate.

insulated 2-, 3-, 4-, 5- conductors are stranded to form a core.

over stranded insulated round-shaped conductors inner sheath of PVC plasticate is laid, which fills the interstices between the conductors. There is the layer of talc between insulation and inner sheath for providing the flexibility of conductors during the exploitation and for dividing the cables.

PVC plasticate.

0,66; 1 kV

from -50 °C to +50 °C

98%

-15°C

+70°C

+90°C

160°C

350°C

not less than 10 outer cable diameters

not less than 7,5 outer cable diameters

30 years

5 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
VVG					
0,66kV			1kV		
1x1,5	5,2	43	1x1,5	5,5	48
1x2,5	5,8	55	1x2,5	6,2	59
1x4	6,2	74	1x4	7,0	82
1x6	6,8	95	1x6	7,2	104
1x10	7,9	141	1x10	8,0	144
1x16	9,2	215	1x16	9,3	219
1x25	10,7	308	1x25	10,7	313
1x35	11,7	403	1x35	11,8	408
1x50	13,2	533	1x50	13,5	539
2x1,5	8,3	102	1x70	15,5	728
2x2,5	9,0	131	1x95	17,5	1005
2x4	10,5	181	1x120	19,0	1215
2x6	11,6	234	1x150	21,0	1497
2x10	13,8	353	2x1,5	8,9	117
2x16	15,9	537	2x2,5	9,6	147
2x25	20,8	748	2x4	11,5	210
2x35	22,9	984	2x6	12,5	265
3x1,5	8,8	120	2x10	14,0	365
3x2,5	9,6	157	2x16	16,5	548
3x4	10,9	222	2x25	21,2	761
3x6	11,9	293	2x35	23,5	998
3x10	14,5	449	3x1,5	9,5	137
3x16	17,2	714	3x2,5	10,2	176
3x25	22,0	1013	3x4	12,1	255
3x35	24,2	1342	3x6	13,1	329
4x1,5	9,5	143	3x10	14,8	463
4x2,5	10,3	190	3x16	17,7	728
4x4	11,9	273	3x25	22,6	1029
4x6	13,1	363	3x35	24,7	1360
4x10	15,9	562	4x1,5	10,1	163
4x16	18,9	909	4x2,5	11,1	212
4x25	24,3	1314	4x4	13,1	312
4x35	26,7	1730	4x6	14,3	406
5x1,5	10,5	168	4x10	16,2	579
5x2,5	11,5	226	4x16	19,5	927
5x4	13,0	328	4x25	24,6	1335
5x6	14,5	440	4x35	27,0	1754
5x10	17,9	685	5x1,5	11,0	192
5x16	20,5	1114	5x2,5	12,9	253
5x25	26,5	1618	5x4	14,5	375
5x35	29,9	2136	5x6	15,9	491

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
VVG					
			5x10	17,8	705
			5x16	21,0	1137
			5x25	27,0	1645
			5x35	30,0	2166
AVVG					
1x2,5	5,8	40	1x2,5	6,2	45
1x4	6,2	50	1x4	7,0	58
1x6	6,8	59	1x6	7,2	68
1x10	7,9	82	1x10	8,0	85
1x16	9,2	116	1x16	9,3	120
1x25	10,7	158	1x25	10,7	163
1x35	11,7	194	1x35	11,8	200
1x50	13,2	250	1x50	13,5	255
2x2,5	9,0	101	1x70	15,5	321
2x4	10,5	134	1x95	17,9	435
2x6	11,6	163	1x120	19,5	508
2x10	13,8	236	1x150	21,5	620
2x16	15,9	338	2x2,5	10	118
2x25	20,8	446	2x4	12	162
2x35	22,9	563	2x6	13,0	194
3x2,5	9,6	113	2x10	14,5	248
3x4	10,9	151	2x16	16,5	350
3x6	11,9	186	2x25	21,6	458
3x10	14,5	273	2x35	23,9	577
3x16	17,2	415	3x2,5	10,2	132
3x25	22,0	560	3x4	12,1	184
3x35	24,2	711	3x6	13,1	222
4x2,5	10,3	132	3x10	14,8	287
4x4	11,9	178	3x16	17,7	430
4x6	13,1	221	3x25	22,6	575
4x10	15,9	328	3x35	25,0	730
4x16	18,9	510	4x2,5	11,2	154
4x25	24,3	708	4x4	13,3	217
4x35	26,7	890	4x6	14,6	263
5x2,5	11,5	153	4x10	16,6	344
5x4	13,0	210	4x16	19,0	528
5x6	14,5	261	4x25	25,0	730
5x10	17,9	392	4x35	28,0	912
5x16	20,5	615	5x2,5	12,9	180
5x25	26,5	861	5x4	15,0	256
5x35	29,9	1085	5x6	16,0	313

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
AVVG					
			5x10	18,5	412
			5x16	21,0	637
			5x25	28,0	887
			5x35	30,0	1115
VVG-P					
2x1,5	5,2x8,0	70	2x1,5	5,7x8,8	92
2x2,5	5,6x8,5	95	2x2,5	5,9x9,5	116
2x4	6,2x10	131	2x4	6,8x11,2	165
2x6	6,7x11,5	174	2x6	7,5x12,3	210
2x10	7,9x13,4	260	2x10	9,0x13,9	294
3x1,5	5,2x11,0	98	3x1,5	5,7x12,0	128
3x2,5	5,6x12,5	131	3x2,5	5,9x13,5	164
3x4	6,2x13,5	188	3x4	6,8x16,0	135
3x6	6,7x15,0	253	3x6	7,5x17,5	305
3x10	7,9x18,5	400	3x10	9,0x19,5	410
AVVG-P					
2x2,5	5,6x8,5	63	2x2,5	5,9x9,5	87
2x4	6,2x10	83	2x4	6,8x11,2	117
2x6	6,7x11,5	102	2x6	7,5x12,3	140
2x10	7,9x13,4	148	2x10	9,0x13,9	177
3x2,5	5,6x12,5	87	3x2,5	5,9x13,5	120
3x4	6,2x13,5	117	3x4	6,8x16,0	164
3x6	6,7x15,0	146	3x6	7,5x17,5	197
3x10	7,9x18,5	225	3x10	9,0x19,5	235

AVVG-As/AVVG-P-As

The cables meet the requirements of national standard GOST 22483-2012, Specs. 3500-011-46671337-2016

Analogues

According to purpose and application:
AVVG-As - NAYY

Application

Cables are designed for power transmission and distribution in stationary equipment rated for nominal alternating voltage 0,66 kV and 1kV, frequency 50Hz.

Construction

Form of cable:

Conductor:

Insulation:

Stranding:

Inner sheath :

Outer sheath :

Technical data

Operating voltage
 Operating temperature range
 Relative air humidity at the temperature up to + 35°C
 Minimum temperature of cable Installation and assembly without preheating
 Maximum continuous permissible operating temperature of cores
 Maximum possible conductors heating temperature in reset condition
 Maximum possible conductors heating temperature in short circuit
 Maximum possible conductors heating temperature in short circuit according to non-combustion condition.
 Bending radius of cable while installation and assembly
 - single-core:
 - multi-cores:
 Service life, not less
 Guaranty service life from the date of commissioning



round –AVVG-As; flat - AVVG-P-As.
Al-Zr alloy; single- or multi-wires.

PVC plasticate.

insulated 2-, 3-, 4-, 5- conductors are stranded to form a core.

over stranded insulated round-shaped conductors inner sheath of PVC plasticate is laid, which fills the interstices between the conductors

PVC plasticate.

0,66; 1 kV

from -50 °C to +50 °C

98%

-15°C

+70°C

+90°C

160°C

350°C

not less than 10 outer cable diameters

not less than 7,5 outer cable diameters

30 years

5 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
AVVG-As					
0,66kV			1kV		
1x2,5	5,3	35,0	1x2,5	5,7	40,0
1x4	5,9	45,0	1x4	6,5	53,5
1x6	6,4	54,0	1x6	7,0	63,0
1x10	7,6	78,0	1x10	7,8	81,0
1x16	8,7	105,5	1x16	8,9	110,0
1x25	10,5	152,0	1x25	10,7	157,0
1x35	11,6	189,0	1x35	11,8	194,3
1x50	13,1	244,0	1x50	13,3	250,0
2x2,5	8,9	98,0	1x70	14,9	333,8
2x4	10,2	131,0	1x95	17,0	432,0
2x6	11,2	159,0	1x120	18,5	510,0
2x10	13,6	236,5	1x150	20,8	636,0
2x16	15,4	312,0	2x2,5	9,7	114,6
2x25	20,6	540,5	2x4	11,4	160,3
2x35	23,0	680,0	2x6	12,4	191,0
3x2,5	9,3	110,0	2x10	14,0	249,0
3x4	10,8	149,0	2x16	15,8	326,0
3x6	11,8	183,0	2x25	21,0	558,5
3x10	14,4	275,0	2x35	23,4	700,5
3x16	16,4	366,0		10,2	129,0
3x25	21,8	623,0	3x4	12,1	182,0
3x35	24,4	789,0	3x6	13,1	218,8
4x2,5	10,1	127,0	3x10	14,8	288,5
4x4	11,7	174,0	3x16	16,8	382,0
4x6	12,8	215,0	3x25	22,2	644,5
4x10	15,7	325,0	3x35	24,8	812,0
4x16	17,9	437,5	4x2,5	11,0	149,0
4x25	24,0	779,0	4x4	13,1	212,8
4x35	26,7	976,0	4x6	14,3	257,0
5x2,5	10,9	150,0	4x10	16,2	342,0
5x4	12,7	208,0	4x16	18,4	456,0
5x6	14,0	258,0	4x25	24,5	806,0
5x10	17,2	395,0	4x35	27,2	1006,0
5x16	19,7	537,0	5x2,5	12,0	177,0
5x25	26,3	960,0	5x4	14,3	255,5
5x35	29,3	1207,0	5x6	15,6	310,0
			5x10	17,8	415,8
			5x16	20,3	560,8
			5x25	26,9	992,0
			5x35	29,8	1244,3

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>	<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
AVVG-P-As					
0,66kV			1kV		
2x2,5	5,25x8,10	58,5	2x2,5	5,65x8,90	68,0
2x4	5,92x9,44	77,0	2x4	6,52x10,64	95,5
2x6	6,40x10,40	97,0	2x6	7,00x11,60	115,0
2x10	7,60x12,80	145,0	2x10	7,80x13,20	152,0
3x2,5	5,25x10,95	82,5	3x2,5	5,65x12,15	97,0
3x4	5,92x12,96	113,5	3x4	6,52x14,76	138,0
3x6	6,40x14,40	140,5	3x6	7,00x16,20	167,8
3x10	7,60x18,00	213,0	3x10	7,80x18,60	224,0

VVGng(A)/VVGng(A)-P/AVVGng(A)/AVVGng(A)-P

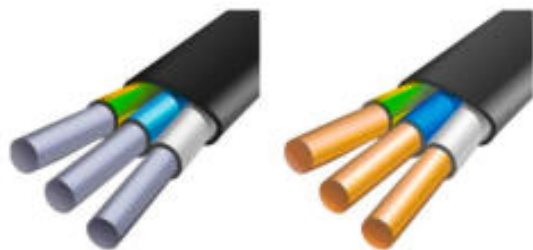
The cables meet the requirements of national standard GOST 31996, Specs. 16-705.499-2010

Analogues

According to purpose and application:
 VVGng(A) – YnKY, YnDY, NYY Flame Retardant.
 VVGng(A)-P - NYFY Flame Retardant;
 AVVGng(A) - NAYY Flame Retardant;
 AVVGng(A)-P - NAYIFY Flame Retardant.

Application

Cables are designed for power transmission and distribution in stationary equipment rated for nominal alternating voltage 0,66 kV and 1kV, frequency 50Hz.



Construction

Form of cable:

Conductor:

Insulation:

Stranding:

Inner sheath :

Outer sheath :

round - VVGng(A), AVVGng(A);
 flat - VVGng(A)-P, AVVGng(A)-P.

single- or multi-wires;
 copper - VVGng(A), VVGng(A)-P;
 aluminum - AVVGng(A), AVVGng(A)-P.
 PVC plasticate.

insulated 2-, 3-, 4-, 5- conductors are stranded to form a core.

over stranded insulated round-shaped conductors inner sheath of PVC plasticate is laid, which fills the interstices between the conductors. There is the layer of talc between insulation and inner sheath for providing the flexibility of conductors during the exploitation and for dividing the cables.

PVC plasticate of low fire hazard .

Technical data

Operating voltage
 Operating temperature range
 Relative air humidity at the temperature up to + 35°C
 Minimum temperature of cable Installation and assembly without preheating
 Maximum continuous permissible operating temperature of cores
 Maximum possible conductors heating temperature in reset condition
 Maximum possible conductors heating temperature in short circuit
 Maximum possible conductors heating temperature in short circuit according to non-combustion condition.
 Bending radius of cable while installation and assembly
 - single-core:
 - multi-cores:
 Service life, not less
 Guaranty service life from the date of commissioning

0,66; 1 kV
 from -50 °C to +50 °C
 98%
 -15°C
 +70°C
 +90°C
 160°C
 350°C
 not less than 10 outer cable diameters
 not less than 7,5 outer cable diameters
 30 years
 5 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
VVGng(A)					
0,66kV			1kV		
1x1,5	5,2	44	1x1,5	5,5	49
1x2,5	5,8	55	1x2,5	6,2	60
1x4	6,2	65	1x4	7,0	83
1x6	6,8	96	1x6	7,2	105
1x10	7,9	142	1x10	8,0	145
1x16	9,2	217	1x16	9,3	221
1x25	10,7	310	1x25	10,7	315
1x35	11,7	405	1x35	11,8	410
1x50	13,2	536	1x50	13,5	541
2x1,5	8,3	105	1x70	15,5	731
2x2,5	9,0	133	1x95	17,5	1010
2x4	10,5	184	1x120	19,0	1218
2x6	11,6	238	1x150	21,0	1505
2x10	13,8	358	2x1,5	8,9	120
2x16	15,9	520	2x2,5	9,6	150
2x25	20,8	727	2x4	11,5	214
2x35	22,9	956	2x6	12,5	270
3x1,5	8,8	122	2x10	14,0	371
3x2,5	9,6	160	2x16	16,5	532
3x4	10,9	226	2x25	21,2	740
3x6	11,9	297	2x35	23,5	970
3x10	14,5	455	3x1,5	9,5	140
3x16	17,2	696	3x2,5	10,2	180
3x25	22,0	991	3x4	12,1	260
3x35	24,2	1313	3x6	13,1	333
4x1,5	9,5	145	3x10	14,8	468
4x2,5	10,3	193	3x16	17,7	710
4x4	11,9	276	3x25	22,6	1006
4x6	13,1	367	3x35	24,7	1330
4x10	15,9	567	4x1,5	10,1	166
4x16	18,9	888	4x2,5	11,1	215
4x25	24,3	1288	4x4	13,1	315
4x35	26,7	1696	4x6	14,3	410
5x1,5	10,5	170	4x10	16,2	584
5x2,5	11,5	230	4x16	19,5	907
5x4	13,0	331	4x25	24,6	1308
5x6	14,5	443	4x35	27,0	1718
5x10	17,9	690	5x1,5	11,0	195
5x16	20,5	1090	5x2,5	12,9	256
5x25	26,5	1587	5x4	14,5	378
5x35	29,9	2096	5x6	15,9	495

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
VVGng(A)					
			5x10	17,8	710
			5x16	21,0	1111
			5x25	27,0	1615
			5x35	30,0	2125
AVVGng(A)					
1x2,5	5,8	41	1x2,5	6,2	45
1x4	6,2	51	1x4	7,0	59
1x6	6,8	60	1x6	7,2	69
1x10	7,9	83	1x10	8,0	87
1x16	9,2	118	1x16	9,3	122
1x25	10,7	160	1x25	10,7	165
1x35	11,7	196	1x35	11,8	201
1x50	13,2	255	1x50	13,5	258
2x2,5	9,0	104	1x70	15,5	323
2x4	10,5	137	1x95	17,9	438
2x6	11,6	166	1x120	19,5	511
2x10	13,8	241	1x150	21,5	624
2x16	15,9	321	2x2,5	10	121
2x25	20,8	425	2x4	12	166
2x35	22,9	536	2x6	13,0	198
3x2,5	9,6	116	2x10	14,5	253
3x4	10,9	154	2x16	16,5	331
3x6	11,9	190	2x25	21,6	436
3x10	14,5	278	2x35	23,9	550
3x16	17,2	396	3x2,5	10,2	135
3x25	22,0	536	3x4	12,1	188
3x35	24,2	681	3x6	13,1	226
4x2,5	10,3	134	3x10	14,8	292
4x4	11,9	181	3x16	17,7	410
4x6	13,1	224	3x25	22,6	552
4x10	15,9	333	3x35	25,0	700
4x16	18,9	490	4x2,5	11,2	157
4x25	24,3	682	4x4	13,3	221
4x35	26,7	855	4x6	14,6	268
5x2,5	11,5	155	4x10	16,6	350
5x4	13,0	212	4x16	19,0	506
5x6	14,5	265	4x25	25,0	702
5x10	17,9	396	4x35	28,0	877
5x16	20,5	590	5x2,5	12,9	183
5x25	26,5	830	5x4	15,0	260
5x35	29,9	1045	5x6	16,0	317

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
AVVGng(A)					
			5x10	18,5	416
			5x16	21,0	612
			5x25	28,0	855
			5x35	30,0	1073
VVGng(A)-P					
2x1,5	5,2x8,0	71	2x1,5	5,7x8,8	94
2x2,5	5,6x85	94	2x2,5	5,9x9,5	118
2x4	6,2x10	132	2x4	6,8x11,2	167
2x6	6,7x11,5	175	2x6	7,5x12,3	213
2x10	7,9x13,4	268	2x10	9,0x13,9	296
3x1,5	5,2x11,0	100	3x1,5	5,7x12,0	130
3x2,5	5,6x12,5	134	3x2,5	5,9x13,5	166
3x4	6,2x13,5	191	3x4	6,8x16,0	238
3x6	6,7x15,0	255	3x6	7,5x17,5	307
3x10	7,9x18,5	405	3x10	9,0x19,5	415
AVVGng(A)-P					
2x2,5	5,6x85	54	2x2,5	5,9x9,5	90
2x4	6,2x10	85	2x4	6,8x11,2	120
2x6	6,7x11,5	104	2x6	7,5x12,3	141
2x10	7,9x13,4	150	2x10	9,0x13,9	180
3x2,5	5,6x12,5	90	3x2,5	5,9x13,5	122
3x4	6,2x13,5	120	3x4	6,8x16,0	167
3x6	6,7x15,0	148	3x6	7,5x17,5	200
3x10	7,9x18,5	225	3x10	9,0x19,5	240

AVVGng(A)-As/AVVGPng(A)-As

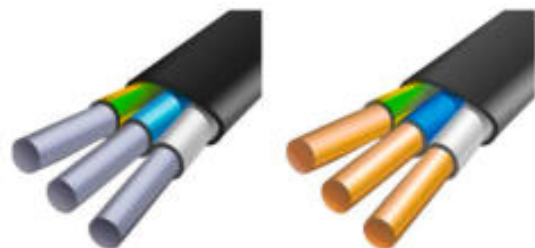
The cables meet the requirements of national standard
GOST 22483, Specs. 3500-011-46671337-2016

Analogues

According to purpose and application:
AVVGng(A)-As - NAYY Flame Retardant;
AVVGPng(A)-As - NAYIFY Flame Retardant;

Application

Cables are designed for power transmission and distribution in stationary equipment rated for nominal alternating voltage 0,66 kV and 1kV, frequency 50Hz.



Construction

Form of cable:

Conductor:

Insulation:

Stranding:

Inner sheath :

Outer sheath :

round - AVVGng(A)-As;
flat - AVVGPng(A)-As.

Al-Zr alloy.
single- or multi-wires.
PVC plasticate.

insulated 2-, 3-, 4-, 5- wires conductors are stranded to form a core.

over stranded insulated round-shaped conductors inner sheath of PVC plasticate is laid, which fills the interstices between the conductors.

PVC plasticate of low fire hazard .

Technical data

Operating voltage
Operating temperature range
Relative air humidity at the temperature up to + 35°C
Minimum temperature of cable Installation and assembly without preheating
Maximum continuous permissible operating temperature of cores
Maximum possible conductors heating temperature in reset condition
Maximum possible conductors heating temperature in short circuit
Maximum possible conductors heating temperature in short circuit according to non-combustion condition.
Bending radius of cable while installation and assembly
- single-core:
- multi-cores:
Service life, not less
Guaranty service life from the date of commissioning

0,66; 1 kV
from -50 °C to +50 °C
98%
-15°C
+70°C
+90°C
160°C
350°C
not less than 10 outer cable diameters
not less than 7,5 outer cable diameters
30 years
5 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
AVVGng(A)-As					
0,66kV			1kV		
1x2,5	5,3	36,0	1x2,5	5,7	40,8
1x4	5,9	46,0	1x4	6,5	54,8
1x6	6,4	55,0	1x6	7,0	64,0
1x10	7,6	79,0	1x10	7,8	82,5
1x16	8,7	107,0	1x16	8,9	111,0
1x25	10,5	154,0	1x25	10,7	159,0
1x35	11,6	191,5	1x35	11,8	196,8
1x50	13,1	247,0	1x50	13,3	252,0
2x2,5	8,9	100,3	1x70	14,9	336,5
2x4	10,2	134,0	1x95	17,0	435,0
2x6	11,2	162,8	1x120	18,5	514,0
2x10	13,6	241,5	1x150	20,8	641,0
2x16	15,4	318,0	2x2,5	9,7	117,5
2x25	20,6	551,5	2x4	11,4	164,0
2x35	23,0	694,0	2x6	12,4	195,0
3x2,5	9,3	112,5	2x10	14,0	254,0
3x4	10,8	152,0	2x16	15,8	333,0
3x6	11,8	186,5	2x25	21,0	570,8
3x10	14,4	279,5	2x35	23,4	715,0
3x16	16,4	372,5	3x2,5	10,2	132,0
3x25	21,8	635,0	3x4	12,1	186,0
3x35	24,4	802,5	3x6	13,1	223,0
4x2,5	10,1	130,0	3x10	14,8	294,0
4x4	11,7	177,0	3x16	16,8	388,8
4x6	12,8	218,8	3x25	22,2	656,0
4x10	15,7	331,0	3x35	24,8	826,5
4x16	17,9	444,0	4x2,5	11,0	152,0
4x25	24,0	792,0	4x4	13,1	217,0
4x35	26,7	991,8	4x6	14,3	261,8
5x2,5	10,9	153,0	4x10	16,2	347,7
5x4	12,7	207,8	4x16	18,4	463,0
5x6	14,0	262,0	4x25	24,5	819,0
5x10	17,2	401,0	4x35	27,2	1021,5
5x16	19,7	544,0	5x2,5	12,0	180,5
5x25	26,3	974,8	5x4	14,3	255,5
5x35	29,3	1225,0	5x6	15,6	315,3
			5x10	17,8	422,0
			5x16	20,3	568,0
			5x25	26,9	1008,0
			5x35	29,8	1263,0

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>	<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
AVVGPng(A)-As					
0,66kV			1kV		
2x2,5	5,25x8,10	60,0	2x2,5	5,65x8,90	69,0
2x4	5,92x9,44	80,5	2x4	6,52x10,64	97,0
2x6	6,40x10,40	99,0	2x6	7,00x11,60	117,0
2x10	7,60x12,80	147,0	2x10	7,80x13,20	154,0
3x2,5	5,25x10,95	84,2	3x2,5	5,65x12,15	98,8
3x4	5,92x12,96	115,8	3x4	6,52x14,76	140,8
3x6	6,40x14,40	143,0	3x6	7,00x16,20	170,0
3x10	7,60x18,00	216,0	3x10	7,80x18,60	227,0

NYMng(A)-LS

The cables meet the requirements of national standard
GOST IEC60227-1, GOST IEC60227-4,
Specs. 3521-026-46671337-2015

Analogues

According to purpose and application:
NYMнг(A)-LS - NYM Flame Retardant Low Smoke

Application

Cables are designed for power transmission and
distribution in stationary installation rated for nominal
voltage 300/500 V.

Construction

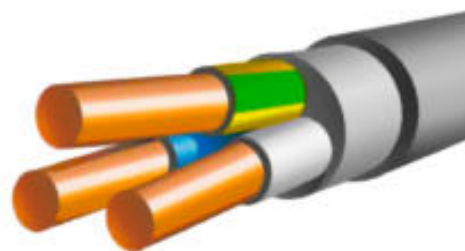
Conductor:

Insulation:

Stranding:

Filler material:

Outer sheath :



copper circular single-wire or multi-wires.

PVC plasticate of low fire hazard with identical color.

insulated 2-, 3-, 4-, 5- conductors are stranded to form a core.

cable compound or uncured rubber.

PVC plasticate of low flammability of grey color.

Coloring of insulated conductors

Number of cores

	With protective earth core
2	-
3	Green-yellow, blue, brown
4	Green-yellow, brown, black, grey
5	Green-yellow, blue, brown, black, grey

Without protective earth core

Blue, brown
Brown, black, grey
Blue, brown, black, grey
Blue, brown, black, grey

Technical data

Operating voltage	300/500V
Operating temperature range	from -50 °C to +50 °C
Cable Installation and assembly without preheating	-15° C
Relative air humidity at the temperature up to + 35°C	98%
Maximum continuous permissible operating temperature of cores	+70 °C
Bending radius of cable while installation and assembly	not less than 7,5 outer cable diameters
Service life, not less	30 years
Guaranty service life from the date of commissioning	5 years

Cable storage conditions

outdoor areas – not more than 2 years
under cover – not more than 5 years
indoor areas – not more than 10 years

<i>Number and nominal cross section, pcs x mm²</i>	<i>Number of wires in core, pcs</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
2x1,5	1	9,4	117,2
2x2,5	1	10,8	159,3
2x4	1	12,3	208,5
2x6	1	13,5	267,3
2x10	1	16,8	450,0
2x16	7	19,6	655,0
2x25		23,7	957,3
2x35		26,6	1256,8
3x1,5	1	9,9	136,0
3x2,5	1	11,4	187,3
3x4	1	13,0	250,2
3x6	1	14,7	339,5
3x10	1	17,7	549,0
3x16	7	21,0	833,0
3x25		25,6	1202,2
3x35		28,3	1574,3
4x1,5	1	10,7	162,5
4x2,5	1	12,3	227,5
4x4	1	14,6	319,5
4x6	1	16,1	443,3
4x10	1	19,5	680,0
4x16	7	23,0	1046,0
4x25		28,3	1548,2
4x35		31,3	1995,2
5x1,5	1	11,5	195,2
5x2,5	1	13,3	275,4
5x4	1	16,0	409,5
5x6	1	17,5	534,0
5x10	1	21,3	826,0
5x16	7	25,6	1300,5
5x25		31,1	1912,0
5x35		34,3	2490,4

VVGng(A)-LS/VVG-Png(A)-LS/AVVGng(A)-LS/AVVG-Png(A)-LS

The cables meet the requirements of national standard
GOST 31996, Specs. 3500-004-46671337

Analogues

According to purpose and application:

VVGng(A)-LS - YnDYp-LS, NYY Flame Retardant Low Smoke;
VVG-Png(A)-LS - YnDY-LS, NYIFY Flame Retardant Low Smoke;
AVVGng(A)-LS - NAYY Flame Retardant Low Smoke;
AVVG-Png(A)-LS - NAYIFY Flame Retardant Low Smoke.

Application

Power cables are designed for power transmission and distribution in stationary equipment rated for nominal alternating voltage up to 0,66 kV and 1kV, nominal frequency 50Hz.

Cable is used for installation in group inclusive the volume of fire load in indoor equipment, and also in buildings and close cable constructions.

Construction

Conductor:

Insulation:

Stranding:

Inner sheath :

Outer sheath :

Technical data

Operating voltage

Operating temperature range

Relative air humidity at the temperature up to + 35°C

Minimum temperature of cable installation and assembly without preheating

Maximum continuous permissible operating temperature of cores

Maximum possible conductors heating temperature in reset condition

Maximum possible conductors heating temperature in short circuit

Maximum possible conductors heating temperature in short circuit according to non-combustion condition.

Bending radius of cable while installation and assembly

- single-core:

- multi-cores:

Service life, not less

Guaranty service life from the date of commissioning



single- or multi-wires;
copper - VVGng(A)-LS/ VVG-Png(A)-LS;
aluminum - AVVGng(A)-LS/ AVVG-Png(A)-LS.

PVC plasticate of low fire hazard.

insulated 2-, 3-, 4-, 5- conductors are stranded to form a core.

low flammability polymer compound is laid over stranded insulated round-shaped conductors. It fills the interstices between the conductors, improves fire safety qualities and circularize the cross section of the cable. There is the layer of talc between insulation and inner sheath for providing the flexibility of conductors during the exploitation and for dividing the cables.

low fire hazard black colored PVC compound. The sheath is laid under the filling and fits flush with it. It provides the free separation of any cable's elements from each other without any damage.

0,66; 1 kV

from -50 °C to +50 °C

98%

-15°C

+70°C

+90°C

160°C

350°C

not less than 10 outer cable diameters

not less than 7,5 outer cable diameters

30 years

5 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
VVGng(A)-LS					
0,66kV			1kV		
1x1,5	5,2	42	1x1,5	5,5	52
1x2,5	5,8	55	1x2,5	6,2	60
1x4	6,2	75	1x4	7,0	83
1x6	6,8	95	1x6	7,2	109
1x10	7,9	145	1x10	8,0	150
1x16	9,2	221	1x16	9,3	230
1x25	10,7	318	1x25	10,7	325
1x35	11,7	415	1x35	11,8	425
1x50	13,2	550	1x50	13,5	555
2x1,5	8,3	110	1x70	15,5	760
2x2,5	9,0	140	1x95	17,5	1050
2x4	10,5	195	1x120	19,0	160
2x6	11,6	250	1x150	21,0	1560
2x10	13,8	380	2x1,5	8,9	125
2x16	15,9	570	2x2,5	9,6	160
2x25	20,8	945	2x4	11,5	230
2x35	22,9	1215	2x6	12,5	285
3x1,5	8,8	130	2x10	14,0	395
3x2,5	9,6	170	2x16	16,5	585
3x4	10,9	235	2x25	21,2	965
3x6	11,9	316	2x35	23,5	1240
3x10	14,5	476	3x1,5	9,5	150
3x16	17,2	730	3x2,5	10,2	190
3x25	22,0	1180	3x4	12,1	275
3x35	24,2	1540	3x6	13,1	355
4x1,5	9,5	150	3x10	14,8	492
4x2,5	10,3	200	3x16	17,7	749
4x4	11,9	290	3x25	22,6	1200
4x6	13,1	380	3x35	24,7	1570
4x10	15,9	590	4x1,5	10,1	175
4x16	18,9	910	4x2,5	11,1	230
4x25	24,3	1510	4x4	13,1	330
4x35	26,7	1945	4x6	14,3	435
5x1,5	10,5	180	4x10	16,2	615
5x2,5	11,5	240	4x16	19,5	930
5x4	13,0	350	4x25	24,6	1560
5x6	14,5	465	4x35	27,0	1990
5x10	17,9	725	5x1,5	11,0	210
5x16	20,5	1125	5x2,5	12,9	270
5x25	26,5	1870	5x4	14,5	402
5x35	29,9	2425	5x6	15,9	525

Power PVC insulated cables, flame retardant,
with low smoke and gas emission

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
VVGng(A)-LS					
			5x10	17,8	750
			5x16	21,0	1160
			5x25	27,0	1930
			5x35	30,0	2460
AVVGng(A)-LS					
1x2,5	5,8	40	1x2,5	6,2	45
1x4	6,2	52	1x4	7,0	60
1x6	6,8	60	1x6	7,2	70
1x10	7,9	86	1x10	8,0	90
1x16	9,2	117	1x16	9,3	120
1x25	10,7	170	1x25	10,7	172
1x35	11,7	210	1x35	11,8	210
1x50	13,2	270	1x50	13,5	272
2x2,5	9,0	110	1x70	15,5	350
2x4	10,5	150	1x95	17,9	460
2x6	11,6	176	1x120	19,5	559
2x10	13,8	262	1x150	21,5	675
2x16	15,9	342	2x2,5	10	130
2x25	20,8	637	2x4	12	180
2x35	22,9	800	2x6	13,0	220
3x2,5	9,6	121	2x10	14,5	280
3x4	10,9	165	2x16	16,5	360
3x6	11,9	201	2x25	21,6	665
3x10	14,5	302	2x35	23,9	820
3x16	17,2	405	3x2,5	10,2	145
3x25	22,0	720	3x4	12,1	201
3x35	24,2	895	3x6	13,1	245
4x2,5	10,3	140	3x10	14,8	320
4x4	11,9	192	3x16	17,7	420
4x6	13,1	236	3x25	22,6	745
4x10	15,9	356	3x35	25,0	925
4x16	18,9	476	4x2,5	11,2	170
4x25	24,3	890	4x4	13,3	240
4x35	26,7	1110	4x6	14,6	290
5x2,5	11,5	122	4x10	16,6	375
5x4	13,0	165	4x16	19,0	499
5x6	14,5	203	4x25	25,0	925
5x10	17,9	306	4x35	28,0	1135
5x16	20,5	402	5x2,5	12,9	200
5x25	26,5	720	5x4	15,0	285
5x35	29,9	899	5x6	16,0	345

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
AVVGng(A)-LS					
			5x10	18,5	460
			5x16	21,0	610
			5x25	28,0	1135
			5x35	30,0	1410
VVGpNg(A)-LS					
2x1,5	5,2x8,0	75	2x1,5	5,7x8,8	86
2x2,5	5,6x85	101	2x2,5	5,9x9,5	112
2x4	6,2x10	141	2x4	6,8x11,2	160
2x6	6,7x11,5	185	2x6	7,5x12,3	205
2x10	7,9x13,4	285	2x10	9,0x13,9	292
3x1,5	5,2x11,0	110	3x1,5	5,7x12,0	120
3x2,5	5,6x12,5	141	3x2,5	5,9x13,5	160
3x4	6,2x13,5	210	3x4	6,8x16,0	235
3x6	6,7x15,0	270	3x6	7,5x17,5	301
3x10	7,9x18,5	420	3x10	9,0x19,5	430
AVVGpNg(A)-LS					
2x2,5	5,6x85	70	2x2,5	5,9x9,5	81
2x4	6,2x10	92	2x4	6,8x11,2	112
2x6	6,7x11,5	111	2x6	7,5x12,3	135
2x10	7,9x13,4	165	2x10	9,0x13,9	175
3x2,5	5,6x12,5	96	3x2,5	5,9x13,5	115
3x4	6,2x13,5	132	3x4	6,8x16,0	160
3x6	6,7x15,0	160	3x6	7,5x17,5	195
3x10	7,9x18,5	240	3x10	9,0x19,5	255

AVVGng(A)-LS-As/AVVGPng(A)-LS-As

The cables meet the requirements of national standard GOST 22483, Specs. 3500-011-46671337-2016

Analogues

According to purpose and application:
AVVGng(A)-LS-As - NAYY Flame Retardant Low Smoke;
AVVGPng(A)-LS-As - NAYIFY Flame Retardant Low Smoke.

Application

Cables are designed for power transmission and distribution in stationary equipment rated for nominal alternating voltage 0,66 kV and 1kV, frequency 50Hz.

Construction

Form of cable:

Conductor:

Insulation:

Stranding:

Inner sheath :

Outer sheath :

Technical data

Operating voltage
Operating temperature range
Relative air humidity at the temperature up to + 35°C
Minimum temperature of cable Installation and assembly without preheating
Maximum continuous permissible operating temperature of cores
Maximum possible conductors heating temperature in reset condition
Maximum possible conductors heating temperature in short circuit
Maximum possible conductors heating temperature in short circuit according to non-combustion condition.
Bending radius of cable while installation and assembly
- single-core:
- multi-cores:
Service life, not less
Guaranty service life from the date of commissioning



round - AVVGng(A)-LS-As;

flat - AVVGPng(A)-LS-As.

Al-Zr alloy; single- or multi-wires.

low smoke and gas emission PVC plasticate of low flammability.

insulated 2-, 3-, 4-, 5- wires conductors are stranded to form a core.

low flammability polymer compound is laid over stranded insulated round-shaped conductors. It fills the interstices between the conductors, improves fire safety qualities and circularizes the cross section of the cable.

PVC plasticate of low fire hazard.

0,66; 1 kV

from -50 °C to +50 °C

98%

-15°C

+70°C

+90°C

160°C

350°C

not less than 10 outer cable diameters

not less than 7,5 outer cable diameters

30 years

5 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
AVVGng(A)-LS-As					
0,66kV			1kV		
1x2,5	5,3	38,5	1x2,5	5,7	44,0
1x4	5,9	50,0	1x4	6,5	59,0
1x6	6,4	55,0	1x6	7,0	69,0
1x10	7,6	84,5	1x10	7,8	88,0
1x16	8,7	114,0	1x16	8,9	118,0
1x25	10,5	163,0	1x25	10,7	168,5
1x35	11,6	202,0	1x35	11,8	207,8
1x50	13,1	260,0	1x50	13,3	266,0
2x2,5	8,9	108,0	1x70	14,9	352,8
2x4	10,2	144,0	1x95	17,0	455,8
2x6	11,2	174,5	1x120	18,5	537,3
2x10	13,6	258,8	1x150	20,8	669,5
2x16	15,4	339,5	2x2,5	9,7	127,0
2x25	20,6	628,0	2x4	11,4	177,0
2x35	23,0	788,0	2x6	12,4	210,0
3x2,5	9,3	121,0	2x10	14,0	272,8
3x4	10,8	163,5	2x16	15,8	355,0
3x6	11,8	200,0	2x25	21,0	651,0
3x10	14,4	299,0	2x35	23,4	813,5
3x16	16,4	396,0	3x2,5	10,2	142,5
3x25	21,8	710,0	3x4	12,1	201,0
3x35	24,4	894,5	3x6	13,1	240,3
4x2,5	10,1	139,8	3x10	14,8	315,0
4x4	11,7	190,0	3x16	16,8	414,0
4x6	12,8	233,8	3x25	22,2	735,8
4x10	15,7	353,0	3x35	24,8	923,0
4x16	17,9	471,0	4x2,5	11,0	164,5
4x25	24,0	882,0	4x4	13,1	234,0
4x35	26,7	1100,0	4x6	14,3	281,8
5x2,5	10,9	165,0	4x10	16,2	372,0
5x4	12,7	227,0	4x16	18,4	493,0
5x6	14,0	281,0	4x25	24,5	913,8
5x10	17,2	429,0	4x35	27,2	1135,0
5x16	19,7	578,0	5x2,5	12,0	195,5
5x25	26,3	1085,5	5x4	14,3	281,0
5x35	29,3	1359,0	5x6	15,6	340,0
			5x10	17,8	452,0
			5x16	20,3	606,0
			5x25	26,9	1124,5
			5x35	29,8	1403,5

Power PVC insulated cables, flame retardant, with low smoke and gas emission

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
AVVGPng(A)-LS-As					
0,66kV			1kV		
2x2,5	5,25x8,10	64,0	2x2,5	5,65x8,90	75,0
2x4	5,92x9,44	86,0	2x4	6,52x10,64	105,0
2x6	6,40x10,40	105,0	2x6	7,00x11,60	125,8
2x10	7,60x12,80	157,0	2x10	7,80x13,20	165,0
3x2,5	5,25x10,95	90,8	3x2,5	5,65x12,15	107,0
3x4	5,92x12,96	124,0	3x4	6,52x14,76	152,0
3x6	6,40x14,40	152,5	3x6	7,00x16,20	183,3
3x10	7,60x18,00	230,8	3x10	7,80x18,60	243,0

VVGng(A)-LSLTx/VVG-Png(A)-LSLTx/AVVGng(A)-LSLTx/AVVG-Png(A)-LSLTx

The cables meet the requirements of national standard GOST 31996, Specs. 3500-013-46671337-2016

Application

Power cables are designed for power transmission and distribution in stationary equipment rated for nominal alternating voltage up to 0,66 kV and 1kV, nominal frequency 50Hz.

Construction

Conductor:

Insulation:

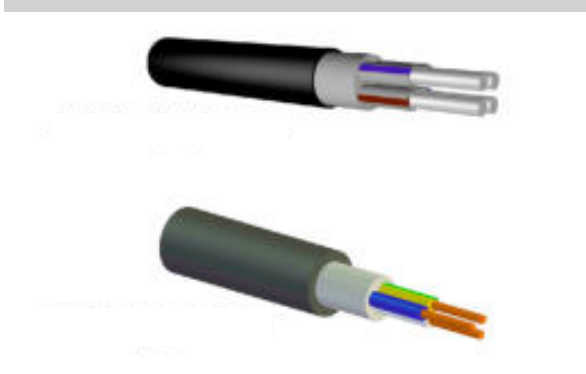
Stranding:

Inner sheath :

Outer sheath :

Technical data

Operating voltage
 Operating temperature range
 Relative air humidity at the temperature up to + 35°C
 Minimum temperature of cable Installation and assembly without preheating
 Maximum continuous permissible operating temperature of cores
 Maximum possible conductors heating temperature in reset condition
 Maximum possible conductors heating temperature in short circuit
 Maximum possible conductors heating temperature in short circuit according to non-combustion condition.
 Bending radius of cable while installation and assembly
 - single-core:
 - multi-cores:
 Service life, not less
 Guaranty service life from the date of commissioning



single - or multi-wires;
 copper - VVGng(A)-LSLTx/ VVG-Png(A)-LSLTx;
 aluminum - AVVGng(A)-LSLTx/ AVVG-Png(A)-LSLTx.

low smoke and gas emission PVC plasticate of low flammability with low toxicity of combustion products.

insulated 2-, 3-, 4- , 5- conductors are stranded to form a core.

low flammability polymer compounds with low toxicity of combustion products is laid over stranded insulated round-shaped conductors. It fills the interstices between the conductors, improves fire safety qualities and circularizes the cross section of the cable. There is the layer of talc between insulation and inner sheath for providing the flexibility of conductors during the exploitation and for dividing the cables.

low smoke and gas emission PVC plasticate of low flammability with low toxicity of combustion products.

0,66; 1 kV
 from -50 °C to +50 °C
 98%
 -15°C
 +70°C
 +90°C
 160°C
 350°C

not less than 10 outer cable diameters
 not less than 7,5 outer cable diameters
 30 years
 5 years

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>	<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
VVGng(A)-LSLTx					
0,66kV			1kV		
1x1,5	4,9	43	1x1,5	5,3	49
1x2,5	5,2	55	1x2,5	5,6	61
1x4	5,9	76	1x4	6,5	86
1x6	6,4	98	1x6	7,0	109
1x10	7,6	147	1x10	7,8	151
1x16	9,1	219	1x16	9,3	224
1x25	10,6	323	1x25	10,8	329
1x35	11,6	420	1x35	11,8	426
1x50	13,2	556	1x50	13,4	564
1x70	-	-	1x70	15,0	764
1x95	-	-	1x95	17,2	1034
1x120	-	-	1x120	18,7	1278
1x150	-	-	1x150	20,8	1583
2x1,5	8,1	112	2x1,5	8,9	131
2x2,5	8,9	143	2x2,5	9,7	163
2x4	10,2	199	2x4	11,4	235
2x6	11,2	256	2x6	12,4	295
2x10	13,6	390	2x10	14,0	405
2x16	16,2	573	2x16	16,6	491
2x25	20,8	1210	2x25	21,2	1245
2x35	23,0	1538	2x35	23,4	1576
3x1,5	8,5	131	3x1,5	9,3	153
3x2,5	9,3	171	3x2,5	10,1	195
3x4	10,7	243	3x4	12,0	284
3x6	11,8	318	3x6	13,1	363
3x10	14,4	490	3x10	14,8	508
3x16	17,2	727	3x16	17,6	748
3x25	22,0	1426	3x25	22,4	1464
3x35	24,4	1831	3x35	24,8	1872
4x1,5	9,1	155	4x1,5	10,1	180
4x2,5	10,0	206	4x2,5	11,0	233
4x4	11,6	295	4x4	13,1	343
4x6	12,8	390	4x6	14,3	443
4x10	15,7	605	4x10	16,2	626
4x16	18,9	903	4x16	19,3	929
4x25	24,3	1766	4x25	24,8	1811
4x35	26,7	2260	4x35	27,2	2309
5x1,5	9,5	190	5x1,5	10,9	223
5x2,5	9,3	254	5x2,5	11,9	290
5x4	10,7	369	5x4	14,3	432
5x6	11,8	491	5x6	15,6	561

Power PVC insulated cables, flame retardant with low toxicity of combustion products

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
VVGng(A)-LSLTx					
5x10	14,4	769	5x10	17,8	797
5x16	17,2	1156	5x16	21,3	1190
5x25	22,0	2136	5x25	27,1	2264
5x35	24,4	2747	5x35	29,8	2895
AVVGng(A)-LSLTx					
1x2,5	5,2	40	1x2,5	5,6	46
1x4	5,9	52	1x4	6,5	62
1x6	6,4	62	1x6	7,0	73
1x10	7,6	89	1x10	7,8	93
1x16	8,7	120	1x16	8,9	125
1x25	10,6	167	1x25	10,8	172
1x35	11,6	207	1x35	11,8	213
1x50	13,2	266	1x50	13,4	273
1x70	-	-	1x70	15,0	368
1x95	-	-	1x95	17,2	475
1x120	-	-	1x120	18,7	556
1x150	-	-	1x150	20,8	697
2x2,5	8,9	114	2x2,5	9,7	134
2x4	10,2	152	2x4	11,4	187
2x6	11,2	185	2x6	12,4	224
2x10	13,6	274	2x10	14,0	289
2x16	15,4	359	2x16	15,8	376
2x25	20,8	873	2x25	21,2	906
2x35	23,0	1103	2x35	23,4	1140
3x2,5	9,3	128	3x2,5	10,1	151
3x4	10,7	172	3x4	12,0	213
3x6	11,8	211	3x6	13,1	257
3x10	14,4	316	3x10	14,8	335
3x16	16,4	418	3x16	16,8	440
3x25	22,0	935	3x25	22,4	974
3x35	24,4	1182	3x35	24,8	1227
4x2,5	10,0	149	4x2,5	11,0	177
4x4	11,6	203	4x4	13,1	252
4x6	12,8	251	4x6	14,3	305
4x10	15,7	379	4x10	16,2	400
4x16	17,9	505	4x16	18,4	528
4x25	24,3	1129	4x25	24,8	1158
4x35	26,7	1414	4x35	27,2	1462
5x2,5	10,8	180	5x2,5	11,9	216
5x4	12,7	249	5x4	14,3	312
5x6	14,0	312	5x6	15,6	383
5x10	17,2	479	5x10	17,8	506

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>	<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
AVVGng(A)-LSLTx					
5x16	19,7	639	5x16	20,3	670
5x25	26,6	1392	5x25	26,9	1446
5x35	29,3	1754	5x35	29,8	1815
VVGPng(A)-LSLTx					
2x1,5	4,85x7,30	73	2x1,5	6,05x8,90	100
2x2,5	5,23x8,06	97	2x2,5	6,43x9,66	126
2x4	5,920x9,40	138	2x4	7,30x11,40	179
2x6	6,40x10,40	183	2x6	7,80x12,40	228
2x10	7,60x12,80	282	2x10	8,60x14,00	316
3x1,5	4,85x9,75	104	3x1,5	6,05x11,75	141
3x2,5	5,23x10,89	139	3x2,5	6,43x12,89	179
3x4	5,90x12,90	201	3x4	7,30x15,50	258
3x6	6,40x14,40	268	3x6	7,80x17,00	331
AVVGPng(A)-LSLTx					
2x2,5	6,03x8,86	84	2x2,5	6,43x9,66	97
2x4	6,70x10,20	109	2x4	7,30x11,40	132
2x6	7,20x11,20	132	2x6	7,80x12,40	156
2x10	8,40x13,60	191	2x10	8,60x14,00	200
3x2,5	6,03x11,69	116	3x2,5	6,43x12,89	135
3x4	6,70x13,70	154	3x4	7,30x15,50	187
3x6	7,20x15,20	187	3x6	7,80x17,00	224

PPGng(A)-HF

The cables meet the requirements of national standard GOST31996, Specs. 3500-005-46671337-2015

Analogues

According to purpose and application:
PPGng(A)-HF - NHXH FE 180, N2XH FE 180

Application

Cables are designed for power transmission and distribution in stationary equipment for nominal alternating voltage 0,66 kV and 1kV and nominal frequency 50Hz.

Cables are used for installation in premises and offices that equipped with computers, in living and commercial buildings (hospitals, schools, shops and etc.)

Construction

Conductor:

Insulation:

Stranding:

Inner sheath :

Filler:

Outer sheath :

Technical data

Operating voltage

Operating temperature range

Assembling temperature

Maximum continuous permissible operating temperature of cores

Maximum possible conductors heating temperature in reset condition

Maximum possible conductors heating temperature in short circuit

Duration of short circuit of power cable, not more

Duration of power cable operating in reset condition shall not be more than 8 hours per day and not more than 1 000 hours for all service life

Maximum possible conductors heating temperature in short circuit according to non-combustion condition.

Bending radius of cable while installation and assembly

- single-core:

- multi-cores:

Service life, not less

Guaranty service life from the date of commissioning



copper; single- or multi - wire.

halogen-free polymer compound.

insulated 2-, 3-, 4- , 5- wires conductors are stranded to form a core.

filler of halogen-free polymer compound of low flammability that fills the interstices between the conductors is laid over stranded insulated conductors. It improves fire safety qualities and makes the circular form to cable.

the layer of talc between insulation and inner sheath for providing the flexibility of conductors during the exploitation and for dividing the cables.

halogen-free polymer compound.

0,66; 1 kV

from -50 °C to +50 °C

not low -15°C

+70°C

+90°C

160°C

5 seconds

8 hours per day and not more than 1 000 hours for all

350°C

not less than 10 outer cable diameters

not less than 7,5 outer cable diameters

not more than 30 years

5 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg	Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
PPGng(A)-HF					
0,66kV			1kV		
1x1,5	5,2	40,0	1x1,5	5,5	46,0
1x2,5	5,8	51,2	1x2,5	6,2	57,0
1x4	6,2	70,3	1x4	7,0	82,0
1x6	6,8	91,6	1x6	7,2	101,0
1x10	7,9	139,5	1x10	8,0	144,0
1x16	9,2	200,5	1x16	9,3	206,2
1x25	10,7	292,8	1x25	10,7	299,5
1x35	11,7	395,0	1x35	11,8	400,0
1x50	13,2	518,0	1x50	13,5	523,5
2x1,5	8,3	100,9	1x70	15,5	745,8
2x2,5	9,0	130,9	1x95	17,5	1020
2x4	10,5	183,0	1x120	19,0	1250
2x6	11,6	2334,9	1x150	21,0	1538
2x10	13,8	365,0	2x1,5	8,9	118,6
2x16	15,9	523,0	2x2,5	9,6	148,5
2x25	20,8	873	2x4	11,5	213,0
2x35	22,9	1140,5	2x6	12,5	270,0
3x1,5	8,8	119,9	2x10	14,0	378,2
3x2,5	9,6	159	2x16	16,5	539,8
3x4	10,9	225	2x25	21,2	896,0
3x6	11,9	295	2x35	23,5	1165,2
3x10	14,5	462	3x1,5	9,5	138,9
3x16	17,2	671,0	3x2,5	10,2	179,0
3x25	22,0	1100	3x4	12,1	259,4
3x35	24,2	1455	3x6	13,1	332,6
4x1,5	9,5	142,0	3x10	14,8	473,9
4x2,5	10,3	189,0	3x16	17,7	689,0
4x4	11,9	273	3x25	22,6	1126,6
4x6	13,1	364,5	3x35	24,7	1479,0
4x10	15,9	570,5	4x1,5	10,1	163,2
4x16	18,9	839,0	4x2,5	11,1	215,2
4x25	24,3	1400	4x4	13,1	312,9
4x35	26,7	1855	4x6	14,3	409,2
5x1,5	10,5	170	4x10	16,2	590,1
5x2,5	11,5	229,3	4x16	19,5	859,3
5x4	13,0	332,0	4x25	24,6	1429,2
5x6	14,5	446	4x35	27,0	1886,2
5x10	17,9	706	5x1,5	11,0	195,0
5x16	20,5	1033	5x2,5	12,9	256,6
5x25	26,5	1730	5x4	14,5	380
5x35	29,9	2320	5x6	15,9	496,5
			5x10	17,8	726,0
			5x16	21,0	1059,5
			5x25	27,0	1768,2
			5x35	30,0	2341

KG/KG-HL

The cables meet the requirements of national standard
GOST 24334, Specs. 16.K73.05-93

Analogues

According to purpose and application:
KG - H07RN-F; KRANFLEX NSHTOU;
KG-HL - H07RN-F.

Application

Cables are designed for connection the portable devices
to electric power lines rated for alternating voltage up to
660V and frequency up to 400Hz or rated voltage up to
1000V.

Construction

Conductor:

Number of cores:

Insulation:

Stranding:

Cable sheath:

Outer sheath :

Technical data

Operating voltage

Operating temperature range

- for KG

- for KG-HL

Cables with nominal cores` cross section ≥ 6 mm or more shall be
resistant to repeated bending for angle
 $\pm\pi/2$ with nominal tensile force 49H (5,0kgf)

Maximum continuous permissible operating temperature of cores

Cables with nominal cross section of main cores up to 4 mm
including shall be resistant to repeated

bending for rollers` system in current rating and resist not less than
30 000 cycles of bending.

Service life, not less

Guaranty service life from the date of commissioning



copper, multi-wires, round shaped.
from 1 to 4.

insulated rubber.

insulated solid circular 2-, 3-,
4-conductors cables are stranded to
form a core.

KG - sheathing rubber;

KG -HL - cold resistant sheathing
rubber.

halogen-free polymer compound.

400 V

from -40 °C to +50 °C

from -60 °C to +50 °C

+75°C

4 years

6 months

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
KG/KG-HL		
1x2,5	5,9	62
1x4	6,8	88
1x6	7,6	114
1x10	9,5	184
1x16	10,6	240
1x25	13,0	360
1x35	14,6	460
1x50	16,6	635
1x70	18,4	830
1x95	21,9	1160
1x120	24,8	1360
2x1,5	9,4	110
2x2,5	11,4	170
2x4	13,0	210
2x6	15,0	280
2x10	21,0	500
2x16	24,0	680
2x25	28,0	960
2x35	30,8	1260
3x1,5	11,0	150
3x2,5	12,5	210
3x4	14,5	280
3x6	16,5	380
3x10	22,0	680
3x16	25,0	900
3x25	30,0	1300
3x35	33,6	1730
4x1,5	11,5	180
4x2,5	13,5	250
4x4	16,0	350
4x6	18,1	480
4x10	24,5	800
4x16	27,2	1150
4x25	33,0	1700
4x35	37,5	2200

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
KG/KG-HL		
2x1,5+1x1,5	11,0	150,0
2x2,5+1x1,5	12,3	210
2x4+1x2,5	14,2	275
2x6+1x4	16,0	370
2x10+1x6	20,6	615
2x16+1x6	23,5	835
2x16+1x10	24,5	900
2x25+1x10	28,5	1200
2x25+1x16	28,5	1320
2x35+1x10	33,0	1300
3x1,5+1x1,5	11,7	180
3x2,5+1x1,5	13,5	230
3x4+1x2,5	15,5	320
3x6+1x4	17,7	425
3x10+1x6	23,0	720
3x16+1x6	26,0	980
3x25+1x10	31,3	1430
3x25+1x16	33,0	1580
3x35+1x10	35,0	1950
3x35+1x16	35,5	2000
3x35+1x25	36,5	2200

KuVV/KuGVV

The cables meet the requirements of national standard GOST 31947, Specs. 16-705.501-2010

Analogues

According to purpose and application:

KUVV - H07VV-U;

KUGVV - H07VV-K.

Application

The cables are designed for electrical installations for fixed installation in lighting and power systems, as well as for assembling the electrical equipment, machines, mechanisms, machine tools, indoor electrical settings for alternating voltage up to 300/500 V including and nominal frequency up to 400Hz for cables.

Construction

Conductor:

Insulation:

Stranding:

Sheath:

Technical data

Operating voltage
 Operating temperature range
 Cable Installation and assembly without preheating
 Maximum continuous permissible operating temperature of cores
 Bending radius of cable while installation and assembly
 KuVV
 KuGVV
 Service life
 Guaranty service life from the date of commissioning



copper.

PVC plasticate.

insulated conductors 2, 3, 4, 5- cores cables are stranded to form a core.

filler of PVC plasticate that fills the interstices between the conductors is laid over stranded insulated conductors. It makes the circular form to cable.

There is the layer of talc between insulation and inner sheath for providing the flexibility of conductors during the exploitation and for dividing the cables.

350/500 V

from -50°C to +65°C

not low -15°C

+70°C

10 outer cable diameters

5 outer cable diameters

not less than 20 years

3 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
KuVV		
2x1,5	10,0	147
2x2,5	11,5	196
2x4	12,5	247
2x6	13,5	311
2x10	16,5	491
2x16	20,0	741
2x25	24,0	1079
2x35	27,5	1422
2x50	30,8	1921
3x1,5	10,5	215
3x2,5	12,0	283
3x4	13,0	354
3x6	14,5	482
3x10	17,5	698
3x16	21,5	1042
3x25	26,0	1574
3x35	29,0	1988
3x50	32,8	2679
4x1,5	11,5	299
4x2,5	13,0	391
4x4	14,5	537
4x6	16,0	662
4x10	19,0	951
4x16	23,5	1407
4x25	28,5	2119
4x35	32,0	2664
5x1,5	12,0	396
5x2,5	14,0	515
5x4	16,0	706
5x6	17,5	866
5x10	21,0	1235
5x16	26,0	1930
5x25	31,5	2722
5x35	35,0	3408

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
KuGVV		
2x0,75	8,5	118
2x1,0	9,3	129
2x1,5	10,0	161
2x2,5	11,5	218
2x4	12,5	277
2x6	14,8	382
2x10	18,4	599
2x16	21,4	815
2x25	25,5	1159
2x35	29,5	1589
2x50	34,8	2205
3x0,75	8,9	173
3x1,0	9,2	188
3x1,5	10,5	233
3x2,5	12,0	312
3x4	13,0	394
3x6	16,2	581
3x10	19,7	837
3x16	22,7	1131
3x25	27,7	1668
3x35	31,4	2186
4x0,75	9,5	242
4x1,0	9,9	263
4x1,5	11,5	324
4x2,5	13,0	430
4x4	14,6	594
4x6	17,7	794
4x10	21,6	1134
4x16	25,1	1521
4x25	30,6	2239
4x35	34,8	2918
5x0,75	10,3	322
5x1,0	10,9	349
5x1,5	12,0	429
5x2,5	14,0	566
5x4	16,0	780
5x6	19,4	1037
5x10	23,8	1470
5x16	28,1	2090
5x25	33,8	2876
5x35	38,5	3730

KuVVng(A)-LS / KuGVVng(A)-LS

The cables meet the requirements of national standard GOST 31947, Specs. 3551-019-46671337-2012

Analogues

According to purpose and application:
KUVVng(A)-LS - OLFLEX Classic 110H, OLFLEX 120 H, OLFLEX 130 H, JZ-500 HMM, FLAME-JZ-H.

Application

The cables are designed for electrical installations for fixed installation in lighting and power systems, as well as for assembling the electrical equipment, machines, mechanisms, machine tools, indoor electrical settings for nominal alternating voltage up to 300/500 V and frequency up to 400Hz.

Construction

Conductor:

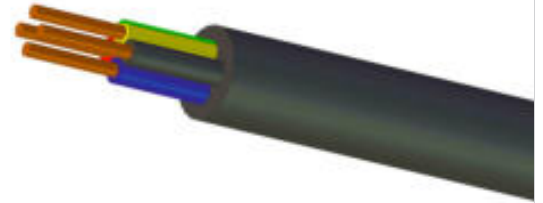
Insulation:

Stranding:

Sheath:

Technical data

Operating voltage	450/750 V
Operating temperature range	from -50°C to +65°C
Maximum continuous permissible operating temperature of cores	70°C
Assembling temperature, not low	-15°C
Bending radius of cable while installation and assembly	10 outer cable diameters
KuVVng(A)-LS	5 outer cable diameters
KuGVVng(A)-LS	15 years
Service life	3 years
Guaranty service life from the date of commissioning	



copper; KuGVVng(A)-LS - flexible conductor.
PVC plasticate of low flammability.
insulated conductors are stranded around each other, carry identification color.
black colored PVC compound of low flammability. The sheath is laid under the filling and fits flush with it. The free separation of any cable's elements from each other without damage is provided.

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
KuVVng(A)-LS		
2x1,5	9,8	97,2
2x2,5	10,6	135,5
2x4	12,4	180,2
2x6	13,9	234,5
2x10	18,0	380,3
2x16	19,5	609,2
2x25	23,7	885,0
2x35	26,4	1162,0
2x50		1578,0
3x1,5	10,3	115,3
3x2,5	11,2	163,5
3x4	13,0	221,0
3x6	14,7	306,0
3x10	19,0	478,3
3x16	20,7	784,0
3x25	25,3	1167,5
3x35	28,0	1512,5
4x1,5	11,1	141,0
4x2,5	12,1	201,5
4x4	14,2	287,3
4x6	16,0	352,0
4x10	20,9	603,0
4x16	22,8	998,0
4x25	27,9	1489,0
4x35	31,0	1937,0
5x1,5	12,0	173,3
5x2,5	13,1	250,5
5x4	15,5	357,2
5x6	18,2	477,0
5x10	20,5	757,2
5x16	25,7	1280,3
5x25	31,0	1879,0
5x35	34,5	2447,0

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
KuGVVng(A)-LS		
2x0,75	8,5	69,5
2x1,0	9,3	78,0
2x1,5	10,0	101,0
2x2,5	11,5	146,3
2x4	12,5	191,0
2x6	13,5	260,5
2x10	16,5	417,8
2x16	20,0	643,2
2x25	24,0	898,5
2x35	27,5	1210,4
2x50		1698,3
3x0,75	8,9	80,2
3x1,0	9,2	91,0
3x1,5	10,5	118,5
3x2,5	12,0	175,5
3x4	13,0	232,5
3x6	14,5	336,0
3x10	17,5	521,0
3x16	21,5	801,8
3x25	26,0	1146,0
3x35	29,0	1524,0
4x0,75	9,5	96,0
4x1,0	9,9	110,0
4x1,5	11,5	144,2
4x2,5	13,0	216,0
4x4	14,5	302,0
4x6	16,0	419,3
4x10	19,0	655,0
4x16	23,5	1012,0
4x25	28,5	1450,4
4x35	32,0	1934,0
5x0,75	10,3	117,2
5x1,0	10,9	134,2
5x1,5	12,0	178,0
5x2,5	14,0	269,4
5x4	16,0	376,0
5x6	17,5	525,0
5x10	21,0	825,0
5x16	26,0	1307,2
5x25	31,5	1841,0
5x35	35,0	2457,0

KVVG/AKVVG/KVVGz/AKVVGz

The cables meet the requirements of national standard GOST1508-78

Analogues

According to purpose and application:

KVVG - MMO, NYY;

KVVGz - NYY.

Application

Cables are designed for fixed connection to electric devices, machines and assemblies of electric distribution devices rated for alternating voltage up to 660 V and frequency up to 100Hz or constant voltage up to 1000V.

Construction

Conductor:

Insulation:

Stranding:

Filler:

Outer sheath :

Technical data

Operating voltage

Operating temperature range

Relative air humidity at the temperature up to + 35°C

Assembling temperature, not low

Bending radius of cable while installation and assembly:

for cables with outer diameter 10 mm:

for cables with outer diameter 10-25 mm:

Service life

Guaranty service life from the date of commissioning



copper - KVVG, KVVGz;
aluminium - AKVVG, AKVVGz.

PVC plasticate.

insulated solid circular conductors are stranded to form a core.

KVVGz/AKVVGz - the layer of talc between insulation and inner sheath for providing the flexibility of conductors during the exploitation and for dividing the cables.

PVC plasticate.

0,66 kV

from -50°C to +50°C

98%

-15°C

not less than 6 outer cable diameters

not less than 3 outer cable diameters (at 0°C)

not less than 4 outer cable diameters (at 0°C)

considering restrictions for the rules of assembly, operating and storage conditions is not less than 15 years, while installation in buildings, channels, tunnels is not less than 25 years.

3 years

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
KVVG		
4x1	8,0	88
4x1,5	9,2	122,0
4x2,5	10,1	165
4x4	11,7	240
4x6	12,9	325
5x1	9,3	120
5x1,5	9,9	150
5x2,5	10,9	205
7x1	10	150
7x1,5	10,7	185
7x2,5	11,8	260
7x4	13,9	381
7x6	15,4	522
10x1	12,3	203
10x1,5	13,2	254
10x2,5	14,8	360
10x4	17,5	533
10x6	19,9	754
14x1	13,3	261
14x1,5	14,3	331
14x2,5	16,0	473
19x1	14,7	333
19x1,5	15,8	430
19x2,5	17,7	616
KVVGz		
4x1	8,0	97
4x1,5	9,2	135
4x2,5	10,1	180
4x4	11,7	265
4x6	12,9	350
5x1	9,3	130
5x1,5	9,9	160
5x2,5	10,9	216
5x4	12,6	320
5x6	14,0	430

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
AKVVG		
4x2,5	9,9	110
4x4	11,5	150
4x6	13,0	180
4x10	15,6	270
7x2,5	11,6	155
7x4	13,7	215
7x6	15,1	273
7x10	19,0	440
10x2,5	14,6	210
10x4	17,2	300
10x6	19,6	390
10x10	25,0	630
14x2,5	15,5	266
19x2,5	17,5	339
AKVVGz		
4x4	11,5	170
4x6	13,0	210
4x10	15,6	320
5x4	12,6	201
5x6	13,9	252
5x10	17,1	390

KVVGng(A)/AKVVGng(A)/KVVGzng(A)/AKVVGzng(A)

The cables meet the requirements of national standard
GOST 1508-78, Specs. 3500-001-46671337-2015

Application

Control cables are designed for fixed connection to electric devices, machines and assemblies of electric distribution devices rated for alternating voltage up to 660 V and frequency up to 100Hz or for fixed voltage up to 1000 V.

Construction

Conductor:

Insulation:

Stranding:

Filler:

Outer sheath :

Technical data

Operating voltage

Operating temperature range

Relative air humidity at the temperature up to + 35°C

Assembling temperature, not low

Bending radius of cable while installation and assembly:

for cables with outer diameter 10 mm:

for cables with outer diameter 10-25 mm:

Service life considering restrictions for the rules of assembly, operating and storage conditions is not less than 15 years, while installation in buildings, channels, tunnels is not less than 25 years.

Guaranty service life from the date of commissioning



copper - KVVGng(A), KVVGzng(A);
aluminum – AKVVGng(A),
AKVVzGng(A).

PVC plasticate of low flammability.

insulated solid circular conductors are
stranded to form a core.

KVVGzng(A)/AKVVGzng(A) - the layer
of talc between insulation and inner
sheath for providing the flexibility of
conductors during the exploitation and
for dividing the cables.

PVC plasticate of low flammability

0,66 kV

from -50°C to +50°C

98%

-15°C

not less than 6 outer cable diameters

not less than 3 outer cable diameters (at 0°C)

not less than 4 outer cable diameters (at 0°C)

3 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
KVVGng(A)		
4x1	8,0	88
4x1,5	9,2	122,0
4x2,5	10,1	167
4x4	11,7	241
4x6	12,9	329
5x1	9,3	125
5x1,5	9,9	155
5x2,5	10,9	209
7x1	10	155
7x1,5	10,7	189
7x2,5	11,8	265
7x4	13,9	386
7x6	15,4	527
10x1	12,3	208
10x1,5	13,2	259
10x2,5	14,8	365
10x4	17,5	538
10x6	19,9	759
14x1	13,3	266
14x1,5	14,3	336
14x2,5	16,0	479
19x1	14,7	339
19x1,5	15,8	435
19x2,5	17,7	619
KVVGzng(A)		
4x1	8,0	100
4x1,5	9,2	139
4x2,5	10,1	185
4x4	11,7	270
4x6	12,9	355
5x1	9,3	135
5x1,5	9,9	165
5x2,5	10,9	219
5x4	12,6	325
5x6	14,0	435

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
AKVVGng(A)		
4x2,5	9,9	115
4x4	11,5	155
4x6	13,0	185
4x10	15,6	275
7x2,5	11,6	160
7x4	13,7	219
7x6	15,1	279
7x10	19,0	445
10x2,5	14,6	215
10x4	17,2	305
10x6	19,6	395
10x10	25,0	635
14x2,5	15,5	269
19x2,5	17,5	343
AKVVGzng(A)		
4x4	11,5	175
4x6	13,0	215
4x10	15,6	325
5x4	12,6	209
5x6	13,9	259
5x10	17,1	395

KVVGng(A)-LS/AKVVGng(A)-LS/KVVGzng(A)-LS/AKVVGzng(A)-LS

The cables meet the requirements of national standard
GOST 1508-78, Specs. 3500-001-46671337-2015

Analogues

According to purpose and application:
KVVGzng(A)-LS - NYY Flame Retardant Low Smoke.

Application

Control cables are designed for fixed connection to electric devices, machines and assemblies of electric distribution devices rated for alternating voltage up to 660 V and frequency up to 100Hz or for fixed voltage up to 1000 V.

Construction

Conductor:

Insulation:

Stranding:

Filler:

Outer sheath :

Technical data

Operating voltage
Operating temperature range
Relative air humidity at the temperature up to + 35°C
Assembling temperature, not low
Bending radius of cable while installation and assembly:
for cables with outer diameter 10 mm:
for cables with outer diameter 10-25 mm:

Service life

Guaranty service life from the date of commissioning



copper - KVVGng(A)-LS,
KVVGzng(A)-LS;
aluminum – AKVVGng(A)-LS,
AKVVGzng(A)-LS.

low smoke and gas emission PVC plasticate
of low flammability.

insulated solid circular conductors are
stranded to form a core.

KVVGzng(A)-LS/AKVVGzng(A)-LS - the
layer of talc between insulation and inner
sheath for providing the flexibility of
conductors during the exploitation and for
dividing the cables.

the cable sheath with low smoke and gas
emission PVC plasticate of low flammability
is laid under the stranding solid circular
conductors. It circularizes the cross
section of the cable.

0,66 kV

from -50°C to +50°C

98%

-15°C

not less than 6 outer cable diameters
not less than 3 outer cable diameters (at 0°C)
not less than 4 outer cable diameters (at 0°C)

considering restrictions for the rules of
assembly, operating and storage conditions
is not less than 15 years, while installation in
buildings, channels, tunnels is not less than 25
years.

3 years

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
KVVGng(A)-LS		
4x1	8,0	99
4x1,5	9,2	130,0
4x2,5	10,1	175
4x4	11,7	255
4x6	12,9	339
5x1	9,3	128
5x1,5	9,9	158
5x2,5	10,9	215
7x1	10	160
7x1,5	10,7	200
7x2,5	11,8	275
7x4	13,9	400
7x6	15,4	542
10x1	12,3	216
10x1,5	13,2	270
10x2,5	14,8	379
10x4	17,5	559
10x6	19,9	780
14x1	13,3	276
14x1,5	14,3	350
14x2,5	16,0	492
19x1	14,7	353
19x1,5	15,8	450
19x2,5	17,7	641
AKVVGng(A)-LS		
4x2,5	9,9	120
4x4	11,5	160
4x6	13,0	200
4x10	15,6	293
7x2,5	11,6	170
7x4	13,7	230
7x6	15,1	295
7x10	19,0	470
10x2,5	14,6	230
10x4	17,2	320
10x6	19,6	425
10x10	25,0	676
14x2,5	15,5	290
19x2,5	17,5	362

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
KVVGzng(A)-LS		
4x1	8,0	105
4x1,5	9,2	145
4x2,5	10,1	192
4x4	11,7	275
4x6	12,9	367
5x1	9,3	139
5x1,5	9,9	170
5x2,5	10,9	229
5x4	12,6	335
5x6	14,0	450
AKVVzGng(A)-LS		
4x4	11,5	180
4x6	13,0	225
4x10	15,6	340
5x4	12,6	219
5x6	13,9	272
5x10	17,1	420

KPPGng(A)-HF

The cables meet the requirements of national standard GOST 31996, Specs. 3500-005-46671337-2015

Analogue

According to purpose and application:
KPPGng(A)-HF - NHXH.

Application

Control cables are designed for fixed connection to electric devices, machines and assemblies of electric distribution devices rated for alternating voltage up to 660 V and frequency up to 50Hz.

Construction

Conductor:

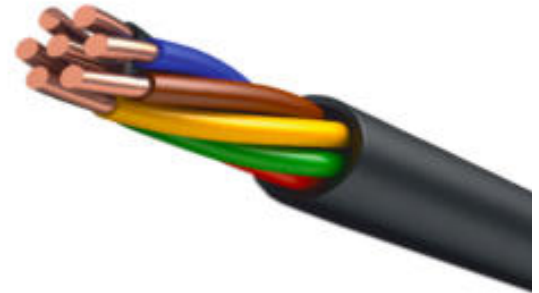
Insulation:

Stranding:

Sheath:

Technical data

Operating voltage
Operating temperature range
Assembling temperature
Maximum continuous permissible operating temperature of cores
Maximum possible conductors heating temperature in reset condition
Maximum possible conductors heating temperature in short circuit
Duration of short circuit of power cable, not more
Duration of power cable operating in reset condition shall not be more than 8 hours per day and not more than 1 000 hours for all service life
Maximum possible conductors heating temperature in short circuit according to non-combustion condition.
Bending radius of cable while installation and assembly
- single-core:
- multi-cores:
Service life, not less
Guaranty service life from the date of commissioning



copper, single- or multi-wires
halogen-free polymer compound.
insulated solid circular conductors are stranded to form a core.
halogen-free polymer compound.

0,66; 1 kV
from -50 °C to +50 °C
not low -15°C
+70°C
+90°C
160°C
5 seconds
350°C
not less than 10 outer cable diameters
not less than 7,5 outer cable diameters
not more than 30 years
5 years

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
KPPGng(A)-HF		
4x1,5	9,0	128
4x2,5	10,0	172
4x4	11,3	248
4x6	12,9	333
5x1,5	9,9	155
5x2,5	10,9	209
7x1,5	10,7	193
7x2,5	11,8	266
7x4	13,9	396
7x6	15,4	541
10x1,5	13,0	265
10x2,5	14,5	369
10x4	17,1	549
10x6	19,6	779
14x1,5	13,9	346
14x2,5	15,9	489
19x1,5	15,6	446
19x2,5	17,6	640

SIP-2

The wires meet the requirements of national standard GOST 31946, Specs. 3553-018-46671337-2014

Analogues

According to purpose and application:
SIP-2 - AXKA

Application

Wires are intended for electric power transmission in aerial electric power lines for voltage up to 0,6/1 kV and nominal frequency up to 50 Hz.

Construction

Phase conductor:

Neutral messenger:

Insulation of phase conductors and a neutral messenger:

Stranding:

Technical data

Operating voltage	0,66/1 kV
Operating temperature range	from -60 °C to +50 °C
Minimum temperature of Installation and assembly without preheating	-20 °C
Maximum continuous permissible operating temperature of cores	+90°C
Maximum possible conductors heating temperature in reset condition	+130°C
Maximum possible conductors heating temperature in short circuit	+250°C
Duration of short circuit of power cable, not more	5 seconds
Bending radius of cable while installation and assembly	10 outer cable diameters
Service life, not less	40 years
Guaranty service life from the date of commissioning	5 years
Cable storage conditions	outdoor area is not more than 2 years under cover is not more than 5 years Indoor area is not more than 10 years



aluminium, multi-wires, round-shaped and compacted. The number of conductors is from 1 to 4.

aluminium alloy multi-wires, round-shaped and compacted.

light stable cross-linked PE. Insulated conductors carry identification coloring or numerical marking.

has a right direction. Insulated phase conductors are stranded around a neutral messenger.

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
SIP-2		
1x16+1x25	15	161
1x16+1x25+1x16	16	226
1x16+1x25+2x16	18	290
1x16+1x25+1x25	17	250
1x16+1x25+2x25	19	339
1x16+1x25+1x35	18	279
1x16+1x25+2x35	20	397
2x16+1x25	16	226
2x16+1x25+1x16	18	290
2x16+1x25+2x16	20	355
2x16+1x25+1x25	18	315
2x16+1x25+2x25	21	404
2x16+1x25+1x35	19	344
2x16+1x25+2x35	22	462
3x16+1x25	18	290
3x16+1x25+1x16	20	355
3x16+1x25+2x16	22	420
3x16+1x25+1x25	20	379
3x16+1x25+2x25	23	468
3x16+1x25+1x35	21	408
3x16+1x25+2x35	24	526
3x16+1x35	18	320
3x16+1x35+1x16	20	385
3x16+1x35+2x16	22	450
3x16+1x35+1x25	21	409
3x16+1x35+2x25	23	498
3x16+1x35+1x35	21	438
3x16+1x35+2x35	25	556
3x16+1x54,6	20	395
3x16+1x54,6+1x16	22	460
3x16+1x54,6+2x16	24	525
3x16+1x54,6+1x25	22	484
3x16+1x54,6+2x25	25	573
3x16+1x54,6+1x35	23	513
3x16+1x54,6+2x35	26	631
4x16+1x25	20	355
4x16+1x25+1x16	22	420
4x16+1x25+2x16	22	485
4x16+1x25+1x25	22	445
4x16+1x25+2x25	23	533
4x16+1x25+1x35	23	473
4x16+1x25+2x35	24	591
1x25+1x25	17	185
1x25+1x25+1x16	17	250
1x25+1x25+2x16	18	315
1x25+1x25+1x25	18	267

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
1x25+1x25+2x25	20	349
1x25+1x25+1x35	18	303
1x25+1x25+2x35	21	421
1x25+1x35	18	215
1x25+1x35+1x16	18	279
1x25+1x35+2x16	19	344
1x25+1x35+1x25	19	304
1x25+1x35+2x25	21	393
1x25+1x35+1x35	19	333
1x25+1x35+2x35	22	451
3x25+1x25	20	363
3x25+1x25+1x16	22	428
3x25+1x25+2x16	24	493
3x25+1x25+1x25	22	452
3x25+1x25+2x25	25	541
3x25+1x25+1x35	23	481
3x25+1x25+2x35	26	599
3x25+1x35	21	393
3x25+1x35+1x16	22	457
3x25+1x35+2x16	24	522
3x25+1x35+1x25	23	482
3x25+1x35+2x25	25	571
3x25+1x35+1x35	23	511
3x25+1x35+2x35	26	529
3x25+1x50	22	437
3x25+1x50+1x16	23	502
3x25+1x50+2x16	25	567
3x25+1x50+1x25	24	526
3x25+1x50+2x25	26	615
3x25+1x50+1x35	24	555
3x25+1x50+2x35	27	673
3x25+1x54,6	22	468
3x25+1x54,6+1x16	24	532
3x25+1x54,6+2x16	26	597
3x25+1x54,6+1x25	24	557
3x25+1x54,6+2x25	27	646
3x25+1x54,6+1x35	25	586
3x25+1x54,6+2x35	28	704
4x25+1x35	23	482
4x25+1x35+1x16	25	546
4x25+1x35+2x16	24	611
4x25+1x35+1x25	25	571
4x25+1x35+2x25	25	660
4x25+1x35+1x35	26	600
4x25+1x35+2x35	26	718
4x25+1x54,6	24	557
4x25+1x54,6+1x16	26	621

Self-supporting insulated and sheathed wires for aerial electric mains

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>	<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
4x25+1x54,6+2x16	25	686	3x50+1x70	28	723
4x25+1x54,6+1x25	27	646	3x50+1x70+1x16	29	788
4x25+1x54,6+2x25	26	735	3x50+1x70+2x16	30	853
4x25+1x54,6+1x35	27	675	3x50+1x70+1x25	29	812
4x25+1x54,6+2x35	27	793	3x50+1x70+2x25	31	901
3x35+1x35	22	480	3x50+1x70+1x35	30	841
3x35+1x35+1x16	24	544	3x50+1x70+2x35	32	959
3x35+1x35+2x16	26	609	3x50+1x95	29	791
3x35+1x35+1x25	25	569	3x50+1x95+1x16	29	855
3x35+1x35+2x25	27	658	3x50+1x95+2x16	31	920
3x35+1x35+1x35	25	598	3x50+1x95+1x25	30	880
3x35+1x35+2x35	28	716	3x50+1x95+2x25	32	969
3x35+1x50	23	524	3x50+1x95+1x35	31	909
3x35+1x50+1x16	25	589	3x50+1x95+2x35	33	1027
3x35+1x50+2x16	27	654	3x70+1x54,6	30	883
3x35+1x50+1x25	25	613	3x70+1x54,6+1x16	31	948
3x35+1x50+2x25	28	702	3x70+1x54,6+2x16	32	1013
3x35+1x50+1x35	26	642	3x70+1x54,6+1x25	32	972
3x35+1x50+2x35	29	760	3x70+1x54,6+2x25	34	1061
3x35+1x54,6	24	555	3x70+1x54,6+1x35	32	1001
3x35+1x54,6+1x16	25	619	3x70+1x54,6+2x35	35	1119
3x35+1x54,6+2x16	27	684	3x70+1x70	31	923
3x35+1x54,6+1x25	26	644	3x70+1x70+1x16	32	987
3x35+1x54,6+2x25	28	733	3x70+1x70+2x16	33	1052
3x35+1x54,6+1x35	27	673	3x70+1x70+1x25	32	1012
3x35+1x54,6+2x35	29	791	3x70+1x70+2x25	34	1101
3x35+1x70	25	594	3x70+1x70+1x35	33	1041
3x35+1x70+1x16	26	659	3x70+1x70+2x35	35	1159
3x35+1x70+2x16	27	723	3x70+1x95	32	990
3x35+1x70+1x25	26	683	3x70+1x95+1x16	32	1055
3x35+1x70+2x25	29	772	3x70+1x95+2x16	34	1119
3x35+1x70+1x35	27	712	3x70+1x95+1x25	33	1079
3x35+1x70+2x35	30	830	3x70+1x95+2x25	35	1168
3x50+1x50	26	654	3x70+1x95+1x35	34	1108
3x50+1x50+1x16	28	719	3x70+1x95+2x35	36	1226
3x50+1x50+2x16	29	783	3x95+1x70	34	1147
3x50+1x50+1x25	28	743	3x95+1x70+1x16	34	1212
3x50+1x50+2x25	30	832	3x95+1x70+2x16	35	1277
3x50+1x50+1x35	29	772	3x95+1x70+1x25	35	1236
3x50+1x50+2x35	31	890	3x95+1x70+2x25	36	1325
3x50+1x54,6	27	684	3x95+1x70+1x35	35	1265
3x50+1x54,6+1x16	28	749	3x95+1x70+2x35	37	1383
3x50+1x54,6+2x16	30	814	3x95+1x95	35	1214
3x50+1x54,6+1x25	29	773	3x95+1x95+1x16	35	1279
3x50+1x54,6+2x25	31	862	3x95+1x95+2x16	36	1344
3x50+1x54,6+1x35	29	802	3x95+1x95+1x25	36	1303
3x50+1x54,6+2x35	32	920	3x95+1x95+2x25	37	1392

<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
3x95+1x95+1x35	36	1332
3x95+1x95+2x35	38	1450
3x95+1x120	36	1287
3x95+1x120+1x16	36	1352
3x95+1x120+2x16	37	1416
3x95+1x120+1x25	36	1376
3x95+1x120+2x25	38	1465
3x95+1x120+1x35	37	1405
3x95+1x120+2x35	39	1523
3x120+1x95	37	1426
3x120+1x95+1x16	37	1491
3x120+1x95+2x16	38	1555
3x120+1x95+1x25	38	1515
3x120+1x95+2x25	39	1604
3x120+1x95+1x35	38	1544
3x120+1x95+2x35	40	1662
3x120+1x120	38	1498
3x120+1x120+1x16	38	1563
3x120+1x120+2x16	38	1628
3x120+1x120+1x25	38	1587
3x120+1x120+2x25	39	1676
3x120+1x120+1x35	39	1616
3x120+1x120+2x35	41	1734
3x150+1x95	40	1714
3x150+1x95+1x16	40	1779
3x150+1x95+2x16	41	1844
3x150+1x95+1x25	41	1803
3x150+1x95+2x25	42	1892
3x150+1x95+1x35	41	1832
3x150+1x95+2x35	43	1950
3x150+1x120	41	1787
3x150+1x120+1x16	41	1852
3x150+1x120+2x16	41	1916
3x150+1x120+1x25	41	1876
3x150+1x120+2x25	42	1965
3x150+1x120+1x35	42	1905
3x150+1x120+2x35	43	2023

SIP-3

The wires meet the requirements of national standard
GOST 31946, Specs. 3553-018-46671337-2014

Analogue

According to purpose and application:
SIP-3 - SAX, PAS.

Application

Wires are intended for electric power transmission in
aerial electric power lines for voltage up to 20 kV for
networks rated for voltage 10, 15 and 20 kV and nominal
frequency up to 50 Hz.

Construction

Conductor:

Insulation:

Stranding:

Technical data

Operating voltage	20kV
Operating temperature range	from -60 °C to +50 °C
Minimum temperature of Installation and assembly without preheating	-20 °C
Maximum continuous permissible operating temperature of cores	+90°C
Maximum possible conductors heating temperature in reset condition	+130°C
Maximum possible conductors heating temperature in short circuit	+250°C
Duration of short circuit of power cable, not more	5 seconds
Bending radius of cable while installation and assembly	10 outer cable diameters
Service life, not less	40 years
Guaranty service life from the date of commissioning	5 years
Cable storage conditions	outdoor area is not more than 2 years under cover is not more than 5 years Indoor area is not more than 10 years



<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
SIP-3		
1x35	11	159
1x50	13	195
1x70	14	263
1x95	16	336
1x120	17	430
1x150	19	524

SIP-4

The wires meet the requirements of national standard GOST 31946, Specs. 3553-018-46671337-2014

Analogues

According to purpose and application:
SIP-4 - NFA2X, AsXsn, ABC, TORSADE.

Application

Wires are intended for electric power transmission in aerial electric power lines for voltage up to 0,6/1kV and nominal frequency up to 50 Hz.

Construction

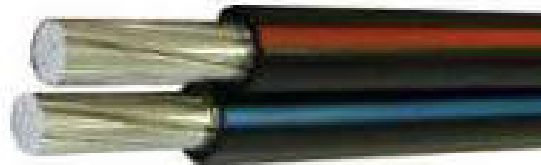
Phase conductors:

Insulation of phase conductor:

Stranding:

Technical data

Operating voltage	0,6/1 kV
Operating temperature range	from -60 °C to +50 °C
Minimum temperature of Installation and assembly without preheating	-20 °C
Maximum continuous permissible operating temperature of cores	+90°C
Maximum possible conductors heating temperature in reset condition	+130°C
Maximum possible conductors heating temperature in short circuit	+250°C
Duration of short circuit of power cable, not more	5 seconds
Bending radius of cable while installation and assembly	10 outer cable diameters
Service life, not less	40 years
Guaranty service life from the date of commissioning	5 years
Cable storage conditions	outdoor area is not more than 2 years under cover is not more than 5 years Indoor area is not more than 10 years



<i>Number and nominal cross section, pcs x mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
SIP-4		
2x16	14	135
2x25	17	183
2x35	19	241
2x50	22	328
2x70	26	460
2x95	29	610
2x120	31	751
2x150	35	944
3x16	15	200
3x25	18	272
3x35	20	359
3x50	24	489
3x70	28	688
3x95	31	913
3x120	34	1124
3x150	38	1413
4x16	17	264
4x25	20	361
4x35	22	477
4x50	26	650
4x70	31	916
4x95	35	1215
4x120	38	1497
4x150	43	1882

PV1/PV2/PV3/PV4/APV

The wires meet the requirements of national standard GOST 26445, Specs. 3500-016-46671337-2011.

Analogues

According to purpose and application:

PV-1 - H07V-U H07V-R;

PV-3 - H07V-R, H05V-R, H05V-K , LY, LgY;

PV-4 - H07V-K,H07V3-K.

Application

The wires are designed for power transmission and distribution in stationary equipment, for assembling the electrical equipment, machines, mechanisms, machine tools for rated voltage up to 450 V and frequency up to 400Hz or constant voltage up to 1000 V.

Construction

Conductor:

Insulation:

Technical data

Operating voltage

Operating temperature range

Cable Installation and assembly without preheating

Relative air humidity at the temperature up to + 35°C

Maximum continuous permissible operating temperature of cores

Bending radius of cable while installation and assembly

PV3, PV4

APV, PV1, PV2

Guaranty service life:

Service life

Cable storage conditions



copper - PV1/PV2/PV3/PV4.

aluminium - APV.

PVC plasticate.

450 V

from -50°C to +65°C

not low -15°C

98 %

70°C

not more than 5 outer cable diameters

not more than 10 outer cable diameter

2 years

not less than 15 years

close or other premises with natural ventilation
without artificially regulated climatic conditions.

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
APV		
2,5	3,9	14
4	4,4	21
6	4,9	28
10	6,4	46
16	8,0	66
25	9,8	105
35	11,0	135
50	13,0	186
70	15,0	260
95	17,0	350
120	19,0	420
150	22,5	511
PV1		
1,5	3,3	19
2,5	3,9	29
4	4,4	45
		63
		106
		169
		260
		350
		480
		670
950		
-	-	-
6	4,9	63
10	6,4	106
16	8	169
25	9,8	260
35	11	350
50	13	480
70	15	670
95	17	950
120	-	-
PV2		
16	8	168
25	9,8	260
35	11	350
50	13	480
70	15	670
95	17	950
120	19	1115
150	22,5	1435

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
PV3		
0,75	3	10,7
1	3,3	14
1,5	3,6	19
2,5	4,5	29
4	5	45
6	6,7	65
10	8	107
16	9	62
25	11,5	245
35	12,8	336
50	14,8	476
70	17	660
95	19,5	882
120	23	1100
150	25,5	1455
PV4		
0,75	3	10,7
1	3,3	14
1,5	3,6	19
2,5	4,5	29
4	5	45
6	6,7	65
10	8	107
16	9	62
25	11,5	245
35	12,8	336
50	14,8	476
70	17	660
95	19,5	882
120	23	1100
150	25,5	1455

PuV/PuGV/PuVV/PuGVV

The wires meet the requirements of national standard GOST31947, Specs. 16-705.501-2010

Analogues

According to purpose and application:

PuV - HO5V-U, HO7V-U;

PuGV- HO5V-K, HO7V-K, H07V-R, H05V-R, LY.

Application

The wires are designed for electrical installations for fixed installation in lighting and power systems, as well as for assembling the electrical equipment, machines, mechanisms, machine tools, indoor electrical settings for alternating voltage up to 450/750 V and frequency up to 400Hz.

Construction

Conductor:

Insulation:

Core:

Technical data

Operating voltage

Operating temperature range

Cable Installation and assembly without preheating

Maximum continuous permissible operating temperature of cores

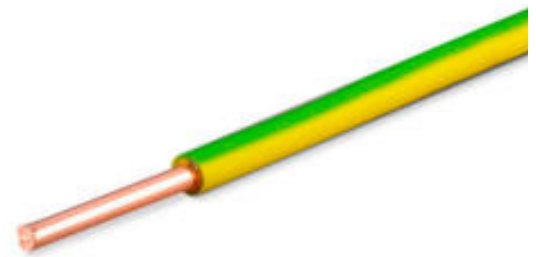
Bending radius of cable while installation and assembly

PuV, PuVV

PuGVV, PuGV

Service life:

Guaranty service life from the date of commissioning



copper soft wire.

PVC plasticate.

PuV - single-wire core.

PuVV - from 1 to 3 cores.

PuGV - flexible single-wire core.

PuGVV - flexible single-wire core.

450/750 V

from -50°C to +65°C

not low -15°C

70°C

10 outer cable diameters

5 outer cable diameters

not less than 20 years

3 years

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
PuV		
1,5	3,2	20,2
2,5	3,9	32,0
4	4,4	47,0
6	5,0	66,8
10	6,4	111
16	7,8	180
25	9,7	283
35	10,9	381
50	12,8	517
70	14,6	728
95	17,1	1005
120	18,8	1252
150	20,9	1541
PuGV		
0,75	2,6	12,6
1,0	2,8	15,4
1,5	3,4	22,0
2,5	4,1	34,9
4	4,8	51,1
6	5,3	74,2
10	6,8	122
16	8,1	184
25	10,2	280
35	11,7	397
50	13,9	558
70	16,0	761
95	18,2	1026
120	20,2	1267
150	22,5	1584

Number and nominal cross section, pcs x mm ²	External diameter, mm	Design weight of 1 km, kg
PuVV		
1x1,5	4,8	32,8
1x2,5	5,7	49,2
1x4	6,3	66,2
1x6	6,9	88,1
1x10	8,3	137
1x16	10,2	217
1x25	12,2	328
1x35	13,5	432
1x50	15,8	583
1x70	17,8	802
1x95	20,5	1092
1x120	22,3	1347
1x150	24,3	1703
2x1,5	4,8x8,2	47,2
3x1,5	4,8x11,4	56,8
2x2,5	5,7x9,6	67,1
3x2,5	5,7x13,7	91,5
2x4	6,3x10,7	139
3x4	6,3x15,1	191
PuVV		
2x4	6,3x10,7	139
3x4	6,3x15,1	191
PuGVV		
1,5	5,4	35,4
2,5	5,9	50,8
4	7,1	71,7
6	8,0	99,6
10	10,2	154
16	11,3	226
25	13,8	330
35	15,2	454
50	18,0	633
70	20,2	846
95	22,7	1123
120	25,2	1378
150	28,3	1731

APV-As

The wires meet the requirements of national standard
GOST 22483, Specs. 3500-010-46671337-2016

Analogues

According to purpose and application:
APV-As - H(Al)07VH2-U

Application

The wires are designed for electrical installations for fixed installation in lighting and power systems, as well as for assembling the electrical equipment, machines, mechanisms, machine tools, indoor electrical settings for alternating voltage up to 450/750 V and frequency up to 400Hz.

Construction

Conductor:

Insulation:

Technical data

Operating voltage

Operating temperature range

Cable Installation and assembly without preheating

Relative air humidity at the temperature up to + 35°C

Maximum continuous permissible operating temperature of cores

Bending radius of cable while installation and assembly

Service life:

Guaranty service life from the date of commissioning

Cable storage conditions



Al-Zr alloy.

PVC plasticate.

450 V

from -50°C to +65°C

not low -15°C

98 %

70°C

not more than 10 outer cable diameters

not less than 25 years

5 years

indoor or other areas with natural ventilation without artificially regulated climatic conditions.

<i>Nominal cross section, mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
APV-As		
2,5	3,9	14
4	4,4	21
6	4,9	28
10	6,4	46
16	8,0	65
25	9,8	103
35	11,0	134
50	13,0	182
70	15,0	257
95	17,0	345
120	19,0	400
150	22,5	509

PuVng(A)-LS, PuGVng(A)-LS, PuVVng(A)-LS, PuGVVng(A)-LS

The wires meet the requirements of national standard
GOST 31947, Specs. 3551-019-46671337-2012

Analogues

According to purpose and application:

PuGVng(A)-LS - H07V2-R Flame Retardant Low Smoke;

PuGVVng(A)-LS - H07VV2H2-K Flame Retardant Low
Smoke.

Application

The wires are designed for electrical installations for
fixed installation in lighting and power systems, as well
as for assembling the electrical equipment, machines,
mechanisms, machine tools, indoor electrical settings for
alternating voltage up to 450/750 V and frequency up to
400Hz or for fixed voltage up to 1000 V including.

Construction

Core:

Insulation:

Sheath:

Technical data

Operating voltage

Operating temperature range

Cable Installation and assembly without preheating

Maximum continuous permissible operating temperature
of cores

Bending radius of cable while installation and assembly

PuVng(A)-LS, PuVVng(A)-LS,

PuGVVng(A)-LS, PuGVng(A)-LS,

Service life:

Guaranty service life from the date of commissioning



PuVng(A)-LS - single -wire core.

PuGVng(A)-LS – flexible single-wire core

PuVVng(A)-LS - from 1 to 3 cores.

PuGVVng(A)-LS – flexible single-wire
core.

PVC plasticate of low flammability.

PVC plasticate of low flammability.

450/750 V

from -50°C to +65°C

not low -15°C

70°C

10 outer cable diameters

5 outer cable diameters

15 years

3 years

Nominal cross section, mm ²	External diameter, mm	Design weight of 1 km, kg
PuVng(A)-LS		
1,5	3,2	20,0
2,5	3,9	30,5
4	4,4	45,5
6	5,0	64,5
10	6,4	105,0
16	7,8	165,0
25	9,7	257,5
35	10,9	346,3
50	12,8	471,0
70	14,6	659,4
95	17,1	911,5
120	18,8	1125,3
150	20,9	1411,5
PuGVng(A)-LS		
0,75	2,7	11,2
1,0	3,0	14,0
1,5	3,5	19,4
2,5	4,6	32,0
4	5,2	45,5
6	6,1	66,0
10	7,8	110,3
16	9,1	163,5
25	10,9	250,5
35	11,7	341,4
50	15,2	414,0
70	17,3	588,2
95	19,9	894,0
120	21,9	1113,5
150	24,5	1471,0

Nominal cross section, mm ²	External diameter, mm	Design weight of 1 km, kg
PuVVng(A)-LS		
1x1,5	4,8	31,0
1x2,5	5,7	46,2
1x4	6,3	62,5
1x6	6,9	83,4
1x10	8,6	128,4
1x16	10,2	197,0
1x25	12,2	296,5
1x35	13,5	390,7
1x50	15,8	528,5
1x70	17,8	724,2
1x95	20,5	986,0
1x120	22,3	1205,3
1x150	24,3	1522,0
2x1,5	4,8x8,2	57,3
3x1,5	4,8x11,4	87,0
2x2,5	5,7x 9,6	120,3
3x2,5	5,7x13,5	85,0
2x4	6,3x10,7	129,0
3x4	6,3x15,1	179,0
PuGVVng(A)-LS		
0,75	4,4	23
1,0	4,5	24,2
1,5	5,4	31,0
2,5	5,9	48,3
4	7,1	64,0
6	8,0	86,5
10	10,2	137,0
16	11,3	200,2
25	13,8	294,0
35	15,2	391,0
50	18,0	549,3
70	20,2	744,0
95	22,7	979,4
120	25,2	1206,0
150	28,3	1601,0

APVng(A)-LS-As

The wires meet the requirements of national standard
GOST 22483, Specs. 3500-010-46671337-2016

Analogues

According to purpose and application:
APVng(A)-LS-As - H(AI)07VH2-U Flame Retardant Low
Smoke

Application

The wires are designed for power transmission and
distribution in stationary equipment, for assembling the
electrical equipment, machines, mechanisms, machine
tools for rated voltage up to 450 V and frequency up to
400Hz or constant voltage up to 1000 V.

Construction

Conductor:

Insulation:

Technical data

Operating voltage

Operating temperature range

Cable Installation and assembly without preheating

Relative air humidity at the temperature up to + 35°C

Maximum continuous permissible operating temperature
of cores

Bending radius of cable while installation and assembly

Service life

Guaranty service life from the date of commissioning

Cable storage conditions



Al-Zr alloy.

low smoke and gas emission PVC
plasticate of low flammability.

450 V

from -50°C to +65°C

not low -15°C

98 %

70°C

not more than 10 outer cable diameters

not less than 25 years

5 years

indoor or othe areas with natural
ventilation without artificially regulated
climatic conditions.

<i>Nominal cross section, mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
APVng(A)-LS-As		
2,5	3,9	15
4	4,4	22
6	4,9	29
10	6,4	49
16	8,0	69
25	9,8	108
35	11,0	141
50	13,0	191
70	15,0	267
95	17,0	359
120	19,0	414
150	22,5	528

PVS

The wires meet the requirements of national standard GOST 7399-97

Analogues

According to purpose and application:
PVS - HO5VV-F, H03VV-F, OMY

Application

The wires are designed for assembling the electrical equipment, devices for household use and for similar use to power systems for nominal alternating voltage up to 380/660 V.

Construction

Conductor:

Insulation:

Stranding:

Sheath:

Technical data

Operating voltage

Operating temperature range

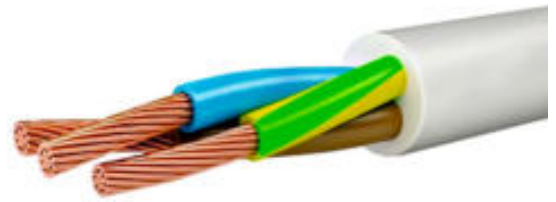
Maximum continuous permissible operating temperature of cores

Bending radius of cable while installation and assembly

Service life:

Guaranty service life from the date of commissioning

Cable storage conditions



copper, round-shaped, multi-wires.

PVC plasticate.

insulated solid 2, 3, 4 and 5-wires
conductors are stranded to form a core.

PVC plasticate fills the interstices between the conductors. There is the layer of talc between insulation and inner sheath for providing the flexibility for conductors during the exploitation and for dividing the cables.

380/660 V

from -25°C to +40°C

70°C

not less than 7,5 outer cable diameters

10 years

2 years

Indoor or other areas with natural ventilation without artificially regulated climatic conditions.

<i>Nominal cross section, mm²</i>	<i>External diameter, mm</i>	<i>Design weight of 1 km, kg</i>
PVS		
2x0,75	7,2	51
3x0,75	7,6	63
4x0,75	8,3	80
5x0,75	9,3	99
2x1	7,5	60
3x1	8,0	73
4x1	9,0	94
5x1	9,8	114
2x1,5	8,6	79
3x1,5	9,4	101
4x1,5	10,5	133
5x1,5	11,6	167
2x2,5	10,6	127
3x2,5	11,4	158
4x2,5	12,5	200
5x2,5	13,9	255

KSV-K

The cables meet the requirements of national standard GOST 22483, Specs. 3500-003-46671337-2008

Application

Cable is designed for welding machines rated for nominal voltage of direct current up to 40 V.

Construction

Main conductor:

Insulation:

Upper twist:

Sheath:

Nominal outer cable diameter:

Cable mark - 1x10+1x2,5

Technical data

Operating voltage

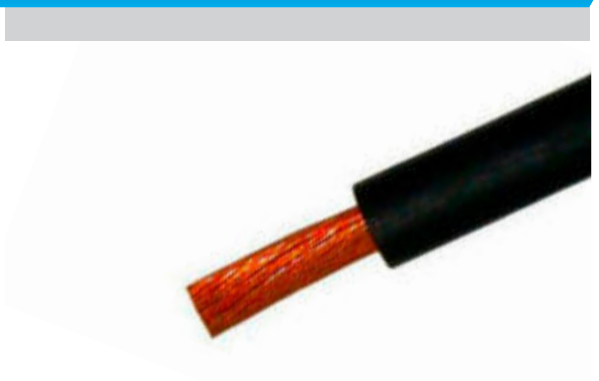
Operating temperature range

Bending radius of cable while installation and assembly

Service life

Guaranty service life from the date of commissioning

Cable storage conditions



cross section 2.5 mm²

thermoelastoplast or insulation rubber.

cross section 10 mm².

PVC plasticate of black color.

11,2 mm.

40 V

From -10°C to +40°C

10 outer cable diameters

7 years

1 years

Indoor or other areas with natural ventilation without artificially regulated climatic conditions.

ALUMINIUM WIRE ROD

PRODUCT DESCRIPTION

Obtained by continuous casting and rolling process
Composition: aluminium 99.7% and 99.5%

STANDARD PACKAGING

Weight: 2100 kg
Inner diameter: 54.00 cm
Outer diameter: 135.00 cm
Width: 87.00 cm
Pallet size: 110cm x 120 cm
Option: coils are tightly strapped with composite strips on wooden pallets, eye to the wall/eye to the sky

APPLICATION

Electrical products, steel deoxidizing

GENERAL INFORMATION

Complies with international standards: GOST 13843-78, ASTM B233, EN 1715



Grade	Temper	Tolerance on nominal diameter, %	Typical nominal diameter, mm	Limited deviation in circularity, %	Mechanical properties			Electrical properties (temperature : 20 °C)	
					Tensile strength, Rm, Mpa		Elongation typical A 100 mm, %	Resistivity, $\mu\Omega\cdot\text{cm}$	Conductivity, % IACS
					min.	max.			
EN AW-1370 (Al 99,7)/EN AW-1350 (Al 99,5)									
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H11	±5	9,5	3	80	95	25	2,785	61,9
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H11	±5	12	3	80	95	25	2,785	61,9
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H11	±5	14	3	80	95	25	2,785	61,9
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H11	±5	19	3	80	95	25	2,785	61,9
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H12	±5	9,5	3	95	110	20	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H12	±5	12	3	95	110	20	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H12	±5	14	3	95	110	20	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H12	±5	19	3	95	110	20	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H13	±5	9,5	3	105	120	16	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H13	±5	12	3	105	120	16	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H13	±5	14	3	105	120	16	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H13	±5	19	3	105	120	16	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H14	±5	9,5	3	115	130	14	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H14	±5	12	3	115	130	14	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H14	±5	14	3	115	130	14	2,801	61,5
EN AW-1370 (Al 99,7)/ EN AW-1350 (Al 99,5)	H14	±5	19	3	115	130	14	2,801	61,5

Al, % min	The content of impurities, % max												Others	
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ga	V	B	Remarks	Each	Total
	99,5	0,10	0,40	0,05	0,01	-	0,01	0,05	-	0,03	-	0,05	0,02V+Ti	0,03
99,7	0,10	0,25	0,02	0,01	0,02	0,01	0,04	-	0,03	-	0,02	0,02V+Ti	0,02	0,10

ALUMINIUM ALLOYS WIRE ROD

6101/6201

PRODUCT DESCRIPTION

Heat-treatable alloy
Principle alloying elements: magnesium and silicon
Standard diameter: 9.5mm
Tempers supplied: T1 (Heat-treated and naturally aged)

STANDARD PACKAGING

Weight: 2100 kg
Inner diameter: 54.00 cm
Outer diameter: 135.00 cm
Width: 87.00 cm
Pallet size: 110cm x 120 cm
Option: coils are tightly strapped with composite strips on wooden pallets, eye to the wall/eye to the sky

APPLICATION

Electrical products

GENERAL INFORMATION

Complies with international standards:
ASTM B233, EN 1715



Grade	Temper	Tolerance on nominal diameter, %	Typical nominal diameter, mm	Limited deviation in circularity, %	Mechanical properties			Electrical properties (temperature : 20 °C)	
					Tensile strength, Rm, Mpa		Elongation typical A 100 mm, %	Resistivity, $\mu\Omega\cdot\text{cm}$	Conductivity, % IACS
					min.	max.			
EN AW-6101/EN AW-6201									
EN AW-6101	T1	±5	9,5	3	190	-	17	3,5	49,2
EN AW-6201	T1	±5	9,5	3	205	-	17	3,6	47,8

Alloy	The content of impurities, % max											
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	B	Others		Al
										Each	Total	
EN AW-6101	0,3-0,7	0,50	0,1	0,03	0,35-0,8	0,03	0,1	-	0,06	0,03	0,10	the rest
EN AW-6201	0,5-0,9	0,50	0,1	0,03	0,6-0,9	0,03	0,1	0,15	0,06	0,03	0,10	the rest

ALUMINIUM SECTOR WIRE ROD

6101/6201

PRODUCT DESCRIPTION

Obtained by continuous casting and rolling process
Composition: aluminium 99,7% и 99,5%

STANDARD PACKAGING

Weight: 2100 kg
Inner diameter: 54.00 cm
Outer diameter: 135.00 cm
Width: 87.00 cm
Pallet size: 110cm x 120 cm
Option: coils are tightly strapped with composite strips on wooden pallets, eye to the wall/eye to the sky

APPLICATION

Electrical products

GENERAL INFORMATION

Complies with international standards:
ASTM B233, EN 1715



Mechanical and electrical properties

<i>Cross section</i>	<i>Central angle of sector</i>	<i>Height</i>	<i>Width</i>	<i>Ultimate tensile strength, not less (MPa)</i>	<i>Elongation, not less (%)</i>
240	120	14,5-15,5	24,7-25,3	83	25
240	90	16,3-17,3	23,1-23,7	83	25

The content of impurities, % max

<i>Al, % min</i>	<i>Si</i>	<i>Fe</i>	<i>Cu</i>	<i>Mn</i>	<i>Mg</i>	<i>Cr</i>	<i>Zn</i>	<i>Ti</i>	<i>Ga</i>	<i>V</i>	<i>B</i>	<i>Remarks</i>	<i>Others</i>	
													<i>Each</i>	<i>Total</i>
99,5	0,10	0,40	0,05	0,01	-	0,01	0,05	-	0,03	-	0,05	0,02V+Ti	0,03	0,10
99,7	0,10	0,25	0,02	0,01	0,02	0,01	0,04	-	0,03	-	0,02	0,02V+Ti	0,02	0,10



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