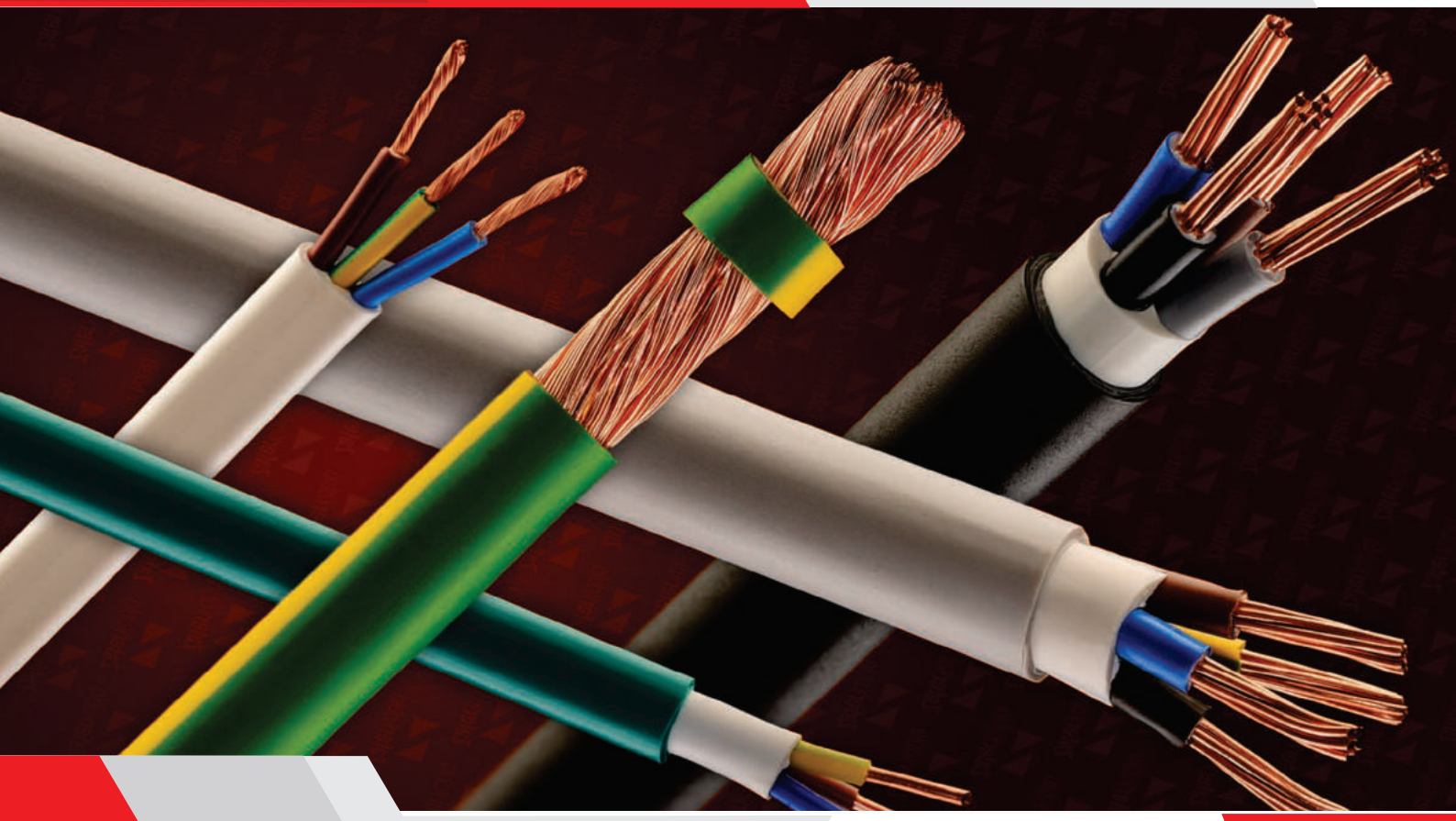
სკკაბელი
SAKCABLE



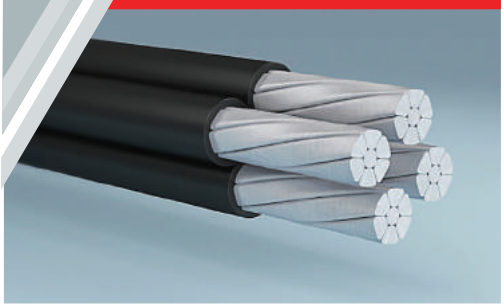
ADVANCING STANDARDS FORWARD


სპეკაზარი

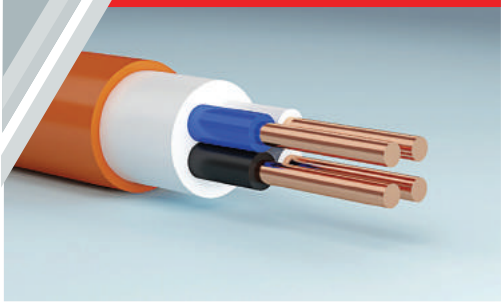
CONTENT

UNINSULATED

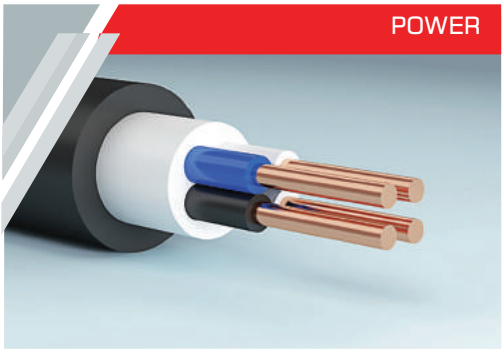
SELF-SUPPORTING



MOUNTING



POWER



CONTROL

ABOUT US

Dear Friends

We present you the next edition of the catalog by JSC SAKCABLE All products presented in it are manufactured in full compliance with international standards operating on cable products.

JSC SAKCABLE was founded at 1958. From 2006 the management of the factory has been handed over to the current administration, which has been re-manufactured with new types of equipment, modern technological processes, increased product range and capacity, improved quality. Since 2014, the automated system of German production of quality and precision has been activated, which enabled us to provide accurate protection of the parameters in the process of production.

On March 14, 2015, the company was awarded ISO 9001: 2008 Standard Certificate of Conformity, the company is a completed member of Quality Fund, holds a Quality Mark, Certificate of Quality and Production Management. Products are checked in the factory laboratory before being sent to the customer. (Accredited by the Accreditation Center of the Ministry of Economy of Georgia According to the requirements by SST, ISO/IEK 17025:2010)

At 2016 with the help of the program “Produce in Georgia” the company has been re-manufactured in full re-equipment. The factory was equipped with the modern type of machinery, which allowed us to produce the products under the latest international standard, such as ecologically clean halogen free cable.

Our shops are represented in all regions of Georgia. Besides cable production, there are various types of electric goods available, including such famous brands as: Schneider Electric, General Electric; 3M; Blauberg, and etc.

საქსაბელი
SAKCABLE

CERTIFICATE

JSC SAKCABLE IS A CERTIFIED PARTNER OF FRENCH COMPANY 'SCHNEIDER ELECTRIC'

Life Is On Schneider Electric

International Operations
Middle East Africa Zone
Turkey, Iran & Central Asia Cluster

to: To whom concern **date :** 10 April 2017

from: Emrah Tekdemir

cc:

subject: JSC Sakcable

To whom concern,

Company JSC "Sakcable" is certified partner of Schneider Electric since 2013. They have upgraded their factory and equipped cable production machines with Schneider Electric modern industrial automation systems and solutions, as:

- PLC units
- Variable Speed Drives
- Controllers
- Contactors, Soft Starters
- HMI, Touch Screen Operator Panels.

Also we would like to approve that JSC "Sakcable" specialists passed Industrial Automation Systems training in Ukraine and awarded certificates.

Sincerely Yours,

Schneider Elektrik Sanayi ve Ticaret A.Ş. Schneider Electric

Emrah TEKDEMIR
Central Asia Country President

Schneider Electric
117 C. Mardanov Qardashlari Str.
Ritz Plaza AZ1022 Baku - Azerbaijan

SCHNEIDER

JSC SAKCABLE is a certified partner of French company SCHNEIDER ELECTRIC

The Company's production is equipped with SCHNEIDER ELECTRIC modern industrial automation systems and solutions.

JSC SAKCABLE employees passed internships in Schneider Electric and had received certificates in the process of industrial automation.

CERTIFICATE OF GERMAN COMPANY 'SKET' ON TECHNICAL COMPLIANCE

SKET
Verseilmaschinenbau GmbH

TÜV CERT DIN EN ISO 9001 Zertifikat: 08 100 3570

SKET Verseilmaschinenbau GmbH, Schönebecker Str. 82 - 84, 39104 Magdeburg

JSC "Saqcabel"
Staroselski 15
2000 Zestafoni
Georgia

Ihre Zeichen	Unsere Zeichen	Ansprechpartner	Telefon/Fax	Magdeburg,
		George Kvaratskhelia	0391 4055885 0391 4055837	120.08.2016

Sehr geehrte Damen und Herren,

hiermit bestätigen wir, dass durch die von uns im Juni 2016 vorgenommenen Änderungen in der Konstruktion und den folgenden Umbau die Maschine, Typ MKD 1+12+18x630, welche bis zu den durchgeführten Arbeiten 30 Aluminiumdrähte in zwei Lagen verseilte, zur Zeit in der Lage ist, alle Drähte auch in einer Lage zu verseilen.

Das ermöglicht die Herstellung von verschiedenen Produkten mit deutlich größerem Querschnitt und hoher Drahtanzahl (bis zu 61 Drähte).

Mit freundlichen Grüßen

SKET Verseilmaschinenbau GmbH

G. Godau
Geschäftsleiter

G. Kvaratskhelia
Vertrieb

VERSEILMASCHINENBAU GmbH SKET MAGDEBURG

www.SKETVMB.de
e-mail:info@SKETVMB.de
Geschäftsführer:
Johannes Erich Wilms
HRB-Nr. 109620
Registergericht Stendal

With reference to invoice No. please channel transfer direct to:
Unter Bezugnahme auf die Rechnungsnummer überweisen Sie direkt an:

Deutsche Bank AG
BLZ 810 700 00
Account-No. 1 453 075
SWIFT:DEUTDE8M
IBAN:
DE68 8107 0000 0145 3075 00

Commerzbank AG
BLZ:810 400 00
Account-No. 2514115
SWIFT:COBADEFF810
IBAN:
DE84 8104 0000 0251 4115 00

Hypo Vereinsbank
BLZ:200 300 00
Account-No.648307569
SWIFT:HYVEDEMM300
IBAN:
DE92 2003 0000 0648 3075 69

SKET

Specialists of the German company SKET , which is the manufacturer of cable producing machinery , carried out the technical inspection of the SKET's machinery in JSC SAKCABLE and confirmed their technical compliance.

CERTIFICATE

ACCORDANCE WITH THE OPERATING STANDARDS

სსიპ საქართველოს
სტანდარტებისა და მეტროლოგიის
ეროვნული სააგენტო

0178, თბილისი, საქართველო, ჩარგლის ქ. №67
ტელ.: (99532) 261 25 30
ფაქსი: (99532) 261 35 00
ელ-ფოსტა: info@geostm.ge

LEPL GEORGIAN
NATIONAL AGENCY OF
STANDARDS AND METROLOGY

№67 Chargali str., 0178 Tbilisi, Georgia
Tel.: (99532) 261 25 30
Fax: (99532) 261 35 00
E-mail: info@geostm.ge

11.04.2017 № 192

სს - „საქკაბელი"-ს გენერალურ დირექტორს

ბ-ნ ნესტორ ლუტიძეს

ბატონო ნესტორ,

თქვენი 2017 წლის 7 აპრილის წერილიზე, გაცნობებთ, რომ წერილში მითითებული სტანდარტები: გოსტ 839-80, გოსტ 1508-78, გოსტ 3063-80, გოსტ 3241-91, გოსტ 4775-91, გოსტ 31947-2012, გოსტ 7399-97, გოსტ 31996-2012, გოსტ 26437-85, გოსტ 26445-85, გოსტ 31946-2012 და ენ 50525-2-11 დღეის მდგომარეობით მოქმედებს საქართველოდ ტერიტორიაზე.

რაც შეეხება სტანდარტს ოეკ 61089:1991 საგენტოში რეგისტრირებული არ არის და შესაბამისად არ არის დაშვებული საქართველოს ტერიტორიაზე. აღნიშნული სტანდარტის რეგისტრაცია შესაძლებელია წერილობითი მოთხოვნის საფუძველზე.

პატივისცემით,

გენერალური დირექტორი დავით ტყემალაძე

ISO 9001 CERTIFICATE

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

JSC "Sakcable"
15 Staroselski str.
2000 Zestafoni
Georgia

has established and applies
a Quality Management System for

Production and Supply of Cable Product

An audit was performed, Report No. 70791390.
Proof has been furnished that the requirements
according to

ISO 9001:2015

are fulfilled.
The certificate is valid from 2018-03-23 until 2021-03-13.
Previous certificate valid until 2018-03-13.
Certificate Registration No.: 12 100 43010 TMS.

Product Compliance Management
Munich, 2018-03-23

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstraße 65 • 80339 München • Germany

GEORGIAN ASSOCIATION QUALITY

EUROPEAN ORGANIZATION FOR QUALITY

სერტიფიკატი
CERTIFICATE

არასამეწარმეო (არაკომერციული) იურიდიული პირი "ხარისხის ნიშანი" ადასტურებს, რომ

სს " საქკაბელი "-ს

ხარისხის მენეჯმენტი და მის მიერ წარმოებული პროდუქციის ხარისხი სრულად შეესაბამება

"ხარისხის ნიშნის" პროგრამით დადგენილ უმაღლეს დონეს და აღნიშნულ კომპანიას ენიჭება უფლება

გამოიყენოს "ხარისხის ნიშანი" 2017 წლის 24 აპრილიდან 2020 წლის 24 აპრილამდე

Non-entrepreneurship (uncommercial) non-profit legal person "Quality Mark" certifies that quality management and

quality of products provided by **Sakcable JSC** corresponds to the highest level

established within the "Quality Mark" program and this company is authorized to use

the "Quality Mark" until 24 April, 2020.

№ 08/04-17

გაცემის თარიღი/DATE OF ISSUE: **24.04.2017**

გრიგოლ კუნჭულია/ GRIGOL KUNTCHULIA

ასაპ ხარისხის ნიშნის დამფუძნებელი/Founder of Quality Mark

ევროპის ხარისხის ორგანიზაციის წარმომადგენელი საქართველოში/EOQ Representative in Georgia

LABORATORY ACCREDITATION CERTIFICATE

სსიპ „აკრედიტაციის ერთიანი ეროვნული ორგანო – აკრედიტაციის ცენტრი“

აკრედიტაციის მოწმობა

GAC-TL-0061

ადასტურებს, რომ

ს.ს „საქკაბელი“-ს

საგამოცდო ლაბორატორია

მდებარე: ქ. ზესტაფონი. სტაროსელსკის ქ. #15,

შეფასდა და აკმაყოფილებს ეროვნული სტანდარტის

სსტ ისო/იეკ 17025:2010-ის მოთხოვნებს

აკრედიტებულია შემდეგ არიზოლირებული და იზოლირებული სადენები და კაბელები:
(იხ. „აკრედიტაციის სფერო“, დანართი 1).

აკრედიტაციის ცენტრის
გენერალური დირექტორი

რეგისტრაციის თარიღი
19 მაისი 2014 წ.

ძალაშია
19 მაისი 2018 წ.

0186 თბილისი, ალ. ყაზბეგის გამზ. №42ა

დამკვეთი: სსიპ „აკრედიტაციის ერთიანი ეროვნული ორგანო - აკრედიტაციის ცენტრი“
დამამზადებელი: შპს „პოლეი“. სფს-ს რეგისტრაციის № 06-3838

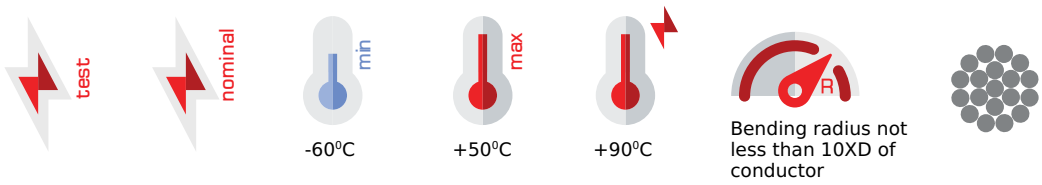
UNINSULATED

A	
STANDARD	GOST 839-2019
FOREIGN ANALOGUE	A GOST 839-80 | AAC IEC61089,SFS 5701

Uninsulated conductor twisted with aluminum wires

APPLICATION

For transmission of electric power in overhead electric networks, used in I and II type atmospheric air provided that the content of sulphur trioxide in the atmosphere is not more than150mg/m2 per day (150mg/m^3) and according to standard 15150-69 in all microclimatic regions of the land.



CONSTRUCTION

The conductor is made of aluminum wire by twisting.
In case of twisting in layers, the twisting is performed in opposite directions.

THE CONSTRUCTION LENGHT OF THE CABLE

Indicated in the table.
According with customer's request and agreement conductors with different construction length can be manufactured.

PACKING

On wooden drum or bundles

LABELING

Label attached to wooden drum or bundle

SERVICE LIFETIME

not less than 45 years.

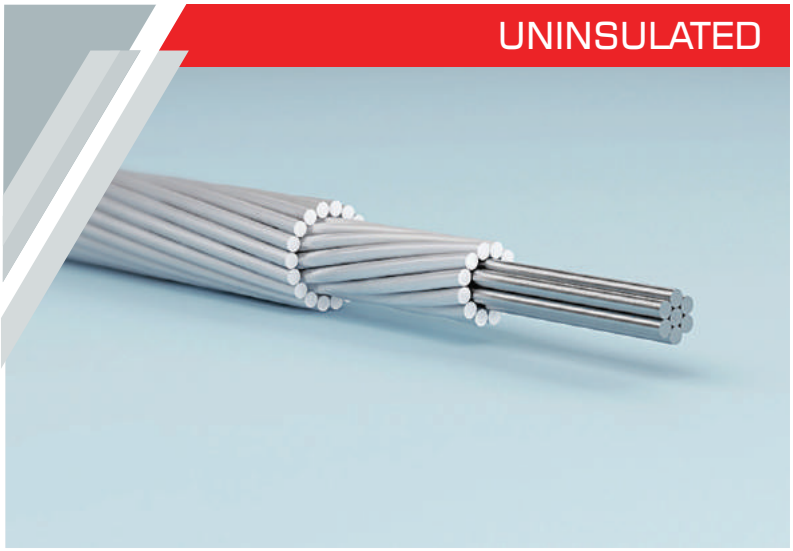
WARRANTY PERIOD

4 years after entering into exploitation, In the proper installation and working conditions

A GOST 839-2019

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Outer diameter [mm]	Bending radius [mm]	Weight [kg/km]	Construction length. No less [m]
16	18 007	105	5,10	51	44	4500
25	11 498	136	6,40	64	69	4000
35	0,8347	170	7,50	75	94	4000
50	0,5784	215	9,00	90	136	3500
70	0,4131	365	10,7	107	190	2500
95	0,3114	320	12,3	123	253	2000
120	0,2459	375	14,0	140	321	1500
150	0,1944	440	15,8	158	407	1250
185	0,1574	500	17,5	175	502	1000
240	0,1205	590	20,0	200	656	1000
300	0,1000	680	22,1	221	794	1000
400	0,0740	895	25,6	256	1072	1000
500	0,0576	980	29,10	291	1378	1000
600	0,0491	1100	31,50	315	1618	800
700	0,0417	1280	34,20	342	1902	800

UNINSULATED



AS

Uninsulated conductor twisted with steel core and aluminum wires.

ASKP

The same as AS, but the space between of wires, except outer surface, is covered with persistent neutral lubricant.

ASKS

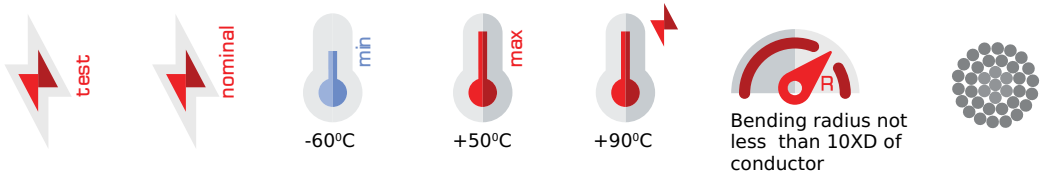
The same as AS, but the space between of wires of steel core is covered with persistent neutral lubricant.

STANDARD	GOST 839-80

FOREIGN ANALOGUE
AC GOST 839-80 | ACSR IEC 61089

APPLICATION

AS: For transmission of electric power in overhead electric networks, used in I and II type atmospheric air provided that the content of sulphur trioxide in the atmosphere is not more than150mg/m2 per day (1.5mg/m^3) and in all microclimatic regions of the land according to standard 15150-69.
ASKP and ASKS: Used on the seashores, in industrial regions, salty sandy regions, as well as regions adjoining them in II and III type atmospheric air provided that the content of sulphur trioxide in the atmosphere is not more than150mg/m2 per day (1.5mg/m^3) and Chlorine salt not more 200 mg/m^2 ,in all microclimatic regions of the land according to standard 15150.



-60°C +50°C +90°C

Bending radius not less than 10XD of conductor

CONSTRUCTION

The conductor is made by twisting of the steel conductor and aluminum wire. Regarding to the structure, the steel core is single-wire or twisted multi-wire. In case of twisting in layers, the twisting is performed in opposite directions.

THE CONSTRUCTION LENGHT OF THE CABLE

indicated in the table.
According to the customer's request and agreement conductors with different construction length can be manufactured.

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils).

SERVICE LIFETIME

Not less than 45 years.

WARRANTY PERIOD

4 years after entering into exploitation, In the proper installation and working conditions.

AS GOST 839-80

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Outer diameter [mm]	Bending radius [mm]	Weight [kg/km]	Construction length. No less [m]
16/2.7	1,7818	111	5,55	55	64,9	3000
25/4.2	1,1521	142	6,9	69	100,3	3000
35/6.2	0,7774	175	8,4	84	148	3000
50/8.0	0,5951	210	9,6	96	195,1	3000
70/11	0,4218	265	11,4	114	276	2000
95/16	0,3007	330	13,5	135	385	1500
120/19	0,244	390	15,15	152	470,9	2000
120/27	0,2531	375	15,4	154	528	2000
150/19	0,2046	450	16,75	168	554	2000
150/24	0,2039	450	17,1	171	598,9	2000
150/34	0,2061	450	17,5	175	675	2000
185/24	0,154	520	18,9	189	704,9	2000
185/29	0,1591	510	18,82	188	727,9	2000
185/43	0,1559	515	19,6	196	846	2000
240/32	0,1182	605	21,6	216	920,9	2000
240/39	0,1222	610	21,55	216	952	2000
240/56	0,1197	610	22,4	224	1106	2000
300/39	0,0958	710	23,95	240	1132	2000
300/48	0,0978	690	24,05	240	1186	2000
300/67	0,1	680	24,5	245	1323	2000
330/43	0,0869	730	25,2	252	1255	2000
400/64	0,0741	860	27,68	277	1572	1500
400/93	0,0741	860	29,1	291	1851,1	1500
400/51	0,0722	825	27,45	275	1490,6	1500
500/64	0,0588	945	30,6	306	1852,3	1500

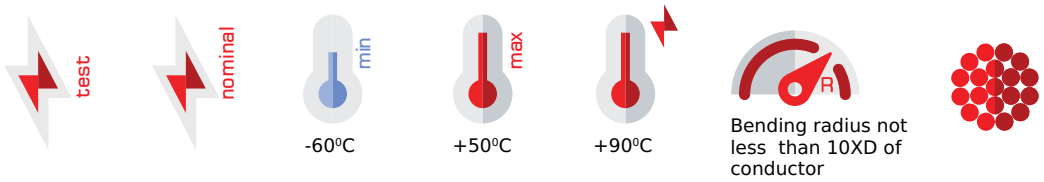
UNINSULATED

M	
STANDARD	GOST 839-2019
FOREIGN ANALOGUE	
M GOST 839-2019	

Uninslated conductor twisted with copper wires.

APPLICATION

For transmission of electric power in overhead electric networks, used in I and II type atmospheric air provided on land and sea in all microclimatic regions of the land according to standard 15150.



CONSTRUCTION

The conductor is made from copper wire by twisting. In case of twisting in layers, the twisting is performed in opposite directions. Half side of the outer layers is right direction.

THE CONSTRUCTION LENGHT OF THE CABLE

indicated in the table.
By request and agreement with the customer conductors with different construction length can be manufactured.

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils).

SERVICE LIFETIME

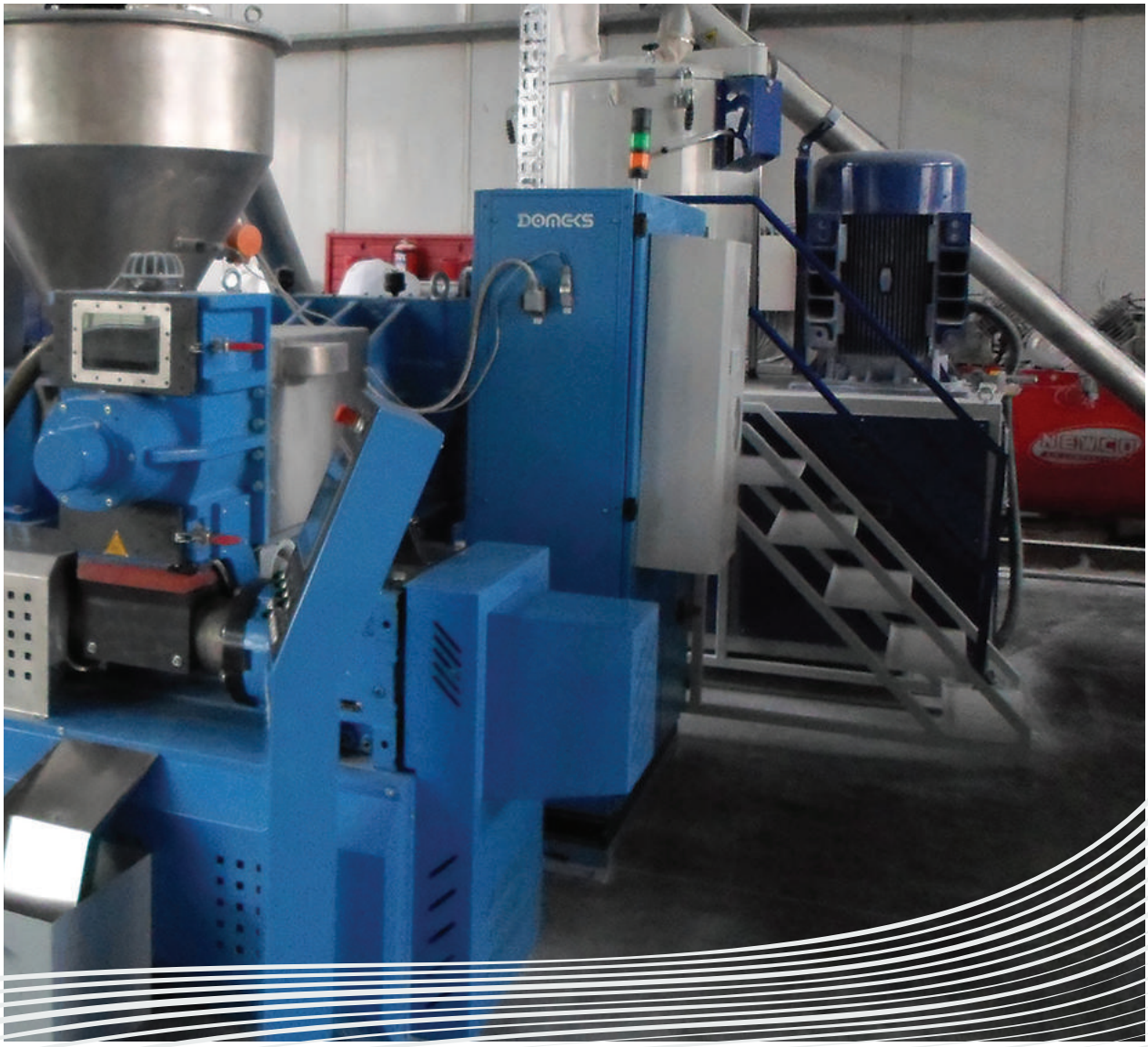
Not less than 45 years.

WARRANTY PERIOD

4 years after entering into exploitation, In the proper installation and working conditions

M

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Outer diameter [mm]	Bending radius [mm]	Weight [kg/km]	Construction length. No less [m]
10	1,8197	95	3,96	40	87	900
16	1,1573	133	5,10	51	144	4000
25	0,7336	183	6,40	64	225	3000
35	0,5238	223	7,50	75	312	2500
50	0,3688	275	9,00	90	446	2000
70	0,2723	387	10,7	107	615	1500
95	0,1944	422	12,6	126	854	1200
120	0,156	485	14,0	140	1062	1000
150	0,1238	570	15,8	158	1344	800
185	0,1001	650	17,6	176	1666	800
240	0,0789	760	19,9	199	2133	800
300	0,0637	880	22,1	221	2615	800



UNINSULATED

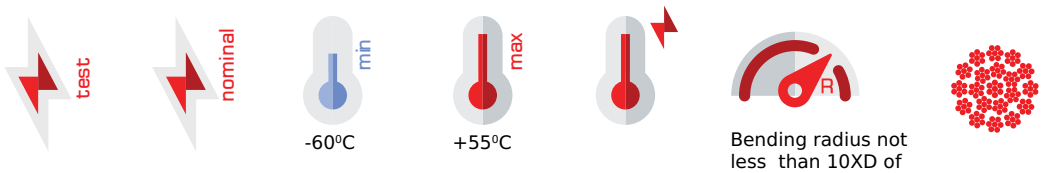
MG	
STANDARD	GOST 26437-85 T.C 16.705466-87

FOREIGN ANALOGUE
МГ Гост 26437-85 | ТУ 16.705466-87

Flexible uninsulated conductor twisted from copper wires.

APPLICATION

In electric equipment and devices, as well as in electric system of railway.



Bending radius not less than 10XD of conductor

CONSTRUCTION

The conductor is made from copper multi-core wire by twisting, class IV flexibility according to standard GOST 22483-2012. Nominal section of the conductor is 1.5-up to 150mm².

THE CONSTRUCTION LENGHT OF THE CABLE

according to the sections it is as follows:

1,5 - 6mm² inclusive 50m
10 - 25mm² inclusive 2000m
35 - 70mm² inclusive 1000m
95 - 150mm² inclusive 500m

By the request and agreement with the customer conductors with different construction length can be manufactured.

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils).

SERVICE LIFETIME

Not less than 10 years

WARRANTY PERIOD

2 years after production

MG

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Outer diameter [mm]	Bending radius [mm]	Weight [kg/km]
10	2	80	10,06	50	88,9
16	1,21	100	12,1	61	146,56
25	0,776	140	14,18	71	228,9
35	0,547	170	16,02	80	320,5
50	0,393	215	18	90	457,8
70	0,281	270	20,7	104	641
95	0,201	330	23,8	119	869
120	0,162	385	25,9	130	1098,8

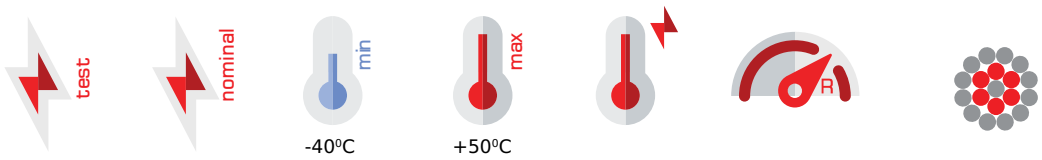
UNINSULATED

GFS	
STANDARD	GOST 4775-91 MS 15716715-001-2010
FOREIGN ANALOGUE	
ПБСМ GOST 4775-91	

Uninsulated conductor steel-copper twisted wires.

APPLICATION

For power supply of railway system, including contact systems.
Conductor is defined in all macro-climatic areas I, I I, I, IV type of atmosphere standard according to the standard 15150



CONSTRUCTION

The conductor is twisted from galvanized steel and copper wires

THE CONSTRUCTION LENGHT OF THE CABLE

not less than 1600m.
By request and agreement with the customer conductors of different construction length can be manufactured.

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils).

SERVICE LIFETIME

not less than 30-40 years.
Service lifetime in aggressive environment reduces by 10 years.

WARRANTY PERIOD

4 years after entering into exploitation, In the proper installation and working conditions

GFS GOST 4775-91 | MS 15716715-001-2010

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Outer diameter [mm]	Bending radius [mm]	Weight [kg/km]
50	0,9	90	9,25	93	425,5
70	0,622	120	11	110	601,3
95	0,48	140	12,5	125	776,5

UNINSULATED

S

STANDARD	GOST 3241-91, 3063-90

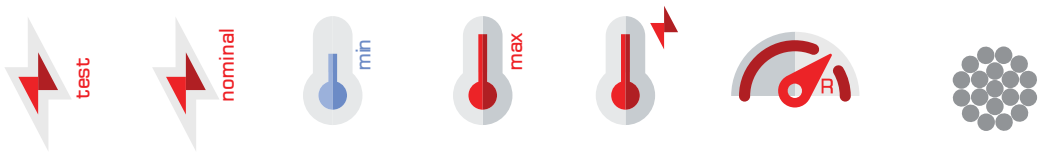
FOREIGN ANALOGUE

C GOST 3241-91 | 3063-90

Cable (rope) twisted with steel wires.

APPLICATION

In coal mining, gas-and-oil producing industry, metallurgy, engineering, construction industry, sea and river transport. It can be used as lightning protection at high voltage lines.



CONSTRUCTION

Steel cable (rope) is made of galvanized steel wire (number of wires 19) twisted as single or in layers and is covered with anti-corrosive temperature resistant lubricant material.

THE CONSTRUCTION LENGHT OF THE CABLE

agreed with the customer.
Deviation from length is possible: up to 400m +5%, above 400m +20%.

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils).

SERVICE LIFETIME	WARRANTY PERIOD
not less than 25 years	2 years

S GOST 3241-91, 3063-90

Part Name	Cross-Sectional area [mm]	Outer diam-eter [mm]	Tensile strength	Weight without lubricant [kg/ km]
C-35	33,82	7,6	41650	270
C-40	38,46	8,1	44400	310
C-45	43,4	8,6	53550	350
C-50	48,64	9,1	59950	390
C-60	60,35	10	74450	485
C-70	72,92	11	89950	585

SELF-SUPPORTING

SIP-1	
STANDARD	GOST 52373-05 | GOST 31946-2012, T.C 16-705.500-2006

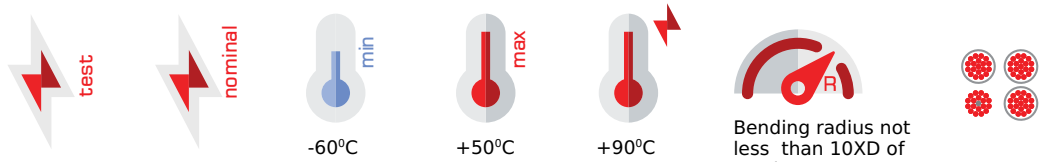
FOREIGN ANALOGUE

СИП-1 GOST 52373-05 ТУ 16-705-500-2006
АХКА DIN VDE 0276-626 s1 - 6

Self – supporting Aluminum conductor, with poly-ethylene lightproof insulation, with a bare neutral conductor for overhead lines.

APPLICATION

For supply and distribution electricity to power and lighting networks with variable voltage 0,660 / 1 kV . Used in the main overhead power line and in residential branching.



-60°C +50°C +90°C

Bending radius not less than 10XD of conductor

- Installation temperature: not less than -20°C
- Per day (8 hours) +130°C
- In short circuit with 5 minutes duration +250°C

CONSTRUCTION

1. The conductor is twisted by aluminum wires and it is compacted.
2. The insulation is thermo and lightproof . It is also resistant to ultraviolet radiation and ozone effect
3. Neutral conductor is twisted with aluminum solid wires or aluminum wire with steel core and uninsulated

THE CONSTRUCTION LENGHT OF THE CABLE

agreed during receiving order from the customer

PACKING On wooden drum

LABELING

Marking of conductor cores with figures 1, 2, 3. On one of the conductor cores an inscription is made: “JSC Sakcable”, cable brand, manufacture year

SERVICE LIFETIME

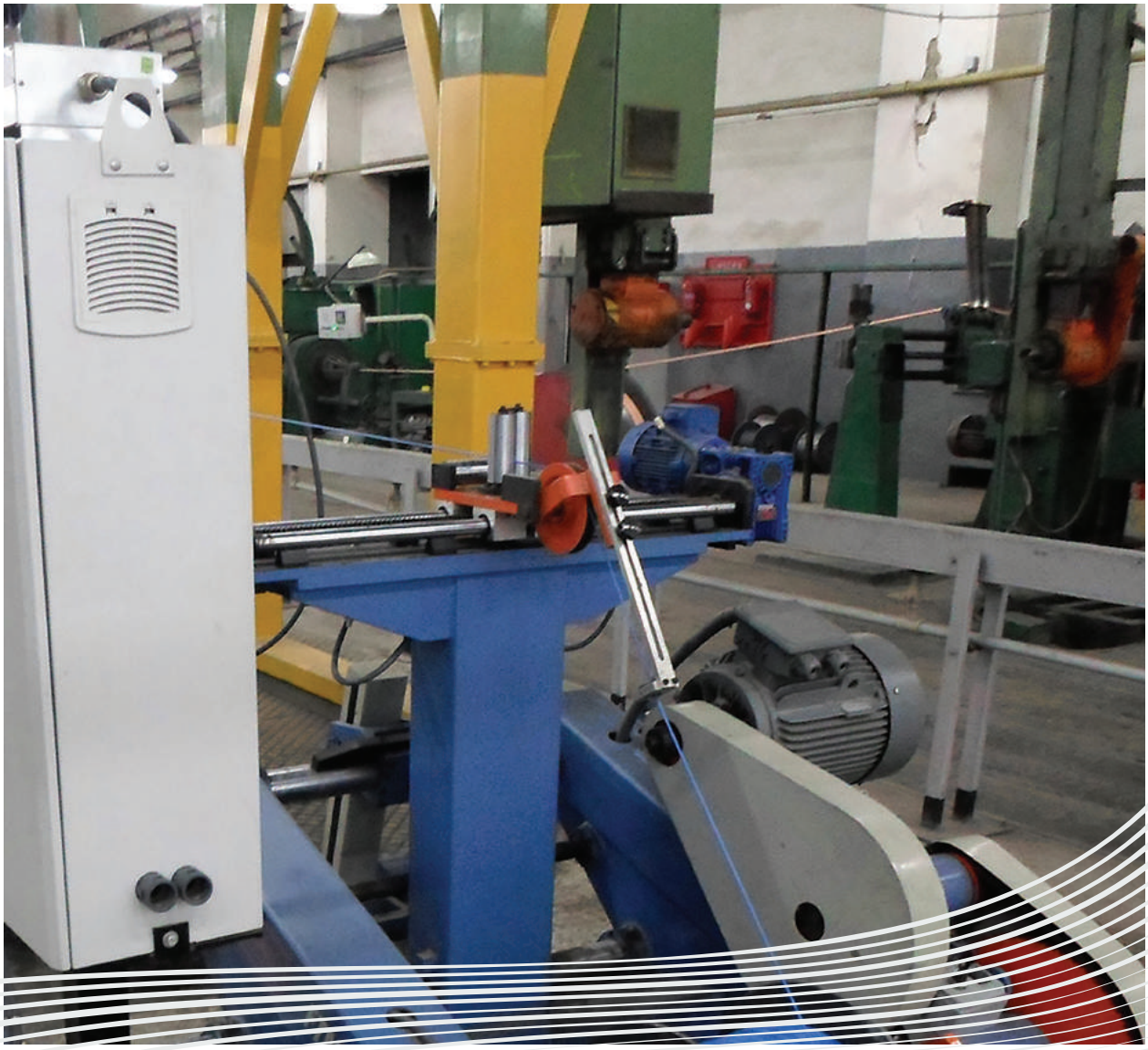
not less than 40 years

WARRANTY PERIOD

3 years after entering into exploitation, In the proper installation and working conditions (not later than within 6 months after production)

SIP-1 GOST 52373-05 | GOST 31946-2012, T.C 16-705.500-2006

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Wire dimension [mm]	Bending radius [mm]	Aluminium Weght [kg/km]	Weight [kg/km]
3 x 16 + 25	1,91/1,38	100	1,30	5,10/6,10	51/61	199	314
3 x 25 + 35	1,20/0,986	130	1,30	6,10/7,10	61/71	300	454
3 x 35 + 50	0,868/0,72	160	1,30	7,10/8,35	71/84	423	603
3 x 50 + 70	0,641/0.493	195	1,50	8,35/9,95	84/100	599	825
3 x 70 + 95	0,443/0,363	240	1,70	9,95/11,70	100/117	832	1128
3 x 95 + 95	0,320/0,363	300	1,70	11,70/11,70	117/117	1035	1390
3 x 120 + 95	0,253/0,363	340	1,70	13,10/11,70	131/117	1240	1624
3x35+1x54.6	0,868/0,63	160	1,7	7.10/ 9.60	71/96	435	620



SELF-SUPPORTING

SIP-2

STANDARD	GOST 52373-05 | GOST 31946-2012, T.C 16-705.500-2006

FOREIGN ANALOGUE

СИП-2 GOST 52373-05 ТУ 16-705-500-2006
АХКА -Т STANDARDDIN VDE 0276-626 s1
- 6

Self – supporting Aluminum conductor, with poly-ethylene lightproof insulation, with a bare neutral conductor for overhead lines

APPLICATION

In magisterial air lines and its derivations in the second and third type of atmospheric air, accordance with standard Gost 15150-69

4kV	0,6/1kV	-60⁰C	+50⁰C	+90⁰C	Bending radius not less than 10XD of conductor

- Installation temperature: not less than -20⁰C
- Per day (8 hours) +130⁰C
- In short circuit with 5 minutes duration +250⁰C

CONSTRUCTION

4. The conductor is twisted by aluminum wires and it is compacted.
5. The insulation is thermo and lightproof . It is also resistant to ultraviolet radiation and ozone effect
6. Neutral conductor is twisted with aluminum solid wires or aluminum wire with steel core and uninsulated

THE CONSTRUCTION LENGHT OF THE CABLE

agreed during receiving order from the customer

PACKING On wooden drum

LABELING

Marking of conductor cores with figures 1, 2, 3. On one of the conductor cores an inscription is made: “JSC Sakcable”, cable brand, manufacture year

SERVICE LIFETIME

not less than 40 years

WARRANTY PERIOD

3 years after entering into exploitation, In the proper installation and working conditions (not later than within 6 months after production)

SIP-2 GOST 52373-05 | GOST 31946-2012, T.C 16-705.500-2006

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Wire dimension [mm]	Bending radius [mm]	Aluminium Weght [kg/km]	Weight [kg/km]
3 x 16 + 25	1,91/1,38	100	1,30	5,10/6,10	51/61	199	348
3 x 25 + 35	1,20/0,986	130	1,30	6,10/7,10	61/71	300	496
3 x 35 + 50	0,868/0,72	160	1,30	7,10/8,35	71/84	423	650
3 x 50 + 70	0,641/0.493	195	1,50	8,35/9,95	84/100	599	890
3 x 70 + 95	0,443/0,363	240	1,70	9,95/11,70	100/117	832	1214
3 x 95 + 95	0,320/0,363	300	1,70	11,70/11,70	117/117	1035	1475
3 x 120 + 95	0,253/0,363	340	1,70	13,10/11,70	131/117	1240	1708
3x35+1x54.6	0,868/0,63	160	1,70	7.10/ 9.60	71/96	435	678

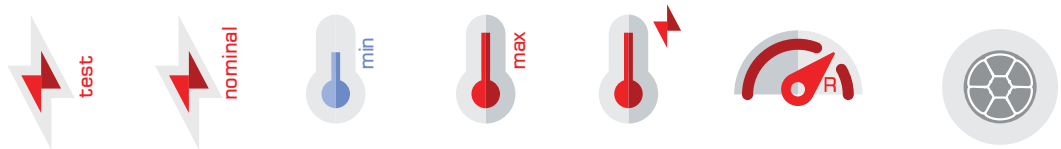
SELF-SUPPORTING

SIP-3	
STANDARD	GOST 52373-05 | GOST 31946-2012, T.C 16-705.500-2006
FOREIGN ANALOGUE	
СИП-3 GOST 52373-05 | ТУ 16-705-500-2006 | SAX	

Aluminum compacted single core conductor, with polyethylene thermo lightproof insulation.

APPLICATION

In aerial lines with rated voltage 10/30kV in second and third type atmospheric air according to the standard 15150-69, including shores and industrial and salty sand regions.



10-15-20kV 35kV	-60°C	+50°C	+90°C	Bending radius not less than 10XD of conductor

- Installation temperature: not less than -20°C
- Per day (8 hours) +130°C
- In short circuit with 5 minutes duration +250°C

CONSTRUCTION

1. The conductor is made from aluminum wire by twisting. Compacted with a special device.
2. The insulation is thermo and lightproof . It is also resistant to ultraviolet radiation and ozone effect XLPE insulation

THE CONSTRUCTION LENGHT OF THE CABLE

agreed during receiving order from the customer

PACKING

On wooden drum

LABELING

An inscription is made on conductor core: “JSC Sakcable” cable brand, manufacture year.

SERVICE LIFETIME

not less than 40 years

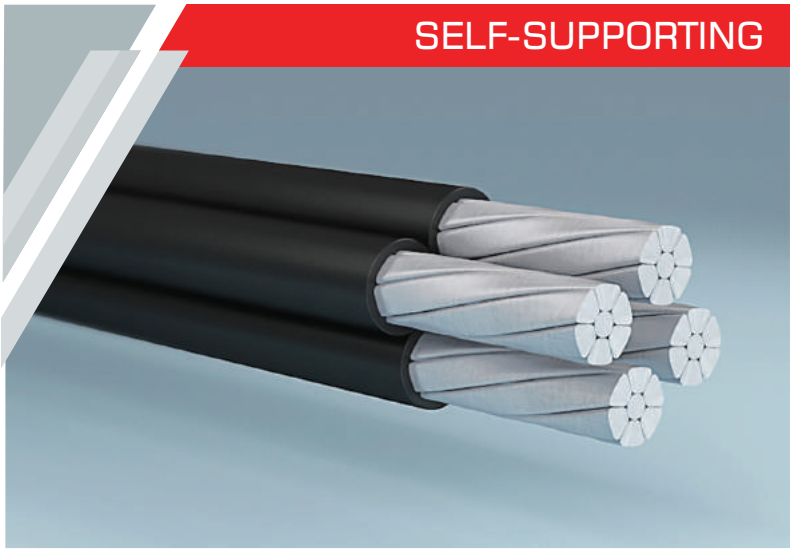
WARRANTY PERIOD

3 years after entering into exploitation, In the proper installation and working conditions (not later than within 6 months after production)

SIP-3 GOST 52373-05 | GOST 31946-2012, T.C 16-705.500-2006

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Wire dimension [mm]	Bending radius [mm]	Aluminium Weght [kg/km]	Weight [kg/km]
1 x 35	0,986	200	2,3	7,1	71	95	167
1 x 50	0,72	245	2,3	8,35	84	135	210
1 x 70	0,493	310	2,3	9,95	100	189	285
1 x 95	0,363	370	2,3	11,7	117	257	364
1 x 120	0,288	430	2,3	13,1	131	324	435

SELF-SUPPORTING



SIP-4	
STANDARD	GOST 52373-05 | GOST 31946-2012, T.C 16-705.500-2006

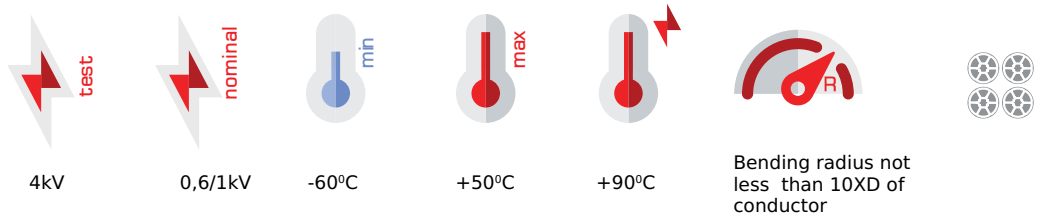
FOREIGN ANALOGUE

GOST 52373-05 TY 16-705-500-2006
ABC STANDARDDIN VDE 0276-626 s1 - 4F1

Aluminum compacted-core conductor, with poly-ethylene lightproof insulation for aerial lines

APPLICATION

On derivations of aerial lines and installation in walls of facilities in second and third type atmospheric air according to the standard 15150-69.



4kV | 0,6/1kV | -60°C | +50°C | +90°C | Bending radius not less than 10XD of conductor

- Installation temperature: not less than -20°C
- Per day (8 hours) +130°C
- In short circuit with 5 minutes duration +250°C

CONSTRUCTION

1. The conductor is twisted by aluminum wires made from aluminum wire by twisting, Compacted.
2. The insulation is thermo and lightproof . It is also resistant to ultraviolet radiation and ozone effect

THE CONSTRUCTION LENGHT OF THE CABLE

Agreed during receiving order from the customer.

PACKING

On wooden drum

LABELING

Conductor cores are marked with figures 1, 2, 3. An inscription is made on conductor core: “JSC Sakcable” cable brand, manu-facture year

SERVICE LIFETIME

not less than 40 years

WARRANTY PERIOD

3 years after entering into exploitation, In the proper installation and working conditions (not later than within 6 months after production)

SIP-4 GOST 52373-05 | GOST 31946-2012, T.C 16-705.500-2006

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Wire dimension [mm]	Bending radius [mm]	Aluminium Weght [kg/km]	Weight [kg/km]
2 x 16	1,91	100	1,3	5,1	51	87,3	142
2 x 25	1,2	130	1,3	6,1	61	136,4	201
2 x 35	0,868	160	1,3	7,1	71	190,9	269
2 x 50	0,641	195	1,5	8,35	84	272,7	365
2 x 70	0,443	240	1,7	9,95	100	381	492
2 x 95	0,32	300	1,7	11,7	117	518	668
2 x 120	0,253	340	1,7	13,1	131	654	822
3 x 16	1,91	100	1,3	5,1	51	131,9	212
3 x 25	1,2	130	1,3	6,1	61	204,6	304
3 x 35	0,868	160	1,3	7,1	71	286,35	404
3 x 50	0,641	195	1,5	8,35	84	409	548
3 x 70	0,443	240	1,7	9,95	100	570	738
3 x 95	0,32	300	1,7	11,7	117	777	1010
3 x 120	0,253	340	1,7	13,1	131	981	1232
4 x 16	1,91	100	1,3	5,1	51	174,5	283
4 x 25	1,2	130	1,3	6,1	61	272,8	403
4 x 35	0,868	160	1,3	7,1	71	381,7	540
4 x 50	0,641	195	1,5	8,35	84	545,4	730
4 x 70	0,443	240	1,7	9,95	100	762	984
4 x 95	0,32	300	1,7	11,7	117	1036	1335
4 x 120	0,253	340	1,7	13,1	131	1308	1643

MOUNTING

APV

Power cable with aluminum core, with polyvinyl-chloride insulation and polyvinylchloride sheath

APV-LS

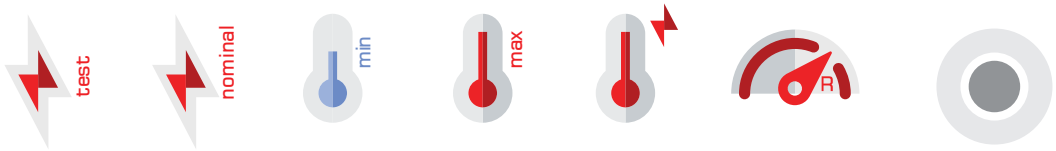
The same as APV, but with low gas and smoke polyvinyl chloride insulation.

STANDARD	GOST 6323-79 26445-85 31947-2012

FOREIGN ANALOGUE
АПВ GOST 6323-79 26445-85 31947-2012 N2XSY DIN VDE 0276-620-96

APPLICATION

For lighting and power circuits while stationary laying in electric devices, for inflexible installation in electric devices, machinery, mechanisms and industrial machines for rated voltage up to 450V (for networks 450/750V) frequency up to 400 Hz or permanent voltage 1000V. Is used for laying in empty places of steel pipes and construction structures, where there are not frequent bends of the conductor.
The conductor is flame retardant.



2,5kV 50Hz	450-v/50 /50 Hz	-50⁰C	+70⁰C	Bending radius not less than 10xD of cable

- Installation temperature: not less than -15⁰C.
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not exceed 250⁰C.
- The insulation is resistant to cracking:+150⁰C. Deformation: +70⁰C .
- The conductor is resistant to 100% relative air humidity under +35⁰C.

CONSTRUCTION

The aluminum cores with section 2,5:16mm² inclusive are produced with one wire of 1 class flexibility, according to standard 22483 , 25-240mm² are produced with twisted multi-core wire 2 class flexibility according to standard 22483-2012.
Insulation of the conductor is made in different colors

THE CONSTRUCTION LENGHT OF THE CABLE

not less than 100m

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils). An inscription is made on conductor core: JSC Sakcable, cable brand, metric.

SERVICE LIFETIME

not less than 15 years

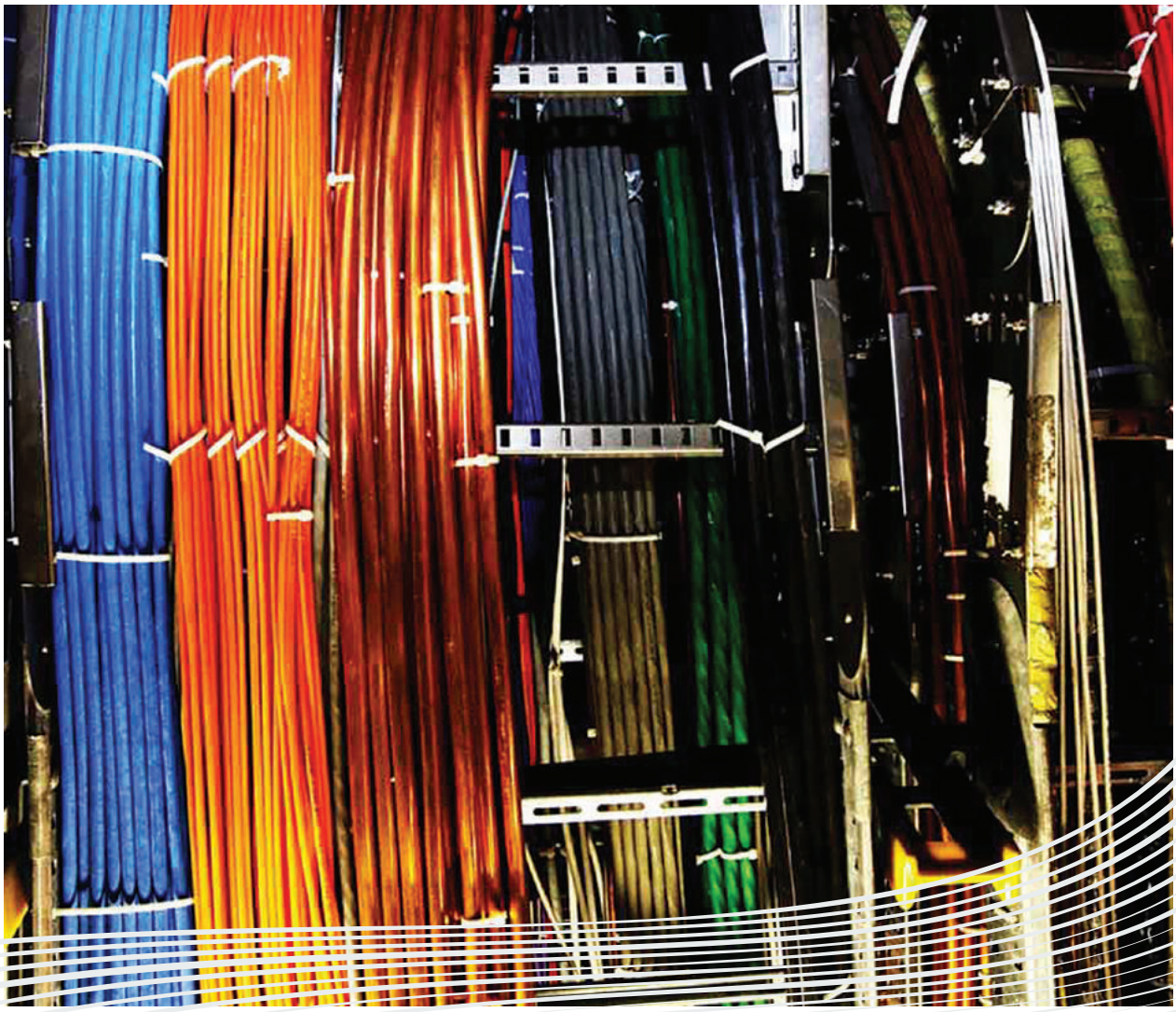
WARRANTY PERIOD

2 years after entering into service, in the proper installation and working conditions.

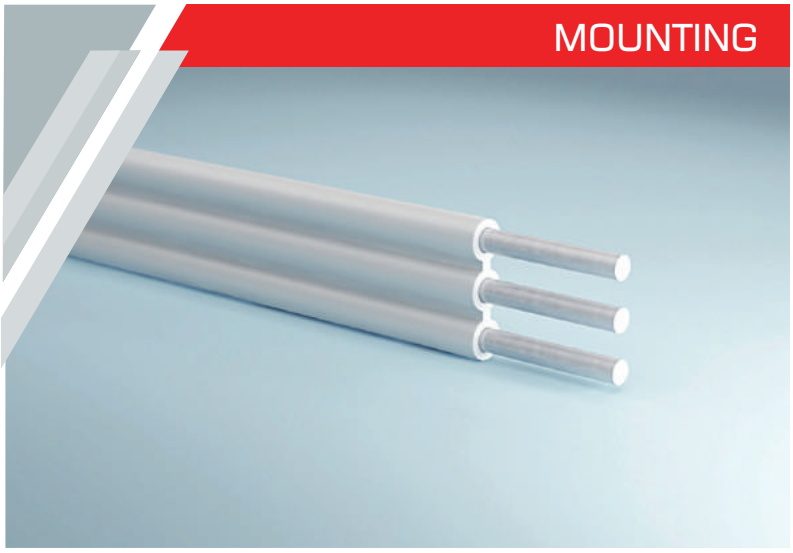
APV GOST 6323-79 26445-85 31947-2012

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminium Weght [kg/km]	Weight [kg/km]
2,5 re	12,1	23	0,8	3,4	34	6,75	12,83
4 re	7,41	31	0,8	3,9	39	10,8	18,18
6 re	5,11	38	0,8	4,4	44	16,2	24,78
10 re	3,08	60	1	5,6	56	27	42,75
16 re	1,91	75	1	6,6	66	43,2	62,38
16 rm	1,91	75	1	6,8	68	43,84	69,68
25 re	1,20	105	1,2	8	80	67,5	97,77
25 rm	1,20	105	1,2	8,5	85	68,52	108,96
35 re	0,868	130	1,2	8,4	84	94,5	127,01
35 rm	0,868	130	1,2	9,8	98	95,92	140,82
50 re	0,641	165	1,4	10,5	105	135	175,07
50 rm	0,641	165	1,4	12	120	137	191,6
70 rm	0,443	210	1,4	13,15	131	189	265,62
95 rm	0,320	250	1,6	16,8	168	256,5	356,11
120 rm	0,253	295	1,6	17,5	175	324	437,26
150 rm	0,206	340	1,8	13,75	138	405	527,97
185 rm	0,164	395	1,8	20,7	207	449,5	653,11
240 rm	0,125	465	1,8	23,6	236	648	851,41

re - Single-core
rm - Multi-core



MOUNTING



APPV

Conductor with copper core, with polyvinylchloride insulation and dividing base, flat

APPV-FR-LS

The same as APPV , but with low gas and Smoke polyvinylchloride insulation

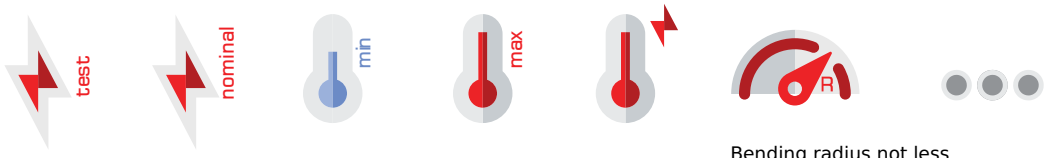
STANDARD	GOST 6323-79 26445-85 31947-2012

FOREIGN ANALOGUE
АППВ GOST 6323-79 26445-85 31947-2012

APPLICATION

For lighting and power circuits while stationary laying in electric devices, for inflexible installation in electric devices, machinery, mechanisms and industrial machines for rated voltage up to 450V (for networks 450/750V) frequency up to 400 Hz or permanent voltage 1000V. Is used for laying in empty places of steel pipes and construction structures, where there are not frequent bends of the conductor
The conductor is flame retardant.

- **APPV -** Fire Retardant in single layer
- **APPV-LS -** Fire Retardant in Multi layer



2,5kV 50 Hz | 450-v/50 /50 Hz | -50°C | +70°C | Bending radius not less than 10xD of cable

- Installation temperature: not less than -15°C.
- Conductive lobe for long-term allowable heating temperature +70°C.
- The conductor is resistant to 100% relative air humidity under +35°C.

CONSTRUCTION

The aluminum cores with section 2.5-6.0 mm² inclusive are produced with 1 class flexibility, according to the standard 22483-2012.
Number of cores in the conductor 2,3

THE CONSTRUCTION LENGHT OF THE CABLE

not less than 100m

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils). An inscription is made on conductor core: JSC Sakcable, cable brand, metric.

SERVICE LIFETIME

not less than 15 years

WARRANTY PERIOD

2 years after entering into service, in the proper installation and working conditions.

APPV GOST 6323-79 26445-85 31947 2012

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminium Weght [kg/km]	Weight [kg/km]
2X2.5	12,1	24	0,8	3,4	34	13,5	36,51
2X4.0	7,41	32	0,8	3,9	39	21,6	48,25
2X6.0	5,11	39	0,8	4,4	44	32,4	62,56
3X2.5	12,1	24	0,8	3,4	34	20,3	50,86
3X4.0	7,41	32	0,8	3,9	39	32,4	68,48
3X6.0	5,11	39	0,8	4,4	44	48,6	89,94

MOUNTING

PV-1

Conductor with copper core, with polyvinylchloride insulation

PV-1-LS

The same as PV-1, but with low gas and Smoke polyvinylchloride insulation

STANDARD	GOST 6323-79 26445-85 31947-2012

FOREIGN ANALOGUE
ПВ-1 GOST 6323-79 26445-85 31947-2012 | H05V-U STANDARDDIN VDE 0281-3

APPLICATION

For lighting and power circuits while stationary laying in electric devices, for inflexible installation in electric devices, machinery, mechanisms and industrial machines for rated voltage up to 450V (for networks 450/750V) frequency up to 400 Hz or permanent voltage 1000V. Is used for laying in empty places of steel pipes and construction structures, where there are not frequent bends of the conductor.

The conductor is flame retardant.

- PV-1 - Fire Retardant in single layer
- PV-LS - Fire Retardant in Multi layer

2,5kV 50Hz | 450-v/50 /50 Hz | -50°C | +70°C | Bending radius not less than 10xD of cable

- Installation temperature: not less than -15°C.
- Conductive lobe for long-term allowable heating temperature +70°C.
- The conductor is resistant to 100% relative air humidity under +35°C.

CONSTRUCTION

The copper cores with section 1.0-6mm² inclusive are produced with one wire of 1 class flexibility, according to Gost standard 22483-2012, 10-240mm² are produced with twisted multi-core wires 2 class flexibility according to standard 22483-77.
Insulation of the conductor is made in different colors.

THE CONSTRUCTION LENGHT OF THE CABLE

not less than 100m

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils). An inscription is made on conductor core: JSC Sakcable, cable brand, metric.

SERVICE LIFETIME

not less than 15 years

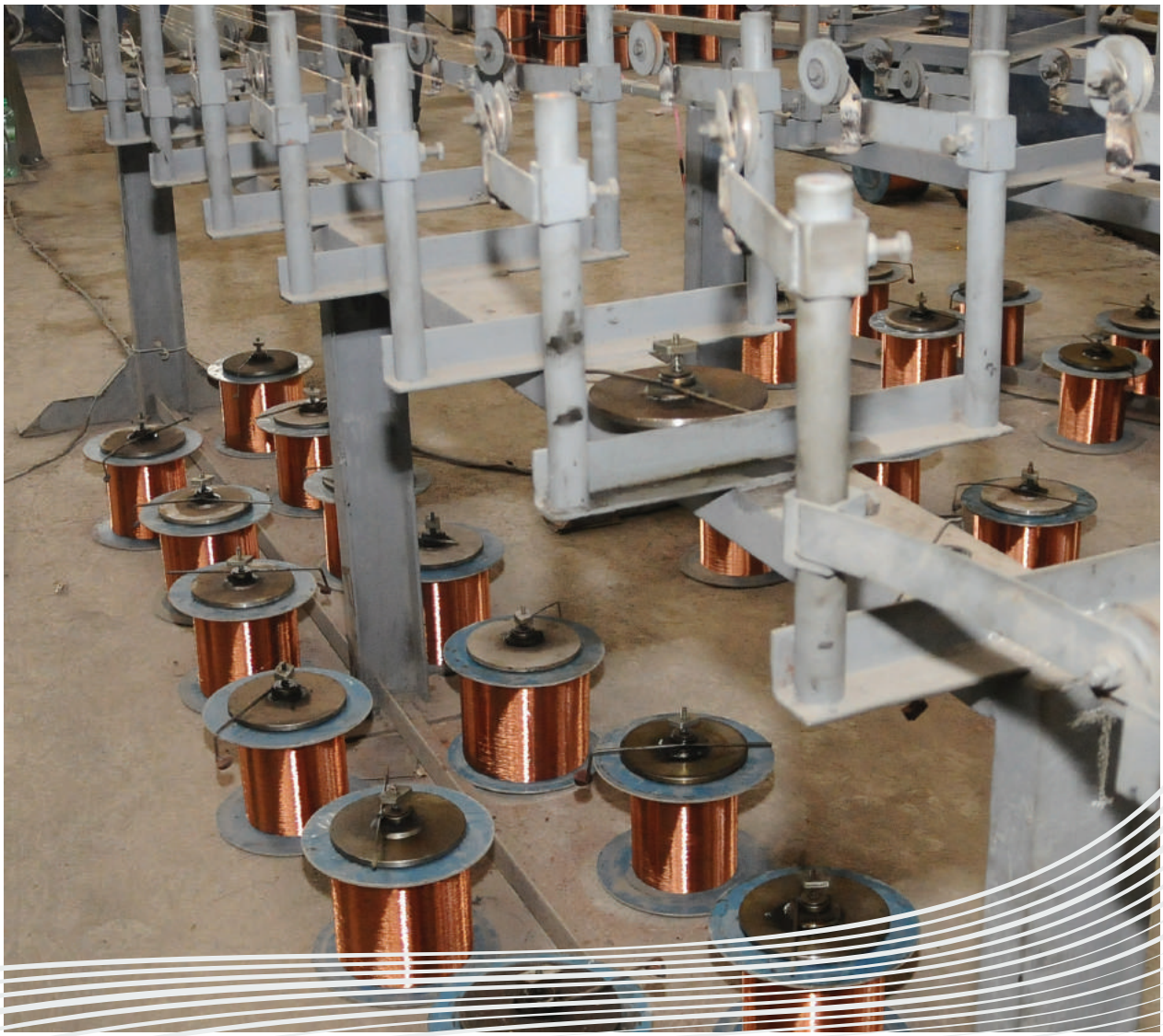
WARRANTY PERIOD

2 years after entering into service, in the proper installation and working conditions.

PV-1

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Outer diameter [mm]	Bending radius [mm]	სპილენძის წონა არა უმეტეს კგ/კმ	Weight [kg/km]
1.0 re	18,1	17	0,6	2,6	26	8,9	13,25
1.5 re	12,1	22	0,7	2,8	28	13,4	18,24
2.5 re	7,41	30	0,8	3,4	34	22,3	27,48
4.0 re	4,61	39	0,8	3,9	39	35,6	43,02
6.0 re	3,08	50	0,8	4,4	44	53,35	62,11
10.0 rm	1,83	68	1,0	6	60	88,9	109,73
16.0 rm	1,15	89	1,0	6,8	68	142,3	166,68
25.0 rm	0,727	121	1,2	8,5	85	222,25	262,12
35.0 rm	0,524	147	1,2	9,8	98	311,2	352,5
50.0 rm	0,387	179	1,4	12	120	444,5	483,16
70.0 rm	0,268	226	1,4	16,8	168	622,3	684,28
95.0 rm	0,193	280	1,6	17,5	175	844,6	934,55
120.0 rm	0,183	326	1,6	13,75	138	1066,8	1166,73
150.0 rm	0,124	373	1,8	20,7	207	1333,5	1429,91
185.0 rm	0,991	431	1,8	23,6	236	1644,7	1776,39
240.0 rm	0,0754	512	1,8	12	120	2133,6	2325,93

re - Single-core
rm - Multi-core



MOUNTING

PV-3

Conductor with copper core, polyvinylchloride insulation, increased flexible

PV-3-FR-LS

The same as PV-1, but with low gas and Smoke polyvinylchloride insulation

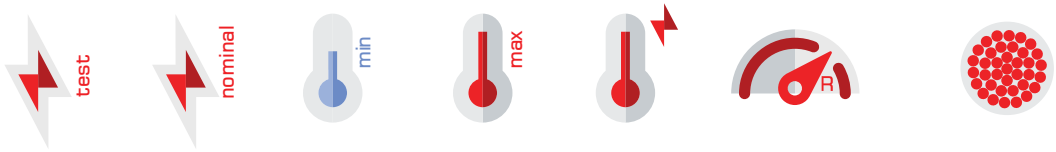
STANDARD	GOST 6323-79 26445-85 31947-2012

FOREIGN ANALOGUE
ПВ-3 GOST 6323-79 26445-85 31947-2012 | H05V-U STANDARDDIN VDE 0281-3

APPLICATION

For lighting and power circuits while stationary laying in electric devices, for inflexible installation in electric devices, machinery, mechanisms and industrial machines for rated voltage up to 450V (for networks 450/750V) frequency up to 400 Hz or permanent voltage 1000V. Is used for laying in empty places of steel pipes and construction structures, where there are not frequent bends of the conductor.

- **PV-3 -** Fire Retardant in single layer
- **PV-3 LS** Fire Retardant in Multi layer



2,5kV 50Hz | 450-v/50 /50 Hz | -50°C | +70°C | Bending radius not less than 5xD of cable

- Installation temperature: not less than -15°C.
- Conductive lobe for long-term allowable heating temperature +70°C.
- The conductor is resistant to 100% relative air humidity under +35°C.

CONSTRUCTION

The copper cores with section 1,5-4,0mm² inclusive are produced with PPV-1 flexibility and PPV-3 with 3,4 class flexibility according to the standard 22483-2012. Number of cores in the conductor 2,3

THE CONSTRUCTION LENGTH OF THE CABLES

not less than 100m

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils). An inscription is made on the cable core: JSC Sakcable, cable brand, metric.

SERVICE LIFETIME

not less than 15 years

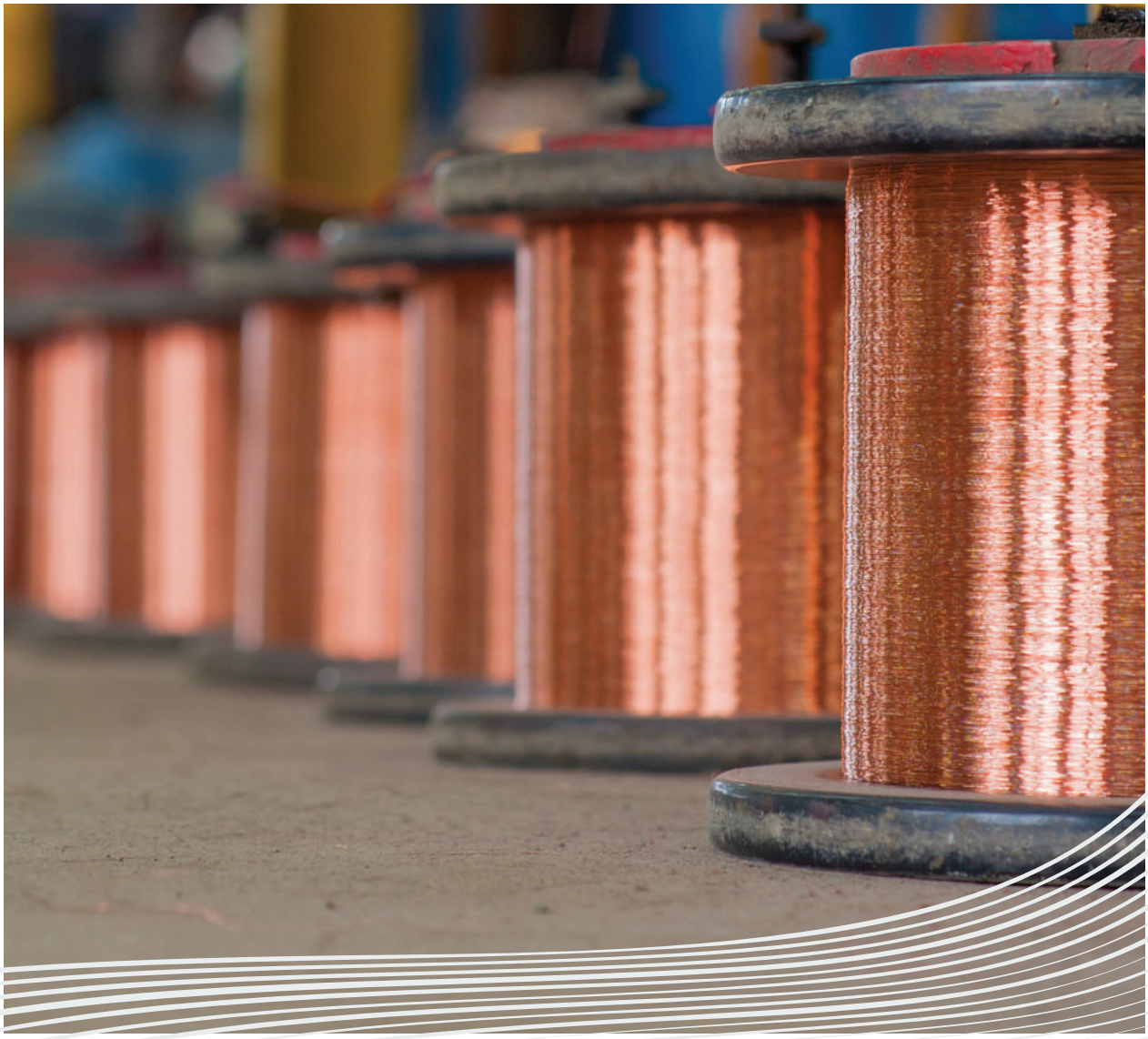
WARRANTY PERIOD

2 years after entering into service, in the proper installation and working conditions.

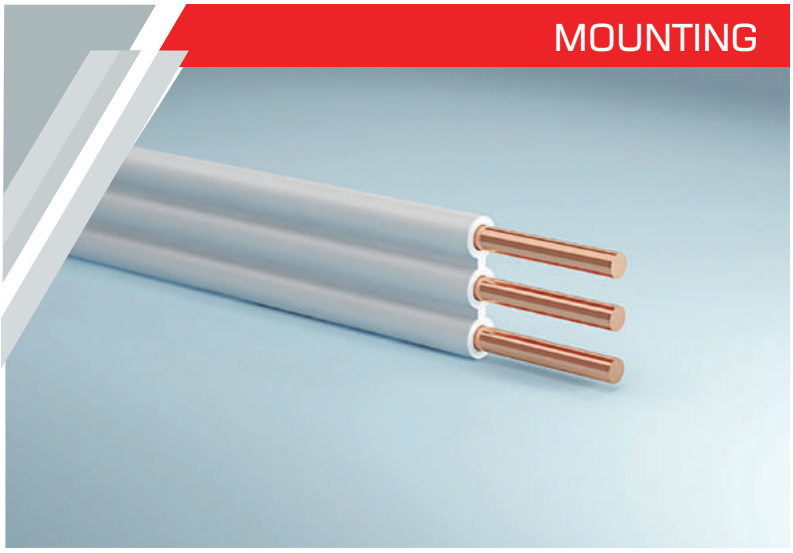
PV-3

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Outer diameter [mm]	Bending radius [mm]	სპილენძის წონა არა უმეტეს კგ/კმ	Weight [kg/km]
0,5	40,5	11	0,6	2	10	4,4	7,15
0,75	25,2	15	0,6	2,2	11	6,7	8,89
1	19,8	17	0,6	2,3	11	8,9	11,55
1,5	13,2	23	0,7	2,8	14	13,3	13,87
2,5	8,05	30	0,8	3,5	17	22,2	29,01
4	4,89	41	0,8	4	20	35,6	45,15
6	3,28	50	0,8	4,6	23	53,3	67,67
10	2	80	1	6,3	30	90	107,49
16	1,21	100	1	7,5	38	142,2	181,92
25	0,809	140	1,2	9,9	50	222,25	273,48
35	0,551	170	1,2	10,9	55	311,2	379,02
50	0,394	215	1,4	13,3	67	444,5	499,06
70	0,277	270	1,4	15,5	78	622,3	700,05
95	0,203	330	1,6	17,6	88	844,6	972,41
120	0,158	385	1,8	19,3	97	1066,8	1196,57

re - Single-core
rm - Multi-core



MOUNTING



PPV

Conductor with copper core, with polyvinylchloride insulation, flat, with dividing base

PPV –LS

The same as PPV , but with low gas and Smoke polyvinylchloride insulation

PPV-3

The same as PPV, but with flexible copper wire

PPV-3-LS

The same asPPV-3 , but with low gas and Smoke polyvinylchloride insulation

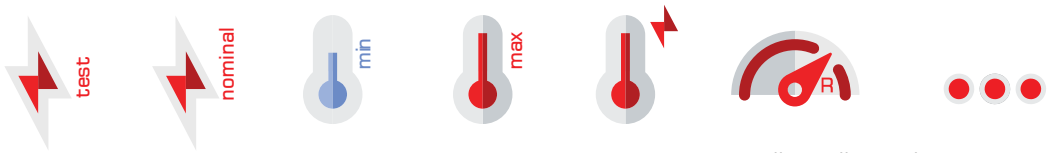
STANDARD	GOST 6323-79 26445-85 31947-2012

FOREIGN ANALOGUE
ППВ GOST 6323-79 26445-85 31947-2012 | NYIFY IEC 60227 / DIN VDE 0250

PPV / PPV-3 - Fire Retardant in single layer
PPV-LS / PPV-3-LS Fire Retardant in Multi layer

APPLICATION

For lighting and power circuits while stationary laying in electric devices, for inflexible installation in electric devices, machinery, mechanisms and industrial machines for rated voltage up to 450V (for networks 450/750V) frequency up to 400 Hz or permanent voltage 1000V. Is used for laying in empty places of steel pipes and construction structures, where there are not frequent bends of the conductor. The conductor is flame retardant.



2,5kV 50Hz | 450-v/50 /50 Hz | -50°C | +50°C | Bending radius not less than 10xD of cable

- Installation temperature: not less than -15°C.
- Conductive lobe for long-term allowable heating temperature +70°C
- The conductor is resistant to 100% relative air humidity under +35°C.

CONSTRUCTION

The aluminum cores with section 1.5-4.0 mm^2 inclusive are produced with PPV-1 and PPV-3 with 3,4 class flexibility, according to the standard Gost 22483-2012. Number of cores in the conductor 2,3

THE CONSTRUCTION LENGHT OF THE CABLE

not less than 100m

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle (coils). An inscription is made on the cable: JSC Sakcable, cable brand, metric.

SERVICE LIFETIME

not less than 15 years

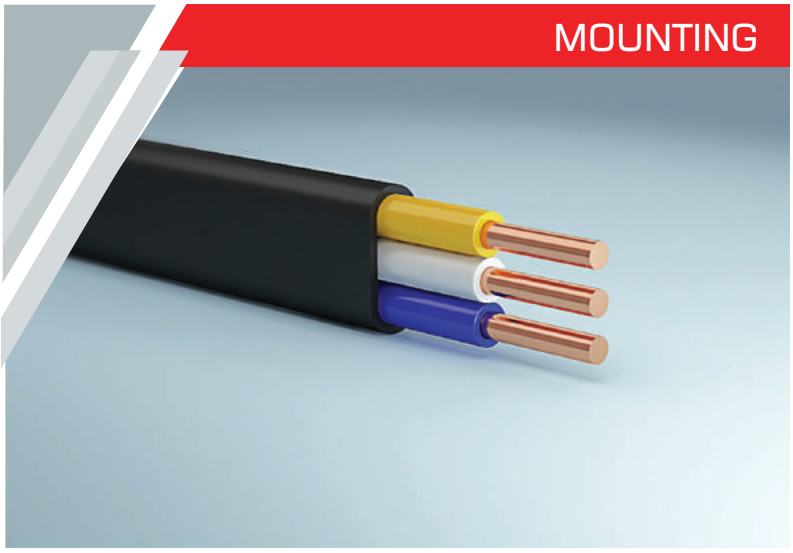
WARRANTY PERIOD

2 years after entering into service, in the proper installation and working conditions.

PPV

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
2X1.5	12,1	24	0,7	3,4	34	26,7	42,83
2X2.5	7,41	33	0,8	3,9	39	44,5	65,83
2X4.0	4,61	44	0,8	4,4	44	71,1	94,62
3X1.5	12,1	21	0,7	3,4	34	40	60,34
3X2.5	7,41	28	0,8	3,9	39	66,7	94,85
3X4.0	4,61	37	0,8	4,4	44	106,7	138,03

MOUNTING



H05VVH2-U

STANDARD	EN 50525-2-11-2014

Mounting Copper conductor , with polyvinylchloride insulation and sheath, flat

H05VVH2-U FR-LS

STANDARD	EN 50525-2-11-2014

The same as H05VVH2-U, but with low gas and Smoke poly-vinylchloride insulation

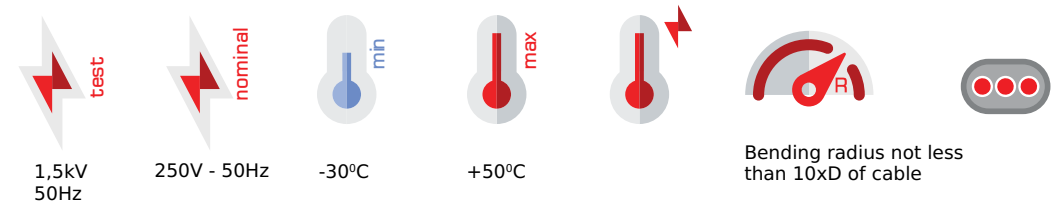
FOREIGN ANALOGUE

ПУНП ТУ 16К80-06-89 | Т.С 05758730.011-99

APPLICATION

For fixed installation in the lighting network, internal wiring under plaster. Also for connecting electric household devices

H05VVH2-U - Fire Retardant in single layer
H05VVH2-FR-LS Fire Retardant in Multi layer



1,5kV 50Hz | 250V - 50Hz | -30°C | +50°C | Bending radius not less than 10xD of cable

- Installation temperature: not less than -15°C.
- The insulation is resistant to cracking: +70°C
- The conductor is resistant to 100% relative air humidity under +35°C.

CONSTRUCTION

Conductor core section 1.5-4.0 mm² are made with single core 1 class flexibility, according to the Gost standard IEC 60228:2004.
Number of cores in the conductor 2,3

THE CONSTRUCTION LENGHT OF THE CABLE

not less than 50m

PACKING

On wooden drum or bundles (coils).

LABELING

Insulated cores are made of different colors, an inscription is made on the sheath of the conductor: “JSC Sakcable”, conductor brand, metric.

SERVICE LIFETIME

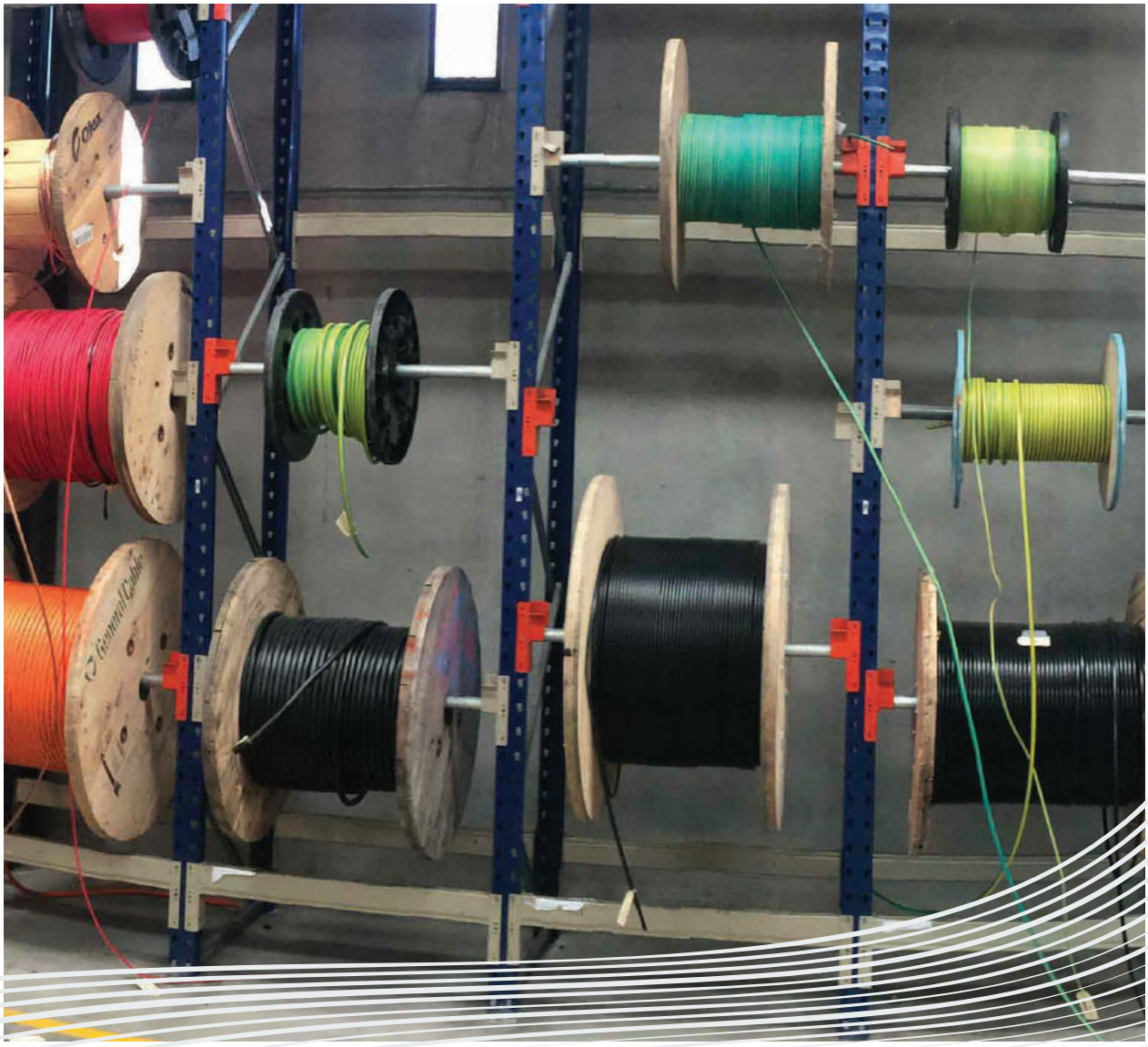
not less than 15 years

WARRANTY PERIOD

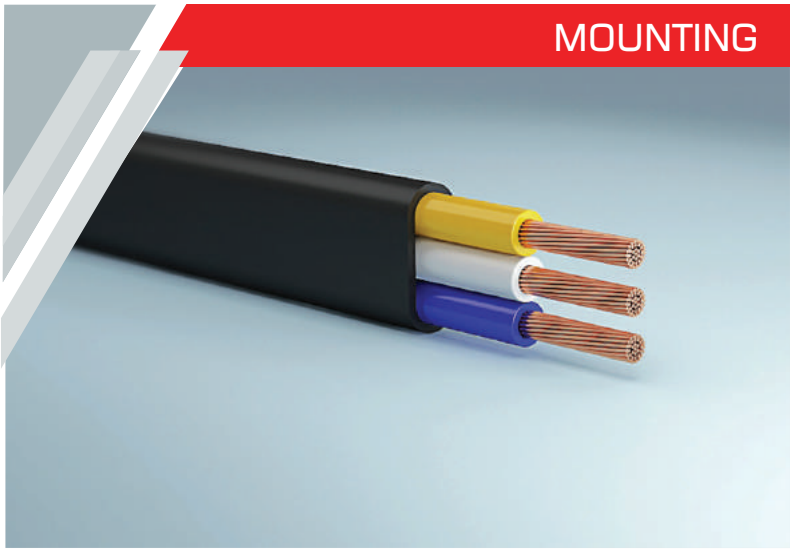
2 years after entering into service, in the proper installation and working conditions.

H05VVH2-U

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
2X1.0	18,1	18	0,6	0,9	4,1	41	17,8	48,85
2X1.5	12,1	24	0,6	0,9	4,35	44	26,8	61,03
2X2.5	7,41	33	0,7	0,9	4,73	47	44,6	82,96
2X4.0	4,61	44	0,7	0,9	5,39	54	71,2	120,24
3X1.0	18,1	16	0,6	0,9	4,1	41	26,7	70,31
3X1.5	12,1	21	0,6	0,9	4,35	44	40,2	88,57
3X2.5	7,41	28	0,7	0,9	4,73	47	66,9	121,5
3X4.0	4,61	37	0,7	0,9	5,39	54	106,8	177,58



MOUNTING



H05VVH2-F

STANDARD	EN 50525-2-11-2014

Mounting Copper flexible conductor , with polyvinylchloride insulation and sheath, flat.

H05VVH2-F FR LS

STANDARD	

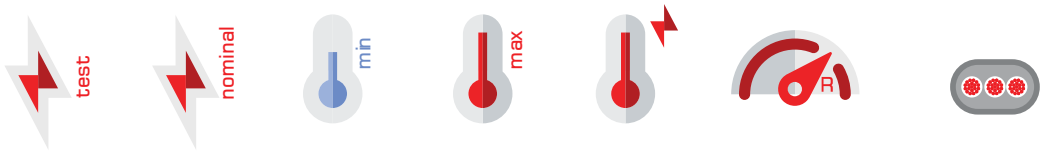
The same as H05VVH2-F , but with low gas and Smoke polyvinylchloride insulation and sheath

FOREIGN ANALOGUE
ПУГНП ТУ 16К80-06-89 | ТУ 05758730.011-99

APPLICATION

For fixed and non-fixed installation in the lighting network , internal wiring under plaster. Also for connecting of different household devices, with expected frequent bending of the conductor

H05VVH2-F - Fire Retardant in single layer
H05VVH2-F LS - Fire Retardant in Multi layer



1,5kV 50Hz | 250V- 50Hz | -30°C | +50°C | Bending radius not less than 10xD of cable

- Installation temperature: not less than -15°C.
- The allowed temperature of heating of the core: +70°C.
- The conductor is resistant to 100% relative air humidity under +35°C.

CONSTRUCTION

The copper cores with cross section 0.75-4.0mm2 are produced with multi- wire class 5 , according to the standard IEC 60228: 2004 Number of cores: 2,3

THE CONSTRUCTION LENGHT OF THE CABLE

not less than 50m

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, conductor cores differ in colors, where on external surface an inscription is made: “JSC Sakcable” cable brand, year of production, metric.

SERVICE LIFETIME

not less than 15 years

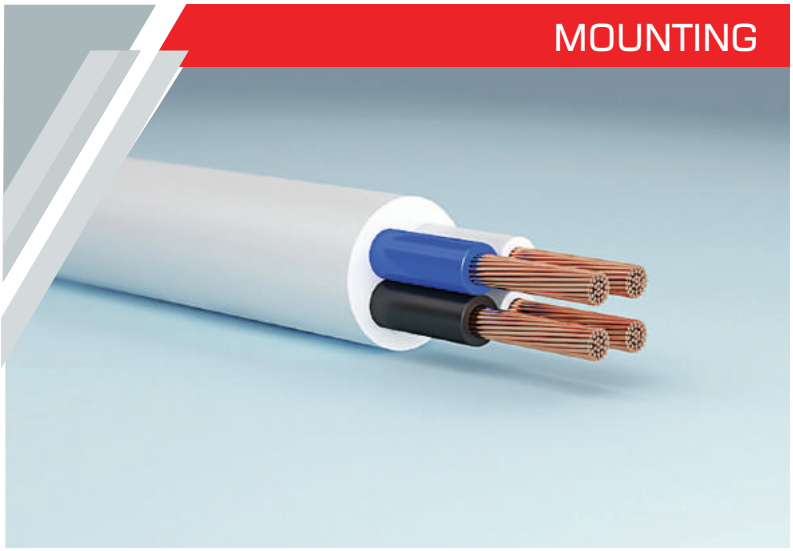
WARRANTY PERIOD

2 years after entering into service, in the proper installation and working conditions.

H05VVH2-F

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
2X0.75	25,2	16	0,6	0,9	4.08	41	13,4	45,28
2X1	19,8	18	0,6	0,9	4.22	42	17,8	51,13
2X1.5	13,2	24	0,6	0,9	4.57	46	26,8	65,6
2X2.5	8,05	33	0,7	0,9	5.03	50	44,5	88,84
2X4	4,89	44	0,7	0,9	5.66	57	71,2	127,12
3X0.75	25,2	14	0,6	0,9	4.08	41	20,1	64,95
3X1.0	19,8	16	0,6	0,9	4.22	42	26,7	73,73
3x1.5	13,2	21	0,6	0,9	4.57	46	40,2	95,45
3X2.5	8,05	28	0,7	0,9	5.03	50	66,8	130,38
3X4.0	4,89	37	0,7	0,9	5.66	57	106,8	188,01

MOUNTING



H05VV-F

Copper multi-core flexible conductor with poly-vinylchloride insulation and polyvinylchloride sheath

H05VV-F-FR-LS

The same as PVS , but with low gas and Smoke polyvinylchloride insulation and sheath

STANDARD	EN 50525-2-11-2014

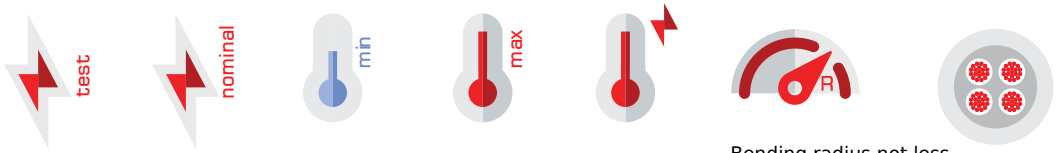
FOREIGN ANALOGUE

ПВС GOST 7399-97
H03 VV-F STANDARDDIN VDE 0281-5

APPLICATION

For the connection of light electrical appliances (table and standing lamps, kitchen appliances, domestic vacuum cleaners, office appliances, radios etc.) at low mechanical stresses in households, kitchens and offices

H05VV-F - Fire Retardant in single layer
H05VV-F FR-LS Fire Retardant in Multi layer



2,0 kv | 380 V for system 380/660V | -25ºC | +40ºC | Bending radius not less than 10xD of cable

- Installation temperature: not less than -15ºC.
- The insulation is resistant to cracking: +70ºC
- The conductor is resistant to 100% relative air humidity under +35ºC.

CONSTRUCTION

The cores are made with twisted multi-wire copper with not less than 5 class flexibility, according to the standard IEC 60228:2004. Section of the conductor core 0,75-16mm²
Number of cores in the conductor 2,3,4,5

THE CONSTRUCTION LENGHT OF THE CABLE

not less than 50m

PACKING On wooden drum or bundles (coils).

LABELING

The insulated cores are made of different colors, an inscription is made on the cover of the conductor “JSC Sakcable” cable brand, year of production, metric.

SERVICE LIFETIME

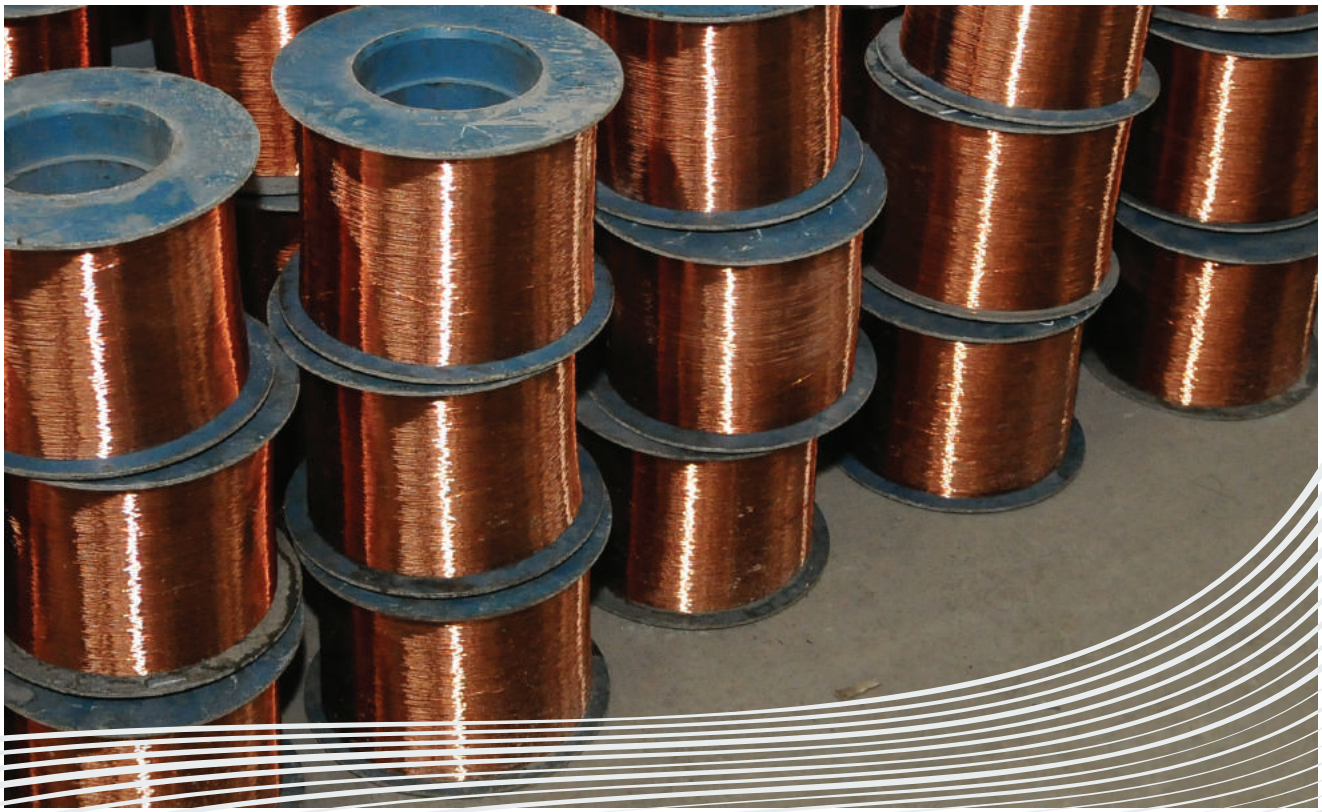
not less than 15 years

WARRANTY PERIOD

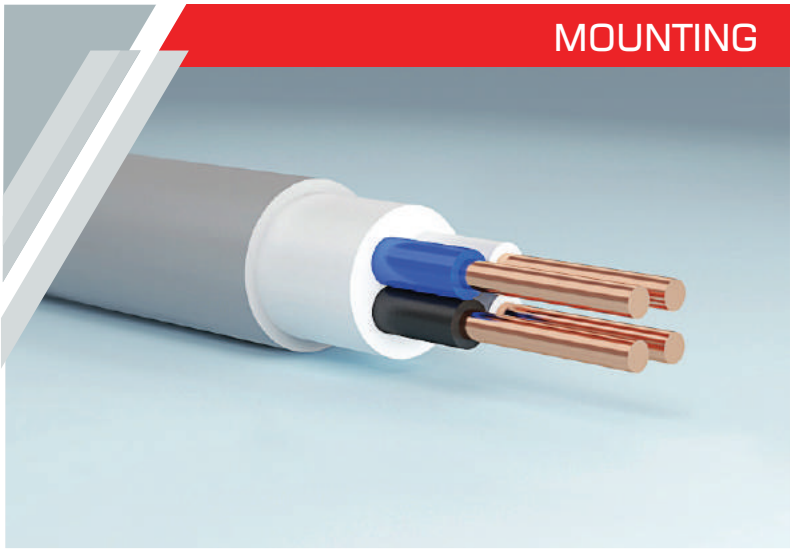
2 years after entering into service, in the proper installation and working conditions.

H05VV-F EN 50525

Part name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weight [kg/km]	Weight [kg/km]
2X0.75	26	6	0.6	0.8	6.20	40	13.8	56.56
2X1.0	19.5	10	0.6	0.8	6.50	40	18.1	63.83
2X1.5	13.3	16	0.7	0.8	7.20	60	26.6	82.31
2X2.5	7.98	25	0.8	1.0	8.50	60	44.2	119.62
2X4.0	6.46	32	0.9	1.1	10.0	60	71.2	173.44
2X6.0	3.30	45	0.9	1.1	11.90	60	106.6	248.07
2X10	1.91	60	1.0	1.20	14.60	60	178	383.36
2X16	1.21	82	1.1	1.20	18.60	60	285	627.66
3X0.75	26	6	0.6	0.8	6.50	40	20.7	67.49
3X1.0	19.5	10	0.6	0.8	6.80	40	27.15	76.99
3X1.5	13.3	16	0.7	0.9	7.80	60	41.1	104.50
3X2.5	7.98	25	0.8	1.10	9.20	60	70	151.94
3X4.0	6.46	32	0.9	1.20	10.70	60	112	222.20
3X6.0	3.30	45	0.9	1.20	12.80	60	168	318.36
3X10	1.91	60	1.0	1.20	15.50	60	280	485.54
3X16	1.21	82	1.1	1.30	20.10	60	448	807.03
4X0.75	26	6	0.6	0.8	7.10	40	28	81.51
4X1.0	19.5	10	0.6	0.9	7.70	40	37	97.19
4X1.5	13.3	16	0.7	1.0	8.70	60	56	131.67
4X2.5	7.98	25	0.8	1.1	10.0	60	93	185.91
4X4.0	6.46	32	0.9	1.30	11.90	60	150	279.72
4X6.0	3.30	45	0.9	1.30	14.20	60	224	401.28
4X10	1.91	60	1.0	1.40	17.40	60	374	621.95
4X16	1.21	82	1.1	1.70	23.00	60	598	1051.57
5X0.75	26	6	0.6	0.90	8.0	40	35	103.63
5X1.0	19.5	10	0.6	0.90	8.33	40	46	118.45
5X1.5	13.3	16	0.7	1.10	9.70	60	70	167.23
5X2.5	7.98	25	0.8	1.20	11.20	60	117	235.13
5X4.0	6.46	32	0.9	1.50	13.50	60	187	355.81
5X6.0	3.30	45	0.9	1.60	16.20	60	280	517.07
5X10	1.91	60	1.0	1.7.	19.80	60	467	790.39
5X16	1.21	82	1.1	1.90	25.70	60	747	1305.96



MOUNTING

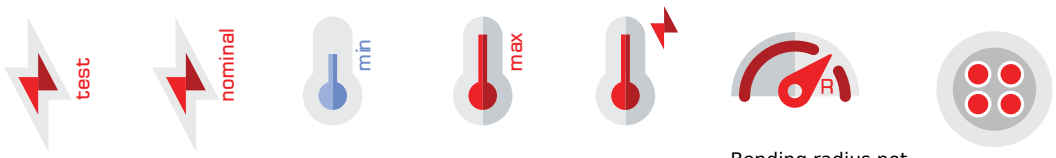


NYM	
STANDARD	DIN VDE 0250-204
FOREIGN ANALOGUE	
ВВГ з стандарт 16642-80	

Cable with Copper core, polyvinylchloride insulation, and polyvinylchloride sheath

APPLICATION

The industrial and power from a stationary installation inside the building and on the air. Out of buildings can be used if there is no sunlight influence on cables. Can be used on the wall or under, dry, damp and wet buildings. It can be laying into channels without influence of stretching forces. Cable has a filler, it is fire residence and flexible



2kV 50Hz	300/500V 50Hz	-40°C	+70°C	Bending radius not less than 4xD of cable

- Installation temperature: -5°C.
- The conductor is resistant to 98% relative air humidity under +35°C conditions
- Conductive lobe for long-term allowable heating temperature +70°C.

CONSTRUCTION

The copper cores with section 1,5-6mm² inclusive are produced with single wire of 1 class flexibility, 10-35mm² inclusive with twisted multi-core wires (7 wires) of 2 class flexibility, according to standard Gost IEC 60228 – 2004 Number of cores in the cable 1:5

THE CONSTRUCTION LENGTH OF THE CABLES

not less than 100m
The construction length of the cable may be agreed with the customer

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, manufacture year. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

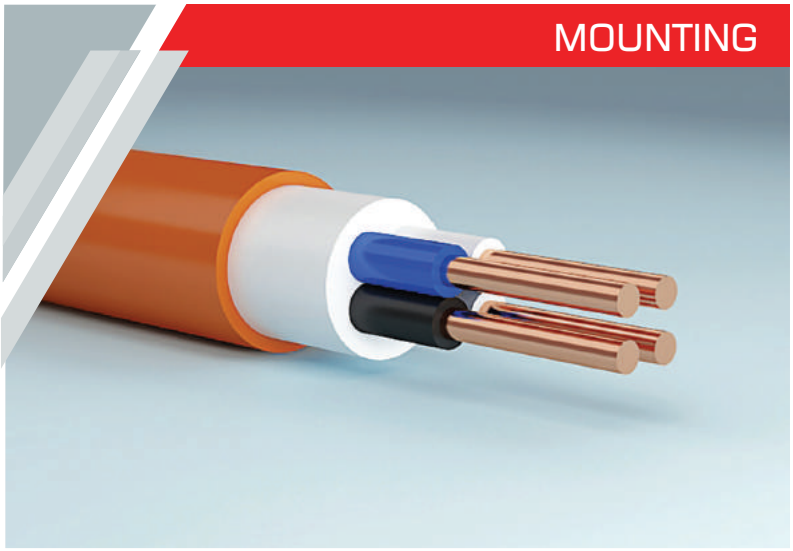
5 years after entering into exploitation, In the proper installation and working conditions

NYM

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
2X1.5 re	12,1	19	0,6	1,4	8,8	35	26,80	123,89
2X2.5 re	7,41	27	0,7	1,4	9,6	38	44,60	168,6
3X1.5 re	12,1	19	0,6	1,4	9,2	37	41,4	141,57
3X2.5 re	7,41	25	0,7	1,4	10,1	40	68,9	196,27
3X4 re	4,64	35	0,8	1,4	11,0	44	110	291,18
3x6 re	3,08	42	0,8	1,6	13,2	53	164,85	403,2
3x10 rm	1,83	55	1,0	1,6	17,2	69	274,7	670,24
4X1.5 re	12,1	17	0,6	1,4	9,9	40	55,2	183,47
4X2.5 re	7,41	23	0,7	1,4	10,8	43	91,87	253,36
4X4 re	4,64	32	0,8	1,4	11,9	48	146,67	360,33
4x6 re	3,08	39	0,8	1,6	14,2	57	219,8	500,91
4x10 rm	1,83	51	1,0	1,6	18,5	74	366,26	843,25
5X1.5 re	12,1	17	0,6	1,4	10,5	42	69,01	224,21
5X2.5 re	7,41	23	0,7	1,4	11,6	46	114,85	309,72
5X4 re	4,64	32	0,8	1,4	12,4	50	183,34	439,09
5x6 re	3,08	39	0,8	1,6	15,2	61	274,75	596,88
5x10 rm	1,83	51	1,0	1,6	20,2	81	457,84	1019,24

re - Single-core
rm - Multi-core

MOUNTING



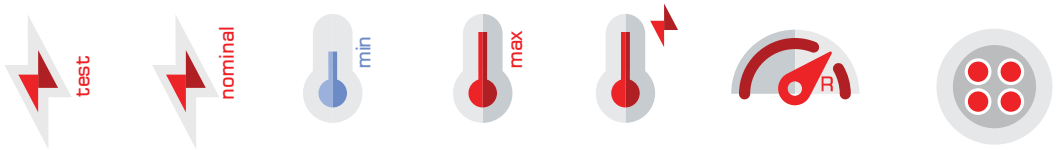
NHXMH	
STANDARD	DIN VDE 0250-214
FOREIGN ANALOGUE	
ППГ нг-HF | ту 16 к71-304-2001 | GOST 53769-2010	

Mounting copper cable, with polyethylene (XLPE) insulation and sheath, with halogen-free compound

- **NHXMH** Fire Retardant in Multi layer
- Cable does not spread suffocating and corrosion gas

APPLICATION

Low-smoke, zero-halogen, flame-retardant building wire for installation on and under plaster, in cable ducts and conduits. For indoor use only



2kV 50Hz	300/500V 50Hz	-30°C	+70°C	Bending radius not less than 15xD of cable (single core) 12xD (Multi-core)

- Installation temperature: -15°C.
- The conductor is resistant to 98% relative air humidity under +35°C conditions
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not exceed 250°C.
- Conductive lobe for long-term allowable heating temperature +70°C.

CONSTRUCTION

Copper wire cross-section 1.5-6mm² are made with single-core with 1 class flexibility, according to the standard IEK60228:2004; Cross-section 16:35mm² are made of twisted multi-core with 2 class flexibility, according to the standard IEC60228:2004. Cable is round. It's possible to Production with flay construction

THE CONSTRUCTION LENGTH OF THE CABLES

not less than 100m

PACKING

On wooden drum or bundles (coils).

LABELING

The insulated cores are made of different colors, an inscription is made on the cover of the conductor "JSC Sakcable" cable brand, year of production. The wires differ by insulation color or by digits.

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

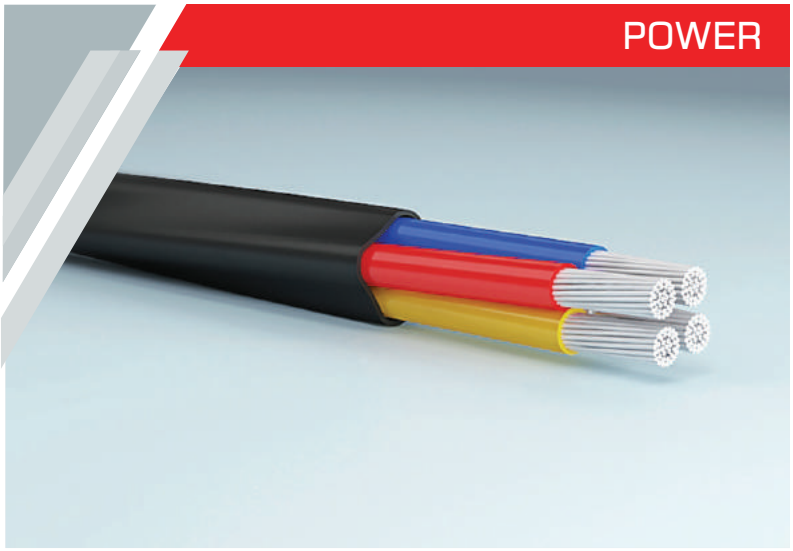
5 years after entering into exploitation, In the proper installation and working conditions

NHXMH

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
1 x 1,5 re	12,1	27	0,5	1,2	4,76	71	13,4	36,59
1 x 2,5 re	7,41	35	0,5	1,2	5,13	77	22,3	47,29
1 x 4 re	4,61	48	0,6	1,2	5,79	87	35,6	65,41
1 x 6 re	3,08	58	0,6	1,2	6,3	94	53,35	86,72
1 x 10 rm	1,83	93	0,7	1,2	7,79	117	88,9	137,44
1 x 16 rm	1,15	116	0,7	1,2	9,21	138	142,3	203,19
2 x 1,5 re	12,1	24	0,5	1,2	8,12	97	26,8	105,48
2 x 2,5 re	7,41	33	0,5	1,2	8,86	106	44,6	135,03
2 x 4 re	4,61	44	0,6	1,2	10,78	129	71,2	206,48
2 x 6 re	3,08	56	0,6	1,2	12,2	146	106,7	279,99
2 x 10 rm	1,83	76	0,7	1,26	15,3	184	177,8	447,37
2 x 16 rm	1,15	101	0,7	1,3	18,62	223	284,6	676,84
2 x 25 rm	0,727	134	0,9	1,38	21,66	260	444,5	968,61
3 x 1,5 re	12,1	22	0,5	1,2	8,47	102	41,4	121,24
3 x 2,5 re	7,41	29	0,5	1,2	9,27	111	68,9	159,06
3 x 4 re	4,61	41	0,6	1,2	11,29	135	110	244,61
3 x 6 re	3,08	49	0,6	1,22	12,83	154	164,85	337,89
3 x 10 rm	1,83	64	0,7	1,28	16,45	197	274,7	558,7
3 x 16 rm	1,15	87	0,7	1,33	19,9	239	439,7	838,52
3 x 25 rm	0,727	110	0,9	1,41	23,24	279	686,75	1220,4
3 x35 rm	0,524	139	0,9	1,46	26,15	314	961,6	1604,26
4 x 1,5 re	12,1	20	0,5	1,2	9,69	116	55,2	158,72
4 x 2,5 re	7,41	27	0,5	1,2	10,58	127	91,87	207,62
4 x 4 re	4,61	37	0,6	1,21	12,17	146	146,67	292,32
4 x 6 re	3,08	45	0,6	1,25	14,3	172	219,8	425,68
4 x 10 rm	1,83	59	0,7	1,32	18,63	224	366,26	716,63
4 x 16 rm	1,15	80	0,7	1,37	22,15	266	586,27	1050,13
4 x 25 rm	0,727	101	0,9	1,46	26,04	312	915,67	1546,99
4 x35 rm	0,524	128	0,9	1,53	29,34	352	1282,14	2036,83
5 x 1,5 re	12,1	20	0,5	1,2	10,77	129	69,01	195,05
5 x 2,5 re	7,41	27	0,5	1,2	11,77	141	114,85	255,23
5 x 4 re	4,61	37	0,6	1,2	13,65	164	183,34	362,41
5 x 6 re	3,08	45	0,6	1,27	15,67	188	274,75	511,08
5 x 10 rm	1,83	59	0,7	1,36	20,67	248	457,84	873,09
5 x 16 rm	1,15	80	0,7	1,42	24,83	298	732,85	1295,37
5 x 25 rm	0,727	101	0,9	1,52	28,91	347	1144,59	1884,14
5 x35 rm	0,524	128	0,9	1,59	32,59	391	1602,68	2481,67

re - Single-core
rm - Multi-core

POWER



AVVG

Power cable with aluminum core, polyvinylchloride insulation and polyvinylchloride sheath

AVVG-HF

Same as AVVG, but sheeted is made with fire retardant polyvinylchloride insulation

AVVG-HF-LS

The same as AVVG , but with low gas and Smoke polyvinylchloride insulation

STANDARD	GOST 16442-80 31996-2012

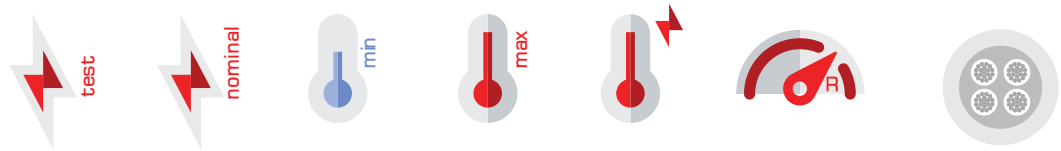
FOREIGN ANALOGUE

АВВГ GOST 16442-80 | NAYY DIN VDE0276 Part 603

- **AVVG** Fire Retardant in single layer
- **AVVG-HF ; AVVG-HF-LS** Fire Retardant in Multi layer

APPLICATION

For fixed and unfixed installation indoors, outdoors, in ground and in water



0,660kv -3kv 50HZ 1,0kv - 3,5kv 50 HZ	0,660 - 1kV 50HZ	-50°C	+50°C	Bending radius not less than 10xD of cable (single-wire cable); 7,5xD cable (multi-wire cable)

- Installation temperature: -15°C.
- Conductive lobe for long-term allowable heating temperature +70°C
- The conductor is resistant to 98% relative air humidity under +35°C conditions
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not be above 160°C

CONSTRUCTION

The aluminum cores with section 2,5-50mm² inclusive are made of single wire with 1st class flexibility, 70-240mm² inclusive with twisted multi-core wires with 2 class flexibility, according to Gost standard 22483-77. Number of cores in the cable 1,2,3,4,5

THE CONSTRUCTION LENGTH OF THE CABLES

nominal section of the main cores: 2,5-up to 16mm² - 450m;
25-up to 70mm² - 300m;
95-up to 240mm² - 200m

In case of supply in drums the construction length is agreed with the customer.

PACKING On wooden drum or bundles

LABELING

The insulated cores are made of different colors, an inscription is made on the cover of the conductor “JSC Sakcable” cable brand, year of production. Labelling of cores with colors or figures 0,1,2,3,4.

SERVICE LIFETIME	WARRANTY PERIOD
not less than 30 years	5 years after entering into exploitation, In the proper installation and working conditions

AVVG GOST 16442-80 31996-2012

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
1 x 2,5 re	12,1	22	0,6	1,20	5,4	54	6,75	37,21
1 x 4 re	7,41	30	0,7	1,20	6,3	63	10,8	48,22
1 x 6 re	5,11	37	0,7	1,20	7	70	16,2	57,82
1 x 10 re	3,08	50	0,9	1,50	8,3	83	27	80,49
1 x 16 re	1,91	68	0,9	1,50	9,5	95	43,2	118,59
1 x 16 rm	1,91	68	0,9	1,50	10,2	102	43,84	130,52
1 x 25 re	1,20	92	1,1	1,50	11,1	111	67,5	165,22
1 x 25 rm	1,20	92	1,1	1,50	12	120	68,52	182,22
1 x35 re	0,868	113	1,1	1,50	12,2	122	94,5	201,52
1 x35 rm	0,868	113	1,1	1,50	12,8	128	95,92	222,24
1 x 50 re	0,641	139	1,3	1,50	13,4	134	135	260,67
1 x 50 rm	0,641	139	1,3	1,50	14,1	141	137	284,77
1 x 70 rm	0,443	176	1,4	1,50	16,35	164	189	373,04
1 x95 rm	0,320	217	1,5	1,50	18,3	183	256,5	478,44
1 x 120 rm	0,253	253	1,5	1,70	20,6	206	324	591,73
1 x 150 rm	0,206	290	1,6	1,70	22,1	221	405	696,19
1 x 185 rm	0,164	336	1,7	1,90	24,75	248	499,5	862,05
1 x 240 rm	0,125	401	1,9	1,90	27,7	277	648	1087,35
3 x 2,5 re	12,1	21	0,6	1,50	9,80	74	20,85	97,29
3 x 4 re	7,41	29	0,7	1,50	11,2	84	33,3	129,73
3 x 6 re	5,11	37	0,7	1,50	12,3	93	50	158,24
3 x 10 re	3,08	50	0,9	1,50	14,8	111	83,4	225,63
3 x 16 re	1,91	67	0,9	1,50	16,85	127	133,5	300,99
3 x 16 rm	1,91	67	0,9	1,50	18,3	138	135,5	333,51
3 x 25 re	1,20	88	1,1	1,70	20,1	151	208,57	434,53
3 x 25 rm	1,20	88	1,1	1,70	22,1	166	211,7	502,57
3 x35 re	0,868	109	1,1	1,70	22,6	170	292	561,4
3 x35 rm	0,868	109	1,1	1,70	24,9	187	296,4	644,63
3 x 50 re	0,641	136	1,3	1,90	26,1	196	417,2	761,85
3 x 50 rm	0,641	136	1,3	1,90	28,7	216	423,4	833,56
3 x 70 rm	0,443	167	1,4	1,90	32,55	245	584	1101,13
3 x95 rm	0,320	204	1,5	2,10	37,3	280	792,6	1457,21
3 x 120 rm	0,253	236	1,5	2,10	40,92	307	1001,2	1745,59
3 x 150 rm	0,206	273	1,6	2,30	45,4	341	1251,4	2105,71
3 x 185 rm	0,164	313	1,7	2,50	49	367	1543,45	2590,06
3 x 240 rm	0,125	369	1,9	2,50	56,2	422	2002,3	3279,23
4 x 2,5 re	12,1	20	0,6	1,50	10,56	79	27,8	116,21
4 x 4 re	7,41	27	0,7	1,50	12,18	92	44,4	157,18
4 x 6 re	5,11	34	0,7	1,50	13,4	101	66,65	193,54
4 x 10 re	3,08	47	0,9	1,50	16,2	122	111,2	279,64
4 x 16 re	1,91	62	0,9	1,70	18,45	139	178	377
4 x 16 rm	1,91	62	0,9	1,70	20,53	154	180,66	437,39
4 x 25 re	1,20	82	1,1	1,70	22,55	170	278	571,19
4 x 25 rm	1,20	82	1,1	1,70	24,72	186	282,27	656,69
4 x35 re	0,868	101	1,1	1,90	25,3	190	389,33	734,88
4 x35 rm	0,868	101	1,1	1,90	27,49	207	395,2	812,87
4 x 50 re	0,641	126	1,3	1,90	28,8	216	556,26	966,75
4 x 50 rm	0,641	126	1,3	1,90	31,53	237	564,43	1057,97
4 x 70 rm	0,443	155	1,4	2,10	36,5	274	778,6	1441,4
4 x95 rm	0,320	190	1,5	2,10	41,38	311	1056,8	1864,54
4 x 120 rm	0,253	219	1,5	2,30	45,6	342	1334,9	2285,18
4 x 150 rm	0,206	254	1,6	2,50	49,1	369	1668,5	2752,15
4 x 185 rm	0,164	291	1,7	2,50	54,5	409	2057,9	3328,22
4 x 240 rm	0,125	343	1,9	2,50	61,50	462	2670	4230,88
5 x 2,5 re	12,1	20	0,6	1,50	11,40	86	34,76	135,78
5 x 4 re	7,41	27	0,7	1,50	13,25	100	55,60	185,43

AVVG GOST 16442-80 31996-2012

Part Name	Conductor resis-tance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diame-ter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
5 x 6 re	5,11	34	0,7	1,50	14,57	110	83,40	229,75
5 x 10 re	3,08	47	0,9	1,50	17,68	133	139,0	334,8
5 x 16 re	1,91	62	0,9	1,70	20,55	154	222,48	473,77
5 x 16 rm	1,91	62	0,9	1,70	22,53	169	225,77	525,55
5 x 25 re	1,20	82	1,1	1,90	25,10	188	347,62	714,31
5 x 25 rm	1,20	82	1,1	1,90	27,20	204	352,88	791,79
5 x35 re	0,868	101	1,1	1,90	27,80	209	486,68	889,03
5 x35 rm	0,868	101	1,1	1,90	30,37	228	493,98	983,79
5 x 50 re	0,641	126	1,3	1,90	31,71	238	695,25	1174,47
5 x 50 rm	0,641	126	1,3	1,90	34,30	257	705,50	1285,51
5 x 70 rm	0,443	155	1,4	2,10	39,70	298	973,35	1754,15
5 x95 rm	0,320	190	1,5	2,10	45,20	339	1320,97	2276,55
5 x 120 rm	0,253	219	1,5	2,30	49,90	374	1668,60	2790,64
5 x 150 rm	0,206	254	1,6	2,50	54,90	412	2085,75	3361,7
5 x 185 rm	0,164	291	1,7	2,50	60,40	453	2572,42	4073,94
5 x 240 rm	0,125	343	1,9	2,50	68,30	512	3337,20	5191,16
3 x 4 + 2,5 re / re	7,41/12,1	29	0,7/ 0,6	1,50	12,25	92	40,32	149,95
3 x 6 + 4 re / re	5,11/7,41	37	0,7/ 0,7	1,50	13,48	101	61,18	186,62
3 x 10 + 6 re / re	3,08/5,11	50	0,9/ 0,7	1,50	15,58	117	100,12	259,24
3 x 16 + 10 re / re	1,91/3,08	67	0 9/ 0,9	1,50	18,55	139	161,29	356,78
3 x 25 + 16 re / re	1,20/1,91	67	1,1 /0,9	1,70	21,95	165	253,73	534,74
3 x35 + 16 re / re	0,868/1,91	88	1,1/ 0,9	1,70	23,50	176	337,16	637,17
3 x 50 + 25 re / re	0,641/1,20	88	1,3/ 1,1	1,90	29,90	224	487,72	877,68
3 x 70 + 35 rm / re	0,443/0,868	109	1,4 /1,2	1,90	34,18	256	681,35	1265,72
3 x95 + 50 rm / re	0,320/0,641	204	1,5/ 1,4	2,10	39,27	295	931,64	1679,51
3 x 120 + 70 rm / rm	0,253/0,443	236	1,5/ 1,4	2,30	43,41	326	1195,43	2089,4
3 x 150 + 95 rm / rm	0,206/0,320	273	1,6/1,5	2,30	47,34	355	1515,64	2526,72
3 x 185 + 95 rm / rm	0,164/0,320	313	1,7/1,6	2,50	52,47	394	1807,65	2997,14
3 x 240 + 120 rm / rm	0,125/0,253	369	1,9/1,5	2,50	59,17	444	2336,00	3081,25

re - Single-core
rm - Multi-core


საქსაბელი
SAKCABLE

POWER

AVVG-P

Power cable with aluminum core, polyvinylchloride insulation and polyvinylchloride sheath, flat.

AVVG-P-HF

Same as AVVG-P, but sheeted is made with fire retardant polyvinylchloride insulation

AVVG-P-LS

The same as AVVG-P , but with low gas and Smoke polyvinylchloride insulation

STANDARD	GOST 16442-80 31996-2012

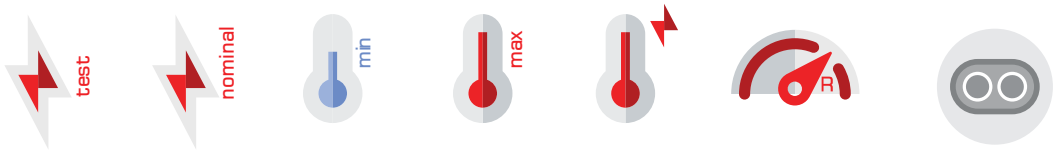
FOREIGN ANALOGUE

АВВГ-П GOST 16442-80 | NAYIFY DIN VDE 0250.201IFY-O DIN VDE 0250.201

- **AVVG-P -** Fire Retardant in single layer
-**AVVG-P-HF | AVVG-P | AVVG-P-LS**
Fire Retardant in Multi layer

APPLICATION

For transmission and distribution of electric power at stationary devices with rated voltage 0,660kV and 1 kV frequency 50Hz. For stretching in the air where there is no danger of mechanical damage of the cable, also for laying into channels without influence of stretching forces



0,660kV-3kV 50Hz 1,0kV-3,5kV 50Hz	0,660kV 1kV-50Hz	-50°C	+50°C	Bending radius not less than 10xD of cable

- Installation temperature: -15°C.
- Conductive lobe for long-term allowable heating temperature +70°C
- The conductor is resistant to 98% relative air humidity under +35°C conditions
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not be above 160°C

CONSTRUCTION

The aluminum cores with section 2,5-25mm² inclusive are produced of single wire of 1 class flexibility according to Gost standard 22483-2012. Number of cores in the cable 2,3.

THE CONSTRUCTION LENGTH OF THE CABLES

in case of supply in bundles the construction length is agreed with the customer.
In case of agreement with the customer cables of different construction lengths can be produced.
2,5-16mm² - up to 450m²
25-300m

PACKING On wooden drum or bundles

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, manufacture year. Labeling of conductive cores with colors or figures 0, 1, 2 inscriptions on the top of insulated cores

SERVICE LIFETIME

not less than 30 years

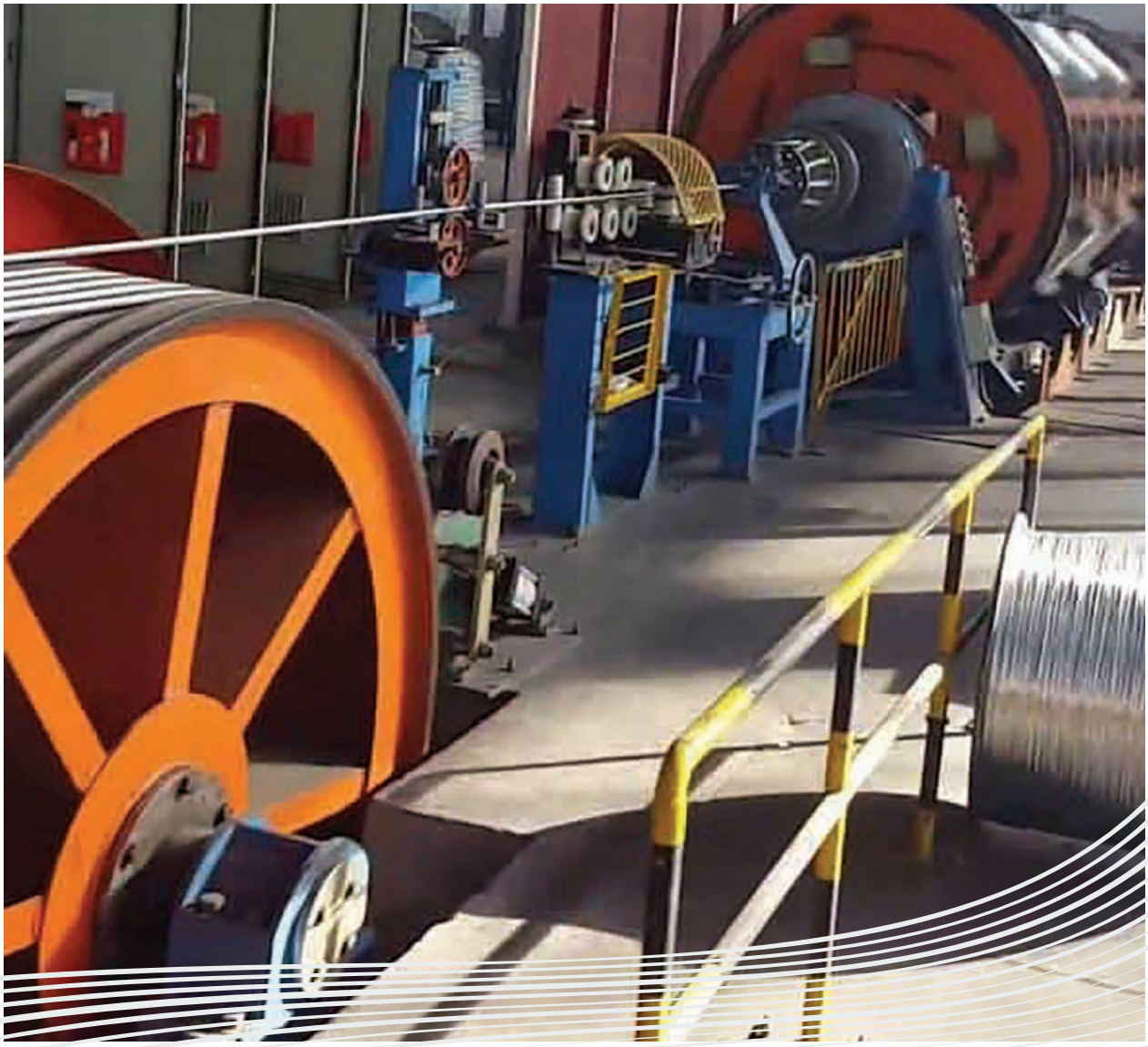
WARRANTY PERIOD

5 years after entering into exploitation, In the proper installation and working conditions

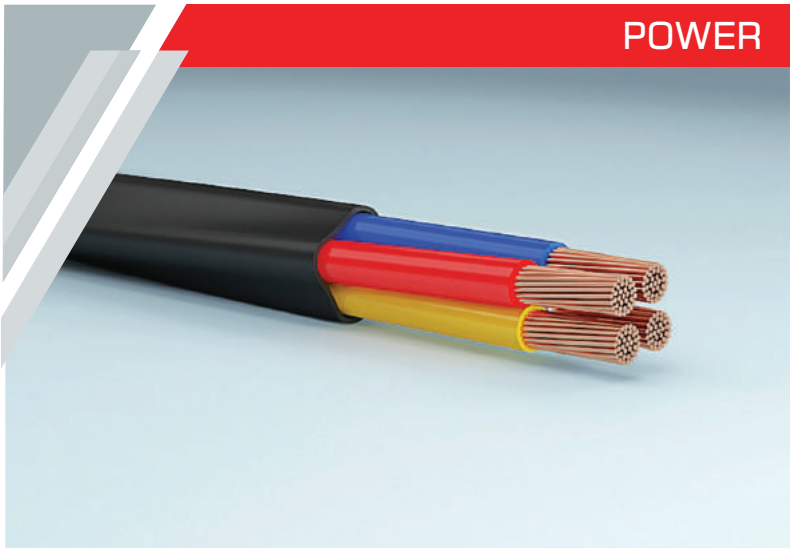
AVVG-P GOST 16442-80 31996-2012

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
2 x 2.5 re	12,1	25	0,6	1,2	5,52 x 8.40	40	13,5	63,99
2 x 4 re	7,41	34	0,7	1,2	6.00 x 9.50	44	21,6	86,06
2 x 6 re	5,11	43	0,7	1,2	6.56 x 10.70	49	32,4	105,48
2 x 10 re	3,08	58	0,9	1,2	7.75 x 13.10	58	54	151,92
2 x 16 re	1,91	77	0,9	1,5	9.30 x 15.60	70	86,4	222,44
2 x 25 re	1,2	103	1,1	1,5	10.80 x 18.60	81	135	318,72

re - Single-core
rm - Multi-core



POWER



VVG

Power cable with copper core, with polyvinyl-chloride insulation and polyvinylchloride sheath

VVG-FR

The same as cable VVG, but with flame retardant polyvinylchloride sheath

VVG-RR-LS

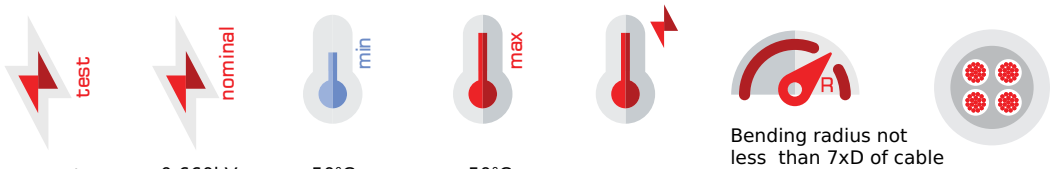
The same as cable VVG, but with flame retardant and fire retardant Insulation polyvinylchloride insulation

STANDARD	GOST 16442-80 31996-2012

FOREIGN ANALOGUE
ВВГ GOST 16442-80 | NYY- стандарт DIN VDE0276 Part 603

APPLICATION

For transmission and distribution of electric power at stationary devices with rated voltage 0,660kV and 1 kV frequency 50Hz. For stretching in the air where there is no danger of mechanical damage of the cable, also for laying into channels without influence of stretching forces. While laying the cables together, they are flame retardant



0,660kV-3kV 50Hz 1,0kV-3,5kV 50Hz	0,660kV 1kV-50Hz	-50°C	+50°C	Bending radius not less than 7xD of cable (multi-wire cable) 10xD (single-core)

- Installation temperature: -15°C.
- Conductive lobe for long-term allowable heating temperature +70°C
- The conductor is resistant to 98% relative air humidity under +35°C conditions
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not be above 160°C

CONSTRUCTION

The copper cores with cross section 1,5-6mm² inclusive are produced with 1 class flexibility,10-240mm² are produced with twisted multi-core 2 calass flexibility according to standard 22483-2012. Number of cores in the cable 1,2,3,4,5.

THE CONSTRUCTION LENGTH OF THE CABLES

Cross section of Main wire:

1.5-6mm²- 450 m
25-70 mm²- 300 m
95-240 mm²-200 m

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, manufacture year. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores

SERVICE LIFETIME	WARRANTY PERIOD
not less than 30 years	5 years after entering into exploitation, In the proper installation and working conditions

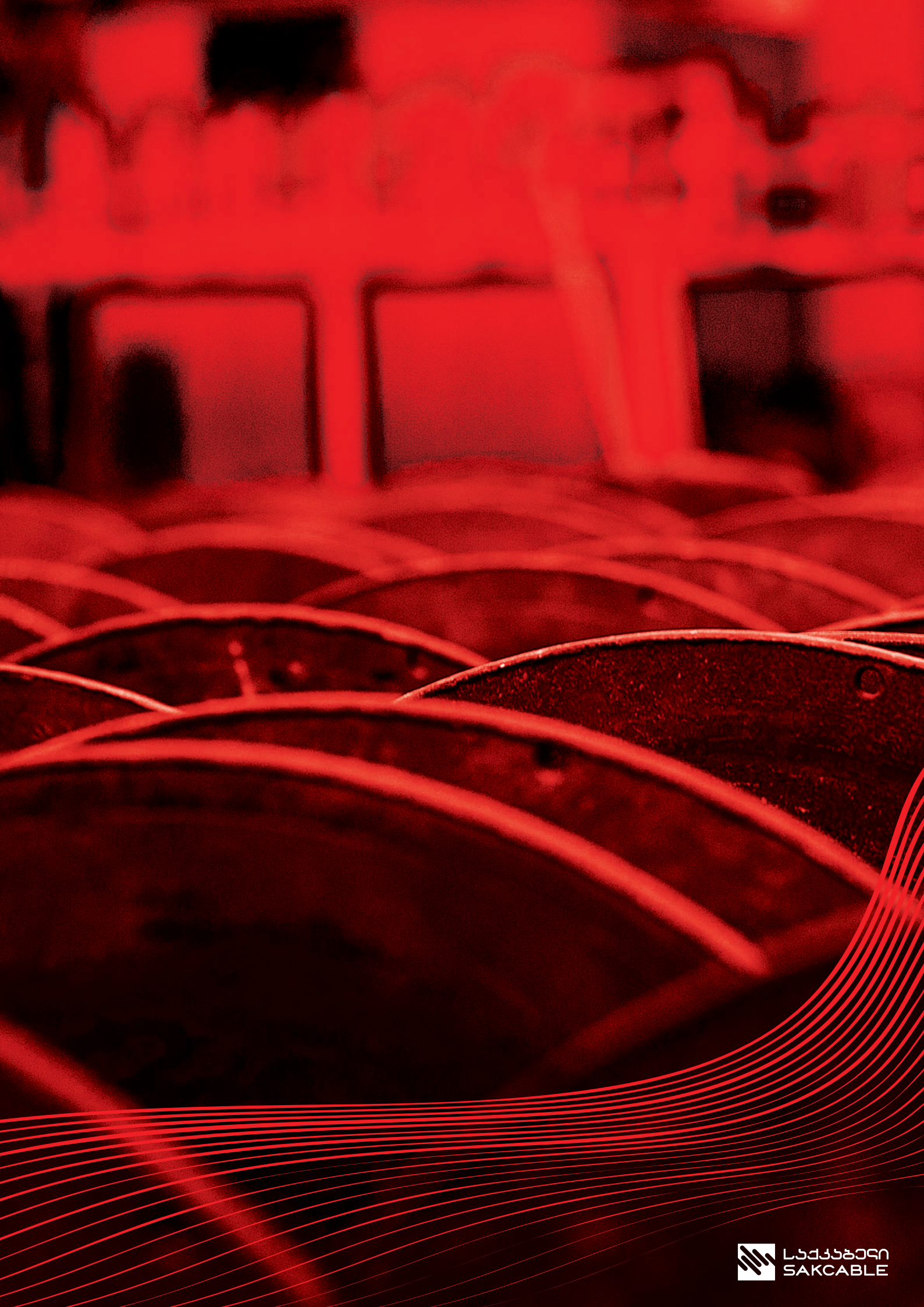
VVG

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
1 x 1,5 re	12,1	22	0,6	1,2	5	50	13,4	39,43
1 x 2,5 re	7,41	30	0,6	1,2	5,4	54	22,3	50,82
1 x 4 re	4,61	39	0,7	1,2	6,08	61	35,6	70,09
1 x 6 re	3,08	50	0,7	1,2	6,6	66	53,35	92,07
1 x 10 rm	1,83	68	0,9	1,2	8,2	82	88,9	149,07
1 x 16 rm	1,15	89	0,9	1,5	9,8	98	142,3	225,39
1 x 25 rm	0,727	121	1,1	1,5	11,4	114	222,25	332,77
1 x35 rm	0,524	147	1,1	1,5	12,6	126	311,2	431
1 x 50 rm	0,387	179	1,3	1,5	14,3	143	444,5	573,95
1 x 70 rm	0,268	226	1,4	1,5	16,2	162	622,3	788,85
1 x95 rm	0,193	280	1,5	1,5	18,3	183	844,6	1053,6
1 x 120 rm	0,153	326	1,5	1,7	20	200	1066,8	1315,66
1 x 150 rm	0,124	373	1,6	1,7	22	220	1333,5	1593,02
1 x 185 rm	0,0991	431	1,7	1,9	24,3	243	1644,7	1978,55
1 x 240 rm	0,0754	512	1,9	1,9	26,8	268	2133,6	2554,22
3 x 1,5 re	12,1	21	0,6	1,5	8,5	64	41,4	106,86
3 x 2,5 re	7,41	28	0,6	1,5	9,4	71	68,9	141,02
3 x 4 re	4,61	37	0,7	1,5	10,8	81	110	200,04
3 x 6 re	3,08	49	0,7	1,5	11,3	85	164,85	263,23
3 x 10 rm	1,83	66	0,9	1,5	15,5	116	274,7	441,13
3 x 16 rm	1,15	87	0,9	1,5	17,6	132	439,7	633,69
3 x 25 rm	0,727	115	1,1	1,7	21,4	161	686,75	976,37
3 x35 rm	0,524	141	1,1	1,7	23,95	180	961,6	1275,54
3 x 50 rm	0,387	177	1,3	1,9	28	210	1373,5	1737,89
3 x 70 rm	0,268	226	1,4	1,9	32	240	1922,9	2398,4
3 x95 rm	0,193	274	1,5	2,1	36,9	277	2609,8	3249,04
3 x 120 rm	0,153	321	1,5	2,3	40	300	3296,4	4040,68
3 x 150 rm	0,124	370	1,6	2,3	44,5	334	4120,5	4896,83
3 x 185 rm	0,0991	421	1,7	2,5	49,1	368	5082,1	6064,71
3 x 240 rm	0,0754	499	1,9	2,5	54,5	409	6592,8	7839,68
4 x 1,5 re	12,1	20	0,6	1,5	9,6	72	55,2	130,24
4 x 2,5 re	7,41	26	0,6	1,5	10,55	79	91,87	174,51
4 x 4 re	4,61	34	0,7	1,5	12,15	91	146,67	251,85
4 x 6 re	3,08	46	0,7	1,5	13,3	100	219,8	339,56
4 x 10 rm	1,83	61	0,9	1,5	17,5	131	366,26	565,16
4 x 16 rm	1,15	80	0,9	1,7	20,2	152	586,27	837,61
4 x 25 rm	0,727	107	1,1	1,7	24	180	915,67	1264,77
4 x35 rm	0,524	131	1,1	1,9	27,2	204	1282,14	1685,67
4 x 50 rm	0,387	165	1,3	1,9	31,4	236	1831,3	2263,02
4 x 70 rm	0,268	210	1,4	2,1	36,3	272	2563,87	3170,75
4 x95 rm	0,193	255	1,5	2,1	41,4	311	3479,75	4252,7
4 x 120 rm	0,153	299	1,5	2,3	44,8	336	4395,21	5291,94
4 x 150 rm	0,124	344	1,6	2,3	49,8	374	5494,02	6424,36
4 x 185 rm	0,0991	392	1,7	2,5	54,9	412	6776,16	7960,31
4 x 240 rm	0,0754	464	1,9	2,5	60,7	455	8790,43	10310,6
5 x 1,5 re	12,1	20	0,6	1,5	10,4	78	69,01	154,19
5 x 2,5 re	7,41	26	0,6	1,5	11,4	86	114,85	208,65
5 x 4 re	4,61	34	0,7	1,5	13,2	99	183,34	303,81
5 x 6 re	3,08	46	0,7	1,5	14,5	109	274,75	412,27
5 x 10 rm	1,83	61	0,9	1,5	19,2	144	457,84	690,46
5 x 16 rm	1,15	80	0,9	1,7	22,3	167	732,85	1025,74
\5 x 25 rm	0,727	107	1,1	1,9	26,9	202	1144,59	1581,31
5 x35 rm	0,524	131	1,1	1,9	30	225	1602,68	2074,7
5 x 50 rm	0,387	165	1,3	1,9	34,5	259	2289,18	2791,33
5 x 70 rm	0,268	210	1,4	2,1	39,9	299	3204,85	3915,26
5 x95 rm	0,193	255	1,5	2,1	45,75	343	4349,69	5261,11
5 x 120 rm	0,153	299	1,5	2,3	49,4	371	5494,02	6548,91
5 x 150 rm	0,124	344	1,6	2,5	55,5	416	6867,53	8012,32
5 x 185 rm	0,0991	392	1,7	2,5	60,8	456	8470,21	9863,51
3 x 2,5 re + 1 x 1,5 re	7,41/12,1	28	0,6/0,6	1,5	10,55	79	82,7	165,13
3 x 4 re + 1 x 2,5 re	4,61/7,41	37	0,7/ 0,6	1,5	12,15	91	132,97	235,85
3 x 6 re + 1 x 4 re	3,08/4,61	49	0,7/ 0,7	1,5	13,2	99	201,52	319,89
3 x 10 rm + 1 x 6 re	1,83/3,08	66	0,9/ 0,7	1,5	17,3	130	329,65	508,49
3 x 16 rm + 1 x 10 rm	1,15/1,83	87	0 9/ 0,9	1,7	20	150	531,27	780,97

VVG

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
3 x 25 rm + 1 x1 6 rm	0,727/1.15	115	1,1 /0,9	1,7	24	180	833,32	1166,46
3 x 35 rm + 1 x1 6 rm	0,524/1,15	141	1,1/ 0,9	1,9	26,8	201	1108,2	1478,16
3 x 50 rm + 1 x25 rm	0,387/0,727	177	1,3/ 1,1	1,9	30,3	227	1602,42	2024,78
3 x 70 rm + 1 x35 rm	0,268/0,524	226	1,4 /1,2	2,1	35,3	265	2443,4	2815,33
3 x 95 rm + 1 x50 rm	0,193/0,387	274	1,5/ 1,4	2,1	40,3	302	3067,64	3771,97
3 x 120 rm + 1 x70 rm	0,153/0,268	321	1,5/ 1,4	2,3	43	323	3939,36	4775,97
3 x 150 rm + 1 x70 rm	0,124/0,268	370	1,6/1,5	2,3	47,3	355	4761,47	5618,48
3 x 185 rm + 1 x95 rm	0,0991/0,193	421	1,7/1,6	2,5	52,8	396	5951,9	7067,86
3 x 240 rm + 1 x120 rm	0,0754/0,153	499	1,9/1,5	2,5	58,2	437	8051,6	9087,7

re - Single-core
rm - Multi-core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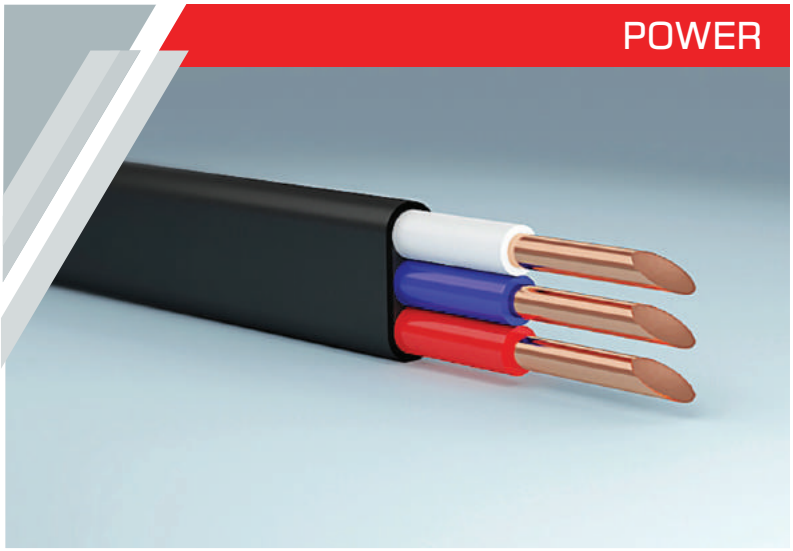
SAKCABLE

POWER



VVG-P

Power cable with copper core, polyvinylchloride insulation and polyvinylchloride sheath, flat

VVG-P-FR

The same as VVG-P, but sheath is made with fire retardant polyvinychloride insulation

VVG-P-FR-LS

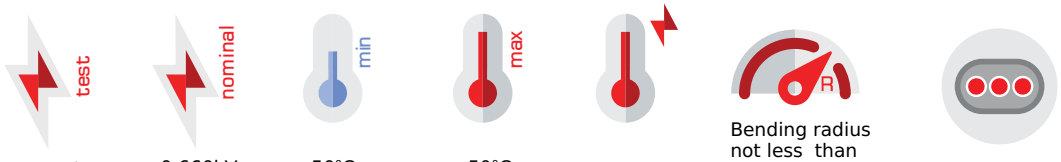
The same as VVG-P, but with low gas and smoke polyvinychloride insulation.

STANDARD	GOST 16442-80 31996-2012
FOREIGN ANALOGUE	ВВГ-П GOST 16442-80 | NYIFY- IEC 60227 / VDE 0250

- **VVG-P** Fire Retardant in single layer
-**VVG-P-HF | VVG-P | -FR-LS** Fire Retardant in Multi layer

APPLICATION

For transmission and distribution of electric power at stationary devices with rated voltage 0,660kV and 1 kV frequency 50Hz. For stretching in the air where there is no danger of mechanical damage of the cable, also for laying into channels without influence of stretching forces. While laying the cables in a single layer, they are flame retardant



0,660kV-3kV 50Hz
1,0kV-3,5kV 50Hz

0,660kV 1kV-50Hz

-50°C

+50°C

Bending radius not less than 7,5xD cable

- Installation temperature: -15°C.
- Conductive lobe for long-term allowable heating temperature +70°C
- The conductor is resistant to 98% relative air humidity under +35°C conditions
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not be above 160°C

CONSTRUCTION

The copper cores with section 2,5-25mm² inclusive are produced of single wire of 1 class flexibility, accorgind to gost standard 22483-2012. Number of cores in the cable 2,3.

THE CONSTRUCTION LENGTH OF THE CABLES

in case of supply in bundles the construction length is agreed with the customer.
On wooden drum no less than 450m.
One batch can contain no more than 20% of cable length not less than 50m.

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, manufacture year. Labeling of conductive cores with colors

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

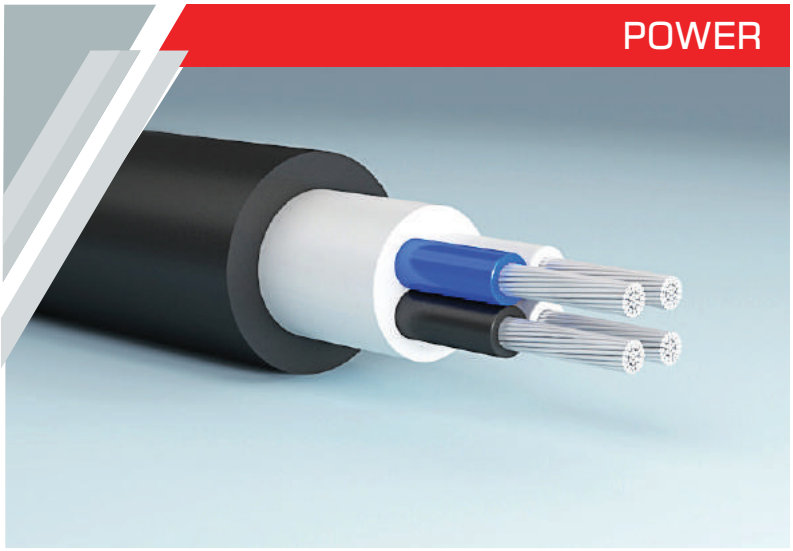
5 years after entering into exploitation, In the proper installation and working conditions

VVG - P GOST 16442-80 31996 2012

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
2 x 6 re	3,08	56	0,7	1,2	7.30 x 12	55	106,70	195,76
2 x 10 rm	1,83	76	0,9	1,2	8.40 x14.20	62	177,8	296,39
2 x 16 rm	1,15	101	0,9	1,5	9.80 x 16.50	74	284,6	423,3
3 x 6 re	3,08	49	0,7	1,2	7.30 x 16.50	55	160,05	288,61
3 x 10 rm	1,15	66	0,9	1,2	8.40 x 20.40	62	266,70	440,28
2 x 6 +1 x 4 re	3.08/4.61	49	0.7 / 0.7	1,2	7.30 x 15.50	55	142,30	253,36
2 x 10 + 1 x 6 rm	1.83/3.08	66	0.9 / 0.7	1,2	8.40 x17.40	62	231,15	379,99

re - Single-core
rm - Multi-core

POWER



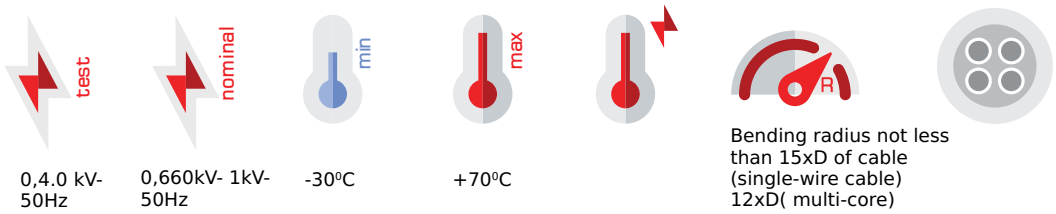
NAYY	
STANDARD	DIN VDE0276 Part 603
FOREIGN ANALOGUE	АВВГ GOST 16442-80 31996-2012

power cable with aluminum core, polyvinylchloride insulation, with filler and polyvinylchloride sheath

APPLICATION

For transmission and distribution of electric power at stationary devices with rated voltage 0,660kV and 1 kV frequency 50Hz. For straining in the air where there is no danger of mechanical damage of the cable, also for laying into channels without influence of stretching forces

- Fire Retardant in Multi layer



0,4.0 kV- 50Hz | 0,660kV- 1kV- 50Hz | -30°C | +70°C | Bending radius not less than 15xD of cable (single-wire cable) 12xD(multi-core)

- Installation temperature: not less than -15°C.
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not exceed 250°C.
- The conductor is resistant to 98% relative air humidity under +35°C conditions
- Conductive lobe for long-term allowable heating temperature +90°C

CONSTRUCTION

The copper cores with section 1,5-6mm² inclusive are produced of single wire of 1 class flexibility, 10-240mm² inclusive with twisted multi-core wires of 2 class flexibility, according to standard IEC 60228:2004. Number of cores in the cable 1,2,3,4,5

THE CONSTRUCTION LENGTH OF THE CABLES

2,5-16mm²-450m;
25-70mm²-300m;
95-240mm²-200m

in case of supply in bundles the construction length is agreed with the customer. In case of agreement with the customer cables of different construction lengths can be produced

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, date of production. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

5 years after entering into exploitation, In the proper installation and working conditions

NAYY

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
1 x 2,5 re	12,1	22	0,6	1,20	5,04	50	6,75	37,21
1 x 4 re	7,41	30	0,7	1,20	5,52	55	10,8	48,22
1 x 6 re	5,11	37	0,7	1,20	6,02	60	16,2	57,82
1 x 10 re	3,08	50	0,9	1,50	7,17	72	27	80,49
1 x 16 re	1,91	68	0,9	1,50	8,68	87	43,2	118,59
1 x 16 rm	1,91	68	0,9	1,50	9,38	94	43,84	130,52
1 x 25 re	1,20	92	1,1	1,50	10,18	102	67,5	165,22
1 x 25 rm	1,20	92	1,1	1,50	11,04	110	68,52	182,22
1 x35 re	0,868	113	1,1	1,50	11,18	119	94,5	201,52
1 x35 rm	0,868	113	1,1	1,50	12,18	122	95,92	222,24
1 x 50 re	0,641	139	1,3	1,50	12,61	126	135	260,67
1 x 50 rm	0,641	139	1,3	1,50	13,76	138	137	284,77
1 x 70 rm	0,443	176	1,4	1,50	15,59	156	189	373,04
1 x95 rm	0,320	217	1,6	1,50	17,5	175	256,5	478,44
1 x 120 rm	0,253	253	1,6	1,70	19,3	193	324	591,73
1 x 150 rm	0,206	290	1,8	1,70	21,08	211	405	696,19
1 x 185 rm	0,164	336	2,0	1,90	23,56	236	499,5	862,05
1 x 240 rm	0,125	401	2,2	1,90	26,44	264	648	1087,35
1 x 300 rm	0,1	464	2,4	2,1	29,46	295	810	1279,36
1 x 400 rm	0,0778	544	2,6	2,3	32,84	329	1080	1597,85
3 x 2,5 re	12,1	21	0,6	1,50	11,98	120	20,85	116,7
3 x 4 re	7,41	29	0,7	1,50	13,44	134	33,3	155,7
3 x 6 re	5,11	37	0,7	1,50	14,5	145	50	189,9
3 x 10 re	3,08	50	0,9	1,50	17,5	175	83,4	270,8
3 x 16 re	1,91	67	0,9	1,50	19,86	199	133,5	361,2
3 x 16 rm	1,91	67	0,9	1,50	21,22	212	135,5	400,2
3 x 25 re	1,20	88	1,1	1,70	23,93	239	208,57	521,4
3 x 25 rm	1,20	88	1,1	1,70	25,63	256	211,7	603,1
3 x35 re	0,868	109	1,1	1,70	27	270	292	673,7
3 x35 rm	0,868	109	1,1	1,70	29,02	290	296,4	773,6
3 x 50 re	0,641	136	1,3	1,90	30,24	302	417,2	914,2
3 x 50 rm	0,641	136	1,3	1,90	32,46	325	423,4	1000,3
3 x 70 rm	0,443	167	1,4	1,90	37,99	380	584	1321,4
3 x95 rm	0,320	204	1,6	2,10	42,35	424	792,6	1748,7
3 x 120 rm	0,253	236	1,6	2,10	46,39	464	1001,2	2094,7
3 x 150 rm	0,206	273	1,8	2,30	49,94	500	1251,4	2526,9
3 x 185 rm	0,164	313	2,0	2,50	54,34	534	1543,45	3108,1
4 x 2,5 re	12,1	20	0,6	1,50	12,74	127	27,8	139,5
4 x 4 re	7,41	27	0,7	1,50	14,38	144	44,4	188,6
4 x 6 re	5,11	34	0,7	1,50	15,56	156	66,65	232,2
4 x 10 re	3,08	47	0,9	1,50	19,22	192	111,2	335,6
4 x 16 re	1,91	62	0,9	1,70	21,46	215	178	452,4
4 x 16 rm	1,91	62	0,9	1,70	22,98	230	180,66	524,9
4 x 25 re	1,20	82	1,1	1,70	25,93	260	278	685,4
4 x 25 rm	1,20	82	1,1	1,70	27,83	278	282,27	788
4 x35 re	0,868	101	1,1	1,90	29,24	293	389,33	881,9
4 x35 rm	0,868	101	1,1	1,90	31,51	315	395,2	975,4
4 x 50 re	0,641	126	1,3	1,90	32,88	329	556,26	1160,1
4 x 50 rm	0,641	126	1,3	1,90	35,72	357	564,43	1269,6
4 x 70 rm	0,443	155	1,4	2,10	41,4	414	778,6	1729,7
4 x95 rm	0,320	190	1,6	2,10	46,67	467	1056,8	2237,4
4 x 120 rm	0,253	219	1,6	2,30	50,77	508	1334,9	2742,2
4 x 150 rm	0,206	254	1,8	2,50	54,75	548	1668,5	3302,6
4 x 185 rm	0,164	291	2,0	2,50	60,05	600	2057,9	3993,9
4 x 240 rm	0,125	343	2,2	2,50	63,43	635	2670	5077,1
5 x 2,5 re	12,1	20	0,6	1,50	13,59	136	34,76	162,9
5 x 4 re	7,41	27	0,7	1,50	15,43	154	55,60	222,5
5 x 6 re	5,11	34	0,7	1,50	16,75	168	83,40	275,7
5 x 10 re	3,08	47	0,9	1,50	20,73	208	139,0	401,8
5 x 16 re	1,91	62	0,9	1,70	23,25	233	222,48	568,5

NAYY

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
5 x 16 rm	1,91	62	0,9	1,70	25,33	253	225,77	630,7
5 x 25 re	1,20	82	1,1	1,90	28,16	282	347,62	857,2
5 x 25 rm	1,20	82	1,1	1,90	30,29	303	352,88	950,1
5 x35 re	0,868	101	1,1	1,90	31,75	318	486,68	1066,8
5 x35 rm	0,868	101	1,1	1,90	34,65	347	493,98	1180,5
5 x 50 re	0,641	126	1,3	1,90	36,19	362	695,25	1409,4
5 x 50 rm	0,641	126	1,3	1,90	38,97	390	705,50	1542,6
5 x 70 rm	0,443	155	1,4	2,10	45,58	455	973,35	2105
5 x95 rm	0,320	190	1,6	2,10	51,07	511	1320,97	2731,9
5 x 120 rm	0,253	219	1,6	2,30	55,66	557	1668,60	3348,8
5 x 150 rm	0,206	254	1,8	2,50	60,47	605	2085,75	4034
5 x 185 rm	0,164	291	2,0	2,50	66,95	670	2572,42	4888,7
3 x 4 + 2,5 re / re	7,41/12,1	29	0,7/0,6	1,50	14,38	144	40,32	179,9
3 x 6 + 4 re / re	5,11/7,41	37	0,7/0,7	1,50	15,76	157	61,18	223,9
3 x 10 + 6 re / re	3,08/5,11	50	0,9/0,7	1,50	18,7	187	100,12	311,1
3 x 16 + 10 re / re	1,91/3,08	67	0,9/0,9	1,50	21,46	215	161,29	428,1
3 x 25 + 16 re / re	1,20/1,91	88	1,1/0,9	1,70	25,93	293	253,73	641,7
3 x35 + 16 re / re	0,868/1,91	109	1,1/0,9	1,70	27,72	277	337,16	764,6
3 x 50 + 25 re / re	0,641/1,20	136	1,3/1,1	1,90	31,22	312	487,72	1053,2
3 x 70 + 35 rm / re	0,443/0,868	167	1,4/1,1	1,90	37,44	375	681,35	1518,9
3 x95 + 50 rm / re	0,320/0,641	204	1,6/1,3	2,10	42,56	426	931,64	2015,4
3 x 120 + 70 rm /rm	0,253/0,443	236	1,6/1,4	2,30	48,78	488	1195,43	2507,3

re - Single-core
rm - Multi-core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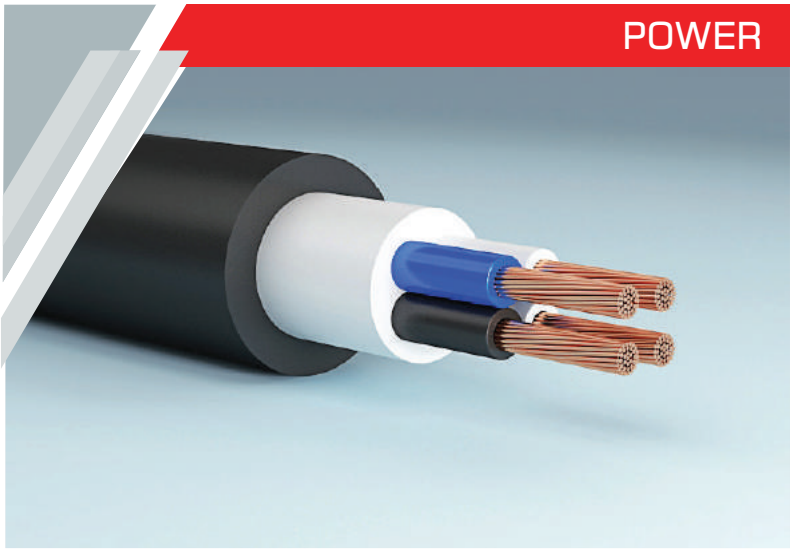
SAKCABLE

POWER

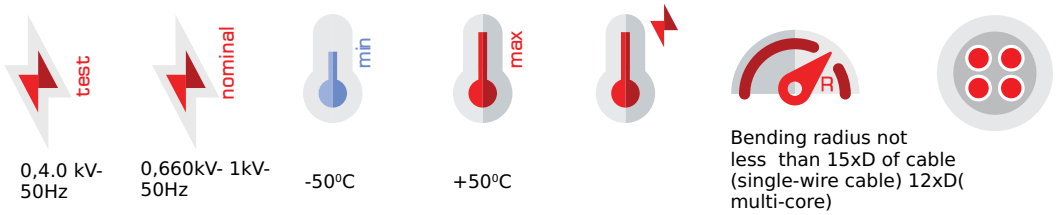


NYY	
STANDARD	DIN VDE0276 Part 603
FOREIGN ANALOGUE	
ВВГ GOST 16442-80 31996-2012	

power cable with aluminum core, polyvinylchloride insulation, with filler and polyvinylchloride sheath

APPLICATION

For transmission and distribution of electric power at stationary devices with rated voltage 0,660kV and 1 kV frequency 50Hz. For straining in the air where there is no danger of mechanical damage of the cable, also for laying into channels without influence of stretching forces



0,4.0 kV-50Hz

0,660kV- 1kV-50Hz

-50°C

+50°C

Bending radius not less than 15xD of cable (single-wire cable) 12xD(multi-core)

- Installation temperature: -15°C.
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not be above 160°C
- The conductor is resistant to 98% relative air humidity under +35°C conditions
- Conductive lobe for long-term allowable heating temperature +70°C

CONSTRUCTION

The aluminum cores with section 2,5-50mm² inclusive are produced with single wire of 1 class flexibility, 70-240mm² inclusive with twisted multi-core wires of 2 class flexibility, according to standard 22483-77. Number of cores in the cable 1,2,3,4,5

THE CONSTRUCTION LENGTH OF THE CABLES

- 2,5-16mm²-450m;
- 25-70mm²-300m;
- 95-240mm²-200m

in case of supply in bundles the construction length is agreed with the customer. In case of agreement with the customer cables of different construction lengths can be produced

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, date of production. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores.

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

5 years after entering into exploitation, In the proper installation and working conditions

NYY DIN VDE0276 Part 603

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
1 x 1,5 re	12,1	22	0,6	1,2	5	50	13,4	39,43
1 x 2,5 re	7,41	30	0,6	1,2	5,4	54	22,3	50,82
1 x 4 re	4,61	39	0,7	1,2	6,08	61	35,6	70,09
1 x 6 re	3,08	50	0,7	1,2	6,6	66	53,35	92,07
1 x 10 rm	1,83	68	0,9	1,2	8,2	82	88,9	149,07
1 x 16 rm	1,15	89	0,9	1,5	9,8	98	142,3	225,39
1 x 25 rm	0,727	121	1,1	1,5	11,4	114	222,25	332,77
1 x35 rm	0,524	147	1,1	1,5	12,6	126	311,2	431
1 x 50 rm	0,387	179	1,3	1,5	14,3	143	444,5	573,95
1 x 70 rm	0,268	226	1,4	1,5	16,2	162	622,3	788,85
1 x95 rm	0,193	280	1,5	1,5	18,3	183	844,6	1053,6
1 x 120 rm	0,153	326	1,5	1,7	20	200	1066,8	1315,66
1 x 150 rm	0,124	373	1,6	1,7	22	220	1333,5	1593,02
1 x 185 rm	0,0991	431	1,7	1,9	24,3	243	1644,7	1978,55
1 x 240 rm	0,0754	512	1,9	1,9	26,8	268	2133,6	2554,22
1x300 rm	0,0601	591	2	1,9	29,38	294	2667	3059,4
1x400 rm	0,047	685	2,2	2	33,02	330	3556	3972,44
1x500 rm	0,0366	792	2,4	2	37,2	372	4445	5084,57
1x630 rm	0,0283	910	2,6	2,1	41,65	416	5600	6487,7
3 x 2,5 re	7,41	25	0,6	1,5	11,4	71	68,9	172,04
3 x 4 re	4,61	35	0,7	1,5	12,8	81	110	244,05
3 x 6 re	3,08	42	0,7	1,5	13,3	85	164,85	321,14
3 x 10 rm	1,83	55	0,9	1,5	17,5	116	274,7	538,18
3 x 16 rm	1,15	75	0,9	1,5	19,6	132	439,7	773,1
3 x 25 rm	0,727	95	1,1	1,7	23,4	161	686,75	1191,17
3 x35 rm	0,524	120	1,1	1,7	25,95	180	961,6	1556,16
3 x 50 rm	0,387	145	1,3	1,9	30	210	1373,5	2120,23
3 x 70 rm	0,268	180	1,4	1,9	35	240	1922,9	2926,05
3 x95 rm	0,193	220	1,5	2,1	39,9	277	2609,8	3963,83
3 x 120 rm	0,153	260	1,5	2,3	43	300	3296,4	4929,63
3 x 150 rm	0,124	305	1,6	2,3	44,5	334	4120,5	5974,13
3 x 185 rm	0,0991	350	1,7	2,5	52,1	368	5082,1	7398,95
4 x 1,5 re	12,1	17	0,6	1,5	11,6	72	55,2	158,9
4 x 2,5 re	7,41	23	0,6	1,5	12,55	79	91,87	212,9
4 x 4 re	4,61	32	0,7	1,5	14,15	91	146,67	307,3
4 x 6 re	3,08	39	0,7	1,5	15,3	100	219,8	414,3
4 x 10 rm	1,83	51	0,9	1,5	19,5	131	366,26	689,5
4 x 16 rm	1,15	69	0,9	1,7	22,2	152	586,27	1021,9
4 x 25 rm	0,727	87	1,1	1,7	26	180	915,67	1543
4 x35 rm	0,524	110	1,1	1,9	29,2	204	1282,14	2056,5
4 x 50 rm	0,387	133	1,3	1,9	34,4	236	1831,3	2760,9
4 x 70 rm	0,268	165	1,4	2,1	39,3	272	2563,87	3868,3
4 x95 rm	0,193	202	1,5	2,1	44,4	311	3479,75	5188,3
4 x 120 rm	0,153	239	1,5	2,3	47,8	336	4395,21	6456,2
4 x 150 rm	0,124	281	1,6	2,3	52,8	374	5494,02	7837,7
4 x 185 rm	0,0991	322	1,7	2,5	57,9	412	6776,16	9711,6
4 x 240 rm	0,0754	484	1,9	2,5	63,7	455	8790,43	12578,9
5 x 1,5 re	12,1	17	0,6	1,5	12,4	78	69,01	188,1
5 x 2,5 re	7,41	23	0,6	1,5	13,4	86	114,85	254,6
5 x 4 re	4,61	32	0,7	1,5	15,2	99	183,34	370,6
5 x 6 re	3,08	39	0,7	1,5	16,5	109	274,75	503
5 x 10 rm	1,83	51	0,9	1,5	21,2	144	457,84	842,4
5 x 16 rm	1,15	69	0,9	1,7	24,3	167	732,85	1251,4
5 x 25 rm	0,727	87	1,1	1,9	28,9	202	1144,59	1929,2
5 x35 rm	0,524	110	1,1	1,9	32	225	1602,68	2531,1
5 x 50 rm	0,387	133	1,3	1,9	37,5	259	2289,18	3405,4

NYY DIN VDE0276 Part 603

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
5 x 70 rm	0,268	165	1,4	2,1	42,9	299	3204,85	4776,6
5 x95 rm	0,193	202	1,5	2,1	48,75	343	4349,69	6418,6
5 x 120 rm	0,153	239	1,5	2,3	52,4	371	5494,02	7989,7
5 x 150 rm	0,124	281	1,6	2,5	58,5	416	6867,53	9775
5 x 185 rm	0,0991	322	1,7	2,5	63,8	456	8470,21	12033,5
3 x 2,5 re + 1 x 1,5 re	7,41/12,1		0,6/0,6	1,5	12,55	79	82,7	201,5
3 x 4 re + 1 x 2,5 re	4,61/7,41		0,7/ 0,6	1,5	14,15	91	132,97	287,7
3 x 6 re + 1 x 4 re	3,08/4,61		0,7/ 0,7	1,5	15,2	99	201,52	390,3
3 x 10 rm + 1 x 6 re	1,83/3,08		0,9/ 0,7	1,5	19,3	130	329,65	620,4
3 x 16 rm + 1 x 10 rm	1,15/1,83		0 9/ 0,9	1,7	22	150	531,27	952,8
3 x 25 rm + 1 x1 6 rm	0,727/1.15		1,1 /0,9	1,7	26	180	833,32	1423,1
3 x 35 rm + 1 x1 6 rm	0,524/1,15		1,1/ 0,9	1,9	28,8	201	1108,2	1803,4
3 x 50 rm + 1 x25 rm	0,387/0,727		1,3/ 1,1	1,9	33,3	227	1602,42	2470,23
3 x 70 rm + 1 x35 rm	0,268/0,524		1,4 /1,2	2,1	38,3	265	2443,4	3434,7
3 x 95 rm + 1 x50 rm	0,193/0,387		1,5/ 1,4	2,1	43,3	302	3067,64	4601,8
3 x 120 rm + 1 x70 rm	0,153/0,268		1,5/ 1,4	2,3	46	323	3939,36	5826,68
3 x 150 rm + 1 x70 rm	0,124/0,268		1,6/1,5	2,3	50,3	355	4761,47	6854,46
3 x 185 rm + 1 x95 rm	0,0991/0,193		1,7/1,6	2,5	55,8	396	5951,9	8622,79
3 x 240rm + 1 x120 rm	0,0754/0,153		1,9/1,5	2,5	61,2	437	8051,6	11080,99

re - Single-core
rm - Multi-core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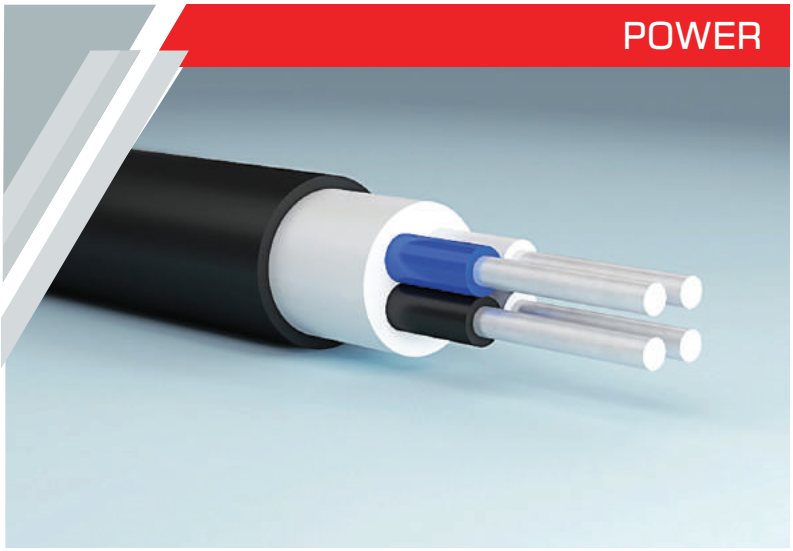
SAKCABLE



POWER

NA2XY

STANDARD	DIN VDE 0276 IEC 60502

FOREIGN ANALOGUE

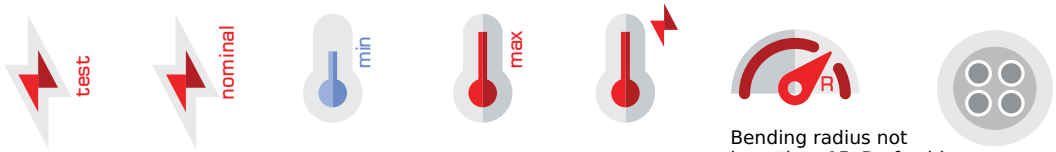
ПвВГ нг - GOST 31996-2012

Power cable with aluminum core, with polyethylene (XLPE) insulation filler and polyvinylchloride sheath

APPLICATION

For laying in ground, open air, in concrete, inside buildings, in cable channels, in electrical stations, in industrial plants and in the commutation systems where there is no danger of mechanical damage of the cable. Because the permissible operating temperature of the conductor is + 90 °C. Core isolation (XLPE) polyethylene provides higher current load

! - Fire Retardant in Multi layer



0,4.0 kV- 50Hz

0,660kV- 1kV- 50Hz

-30°C

+70°C

Bending radius not less than 15xD of cable (single-wire cable) 12xD(multi-core)

- Installation temperature: not less than -15°C.
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not exceed 250°C.
- Conductive lobe for long-term allowable heating temperature +90°C

CONSTRUCTION

The aluminum cores with section 2,5-16mm² inclusive are produced of single wire of 1 class flexibility, 25-240mm² inclusive with twisted multi-core wires of 2 class flexibility, according to standard IEC 60228 : 2004. Number of cores in the cable 1,2,3,4,5.

THE CONSTRUCTION LENGTH OF THE CABLES

agreed with the customer

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, date of production. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

5 years after entering into exploitation, In the proper installation and working conditions

NA2XY

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
1 x 2,5 re	12,1	26	0,7	1,8	6,73	101	6,75	54,84
1 x 4 re	7,41	35	0,7	1,8	7,2	108	10,80	63,87
1 x 6 re	5,11	43	0,7	1,8	7,7	115	16,20	74,5
1 x 10 re	3,08	58	0,7	1,8	8,45	127	27,0	93,95
1 x 16 re	1,91	79	0,7	1,8	9,4	141	43,20	120,59
1 x 25 rm	1,2	112	0,9	1,8	11,67	175	68,65	174,37
1 x35 rm	0,868	138	0,9	1,8	12,98	195	95,92	217,72
1 x 50 rm	0,641	171	1	1,8	14,3	215	137,0	269,29
1 x 70 rm	0,443	216	1,1	1,8	16,15	242	189	347,89
1 x95 rm	0,32	267	1,1	1,8	17,95	269	256,5	438,17
1 x 120 rm	0,253	313	1,3	1,8	19,85	298	324	534,13
1 x 150 rm	0,206	360	1,4	1,8	21,7	326	405	637,54
1 x 185 rm	0,164	419	1,7	1,8	23,95	359	499,5	777,96
1 x 240 rm	0,125	501	1,8	1,8	26,65	400	648	973,71
1x300 rm	0,1	580	1,8	1,8	29,25	439	810,0	1177,84
1x400 rm	0,778	682	2	1,9	32,79	492	1080,0	1485,61
1x500 rm	0,0605	800	2,2	2,0	36,75	551	1350	1874,85
1x630 rm	0,0469	936	2,4	2,2	41,42	622	1701	2387,63
2X2.5 re	12,1	25	0,7	1,8	10,86	130	13,5	154,01
2X4 re	7,41	34	0,7	1,8	12,4	149	21,6	205,93
2X6 re	5,11	43	0,7	1,8	13,8	166	32,4	260,06
2X10 re	3,08	58	0,7	1,8	15,3	184	54	329,09
2X16 re	1,91	78	0,7	1,8	17,6	211	86,4	446,24
3X2.5 re	12,1	24	0,7	1,8	11,33	136	20,25	164,09
3X4.0 re	7,41	34	0,7	1,8	12,94	155	32,4	220,63
3x6 re	5,11	43	0,7	1,8	14,42	173	48,6	280,24
3x10 re	3,08	58	0,7	1,8	16,43	197	81	378,74
3x16 re	1,91	78	0,7	1,8	18,67	224	129,6	502,71
3x25 rm	1,2	108	0,9	1,8	23,95	287	202,5	790,32
3x35 rm	0,868	134	0,9	1,8	26,77	321	283,5	992,14
3x50 rm	0,641	158	1	1,9	30,41	377	405	1297
3x70 rm	0,443	203	1,1	2	34,98	420	567	1728,74
3x95 rm	0,32	248	1,1	2,1	39,05	474	769,5	2174,92
3x120 rm	0,253	290	1,3	2,3	44,14	530	972	2768,26
3x150 rm	0,206	330	1,4	2,4	48,32	580	1215	3308,58
3x185 rm	0,164	382	1,7	2,5	53,75	645	1498,5	4097,1
3x240 rm	0,125	453	1,8	2,7	59,96	720	2004	5117,29
4X2.5 re	12,1	22	0,7	1,8	12,74	153	27	206,04
4X4.0 re	7,41	32	0,7	1,8	13,88	137	43,2	248,66
4x6 re	5,11	40	0,7	1,8	15,88	191	64,8	335,85
4x10 re	3,08	54	0,7	1,8	18,29	219	108	464,77
4x16 re	1,91	73	0,7	1,8	20,58	247	172,8	603,53
4x25 rm	1,2	100	0,9	1,8	26,65	320	270	957,85
4x35 rm	0,868	125	0,9	1,8	29,81	358	378	1201,62
4x50 rm	0,641	147	1	1,8	33,59	403	540	1547,91
4x70 rm	0,443	189	1,1	2,1	39,05	469	756	2098,85
4x95 rm	0,32	231	1,1	2,2	43,58	523	1026	2638,44
4x120 rm	0,253	270	1,3	2,4	48,56	583	1256	3253,18
4x150	0,206	307	1,4	2,6	53,82	646	1620	3983,48
4x185 rm	0,164	355	1,7	2,7	60,04	720	1998	4959,62
4x240 rm	0,125	421	1,8	2,9	66,95	803	2660	6187,12

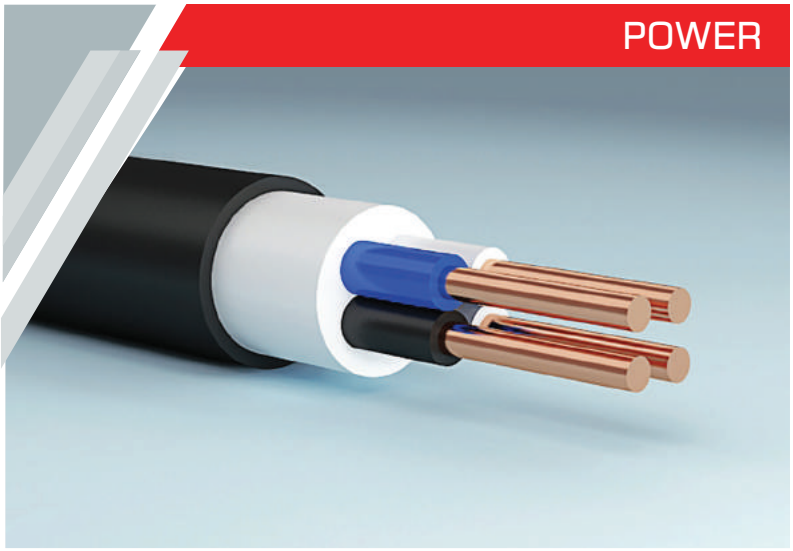
NA2XY

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
5X2.5 re	12,1	22	0,7	1,8	14,05	168	33,75	247
5X4.0 re	7,41	32	0,7	1,8	15,32	184	54	298,27
5x6 re	5,11	40	0,7	1,8	17,27	207	81	389,37
5x10 re	3,08	54	0,7	1,8	20,1	241	135	551,58
5x16 re	1,91	73	0,7	1,8	22,86	274	216	731,49
5x25 rm	1,2	100	0,9	1,8	29,39	353	2025,5	1133,16
5x35 rm	0,868	125	0,9	1,8	32,93	395	472,5	1422,8
5x50 rm	0,641	147	1	2,1	37,29	447	675	1839,66
5x70 rm	0,443	189	1,1	2,2	42,885	515	945	2445,09
5x95 rm	0,32	231	1,1	2,4	48,145	578	1282,5	3104,62
5x120 rm	0,253	270	1,3	2,5	53,475	642	1620	3801,45
5x150 rm	0,206	307	1,4	2,7	59,27	711	2025	4653,11
5x185 rm	0,164	355	1,7	2,9	66,345	796	2498	5825,92
3X4.0 re +1x2.5 re	7,41/12,1	32	0,7/0,7	1,8	13,88	167	39,15	243,28
3x6 re +1x4 re	5,11/7,41	40	0,7/0,7	1,8	15,88	191	59,4	328,94
3x10 re +1x6 re	3,08/5,11	54	0,7/0,7	1,8	17,69	212	97,20	418,8
3x16 re +1x10 re	1,91/3,08	73	0,7/0,7	1,8	20,58	247	156,60	583,65
3x25 rm +1x16 re	1,20/1,91	100	0,9/0,7	1,8	25,84	310	245,70	857,63
3x35 rm +1x16 re	0,868/1,91	125	0,9/0,7	1,8	28,12	337	326,70	984,69
3x50 rm +1x25 rm	0,641/1,20	147	1,0/0,9	1,9	32,72	393	472,50	1380,13
3x70 rm +1x35 rm	0,443/0,868	189	1,1/0,9	2	37,59	451	661,50	1825,32
3x95 rm +1x50 rm	0,320/0,641	231	1,1/1,0	2,2	42,15	506	904,50	2306,08
3x120 rm +1x70 rm	0,253/0,443	270	1,3/1,1	2,3	46,74	561	1161,0	2829,63
3x150 rm +1x70 rm	0,206/0,443	307	1,4/1,1	2,4	50,16	602	1404,0	3162,86
3x185 rm +1x95 rm	0,164/0,320	355	1,7/1,1	2,6	57,81	694	1755,0	4261,24
3x240 rm +1x120 rm	0,125/0,253	421	1,8/1,3	2,8	64,45	773	2280,0	5291,24

re - Single-core
rm - Multi-core


სკკაბელი
SAKCABLE

POWER



N2XY

STANDARD	DIN VDE 0271 IEC 60502

FOREIGN ANALOGUE

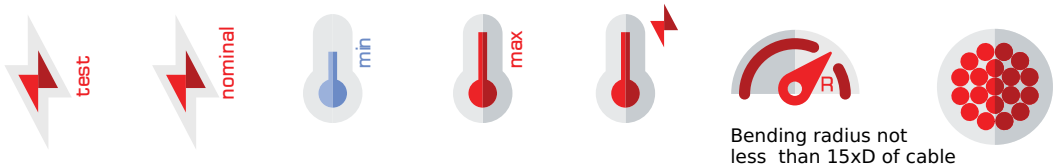
ПвВГ нг - GOST 31996-2012

Power cable with copper core, with polyethylene insulation (XLPE) and polyvinylchloride insulation flame retardant low emission of gas and smoke polyvinylchloride sheath

APPLICATION

For transmission and distribution of electric power at stationary devices with rated voltage 0,660kV and 1 kV frequency 50Hz. For laying in ground, for overhead, into the concrete, for laying into cable channels. Using in electrical stations, in industrial equipment and in commutation systems. Working temperature on the conductor +90 ^{0}C. While laying the cables in groups, they are flame retardant

- Fire Retardant in Multi layer



0,4.0 kV- 50Hz

0,660kV- 1kV- 50Hz

-30^{0}C

+70^{0}C

Bending radius not less than 15xD of cable (single-wire cable) 12xD(multi-core)

- Installation temperature: not less than -15^{0}C.
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not exceed 250^{0}C.
- Conductive lobe for long-term allowable heating temperature +90^{0}C

CONSTRUCTION

The aluminum cores with section 2,5-50mm^2 inclusive are produced with one wire of 1 class flexibility, 70-240mm^2 inclusive with twisted multi-core wires 2 class flexibility, according to standard IEK60228 : 2004. According to customer requested, it's possible to produce cross sections 16:50 with multi-core wires. Number of cores in the cable 1,2,3,4,5

THE CONSTRUCTION LENGTH OF THE CABLES

- 2.5-16 mm^2 – 450 M
- 25-70 mm – 300M
- 95-240 mm – 200 M

in case of supply in bundles the construction length is agreed with the customer. In case of agreement with the customer cables of different construction lengths can be produced

PACKING

On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: "JSC Sakcable" cable brand, date of production. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

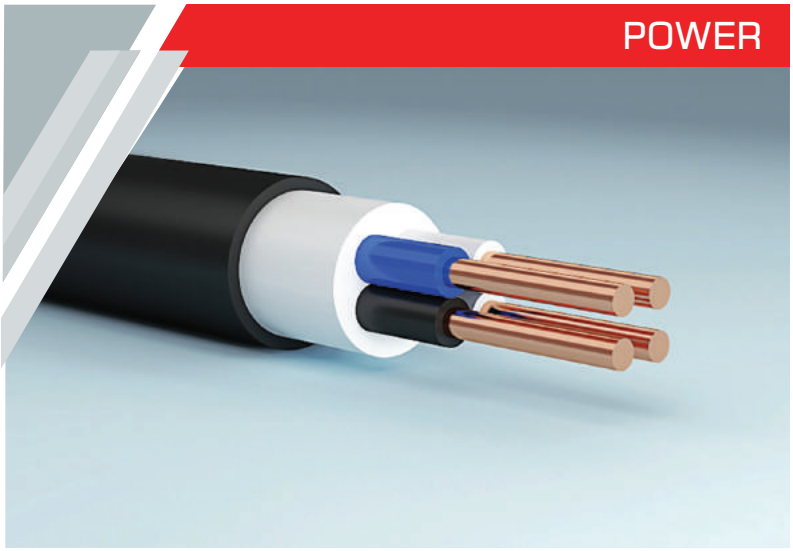
5 years after entering into exploitation, In the proper installation and working conditions

N2XY

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
1 x 1,5 re	12,1	28	0,7	1,8	6,35	95	13,4	57,08
1 x 2,5 re	7,41	36	0,7	1,8	6,73	101	22,3	69,39
1 x 4 re	4,61	47	0,7	1,8	7,19	108	35,6	86,98
1 x 6 re	3,08	59	0,7	1,8	7,7	115	53,35	109,95
1 x 10 rm	1,83	82	0,7	1,8	8,99	135	88,9	162,1
1 x 16 rm	1,15	108	0,7	1,8	10,01	150	142,3	224,08
1 x 25 rm	0,727	146	0,9	1,8	11,7	175	222,25	327,69
1 x35 rm	0,524	180	0,9	1,8	13,01	195	311,2	429,56
1 x 50 rm	0,387	220	1	1,8	14,35	215	444,5	556,78
1 x 70 rm	0,268	279	1,1	1,8	16,3	245	622,3	766
1 x95 rm	0,193	345	1,1	1,8	18,15	272	844,6	1017,46
1 x 120 rm	0,153	403	1,3	1,8	19,9	298	1066,8	1263,78
1 x 150 rm	0,124	464	1,4	1,8	21,87	328	1333,5	1540,25
1 x 185 rm	0,0991	538	1,7	1,8	24,09	361	1644,7	1901,88
1 x 240 rm	0,0754	641	1,8	1,8	26,81	402	2133,6	2448,82
1x300 rm	0,0601	739	1,8	1,8	29,43	442	2667	3033,19
1x400 rm	0,047	860	2	1,9	33	495	3356,1	3870,25
2X1.5 re	12,1	24	0,7	1,8	10,1	121	26,8	149,2
2X2.5 re	7,41	33	0,7	1,8	10,86	130	44,6	183,11
2X4 re	4,61	44	0,7	1,8	12,38	149	71,2	251,84
2X6 re	3,08	56	0,7	1,8	13,8	166	106,7	330,94
2X10 rm	1,83	76	0,7	1,8	16,38	197	177,8	489,27
2X16 rm	1,15	101	0,7	1,8	18,82	226	184,6	688,06
2X25 rm	0,727	134	0,9	1,8	22,5	270	444,5	1018,19
3 x 1,5 re	12,1	22	0,7	1,8	10,51	126	41,4	166,28
3 x 2,5 re	7,41	29	0,7	1,8	11,33	136	68,9	208,58
3 x 4 re	4,61	41	0,7	1,8	12,92	155	110	291,01
3 x 6 re	3,08	49	0,7	1,8	14,42	173	164,85	388,35
3 x 10 rm	1,83	64	0,7	1,8	17,59	211	274,7	603,84
3 x 16 rm	1,15	87	0,7	1,8	19,98	240	439,7	841,21
3 x 25 rm	0,727	110	0,9	1,8	24,02	288	686,75	1259,38
3 x35 rm	0,524	139	0,9	1,8	26,83	322	961,6	1639,79
4 x 1,5 re	12,1	20	0,7	1,8	11,83	142	55,2	211,34
4 x 2,5 re	7,41	27	0,7	1,8	12,74	153	91,87	265,41
4 x 4 re	4,61	37	0,7	1,8	13,85	166	146,67	342,68
4 x 6 re	3,08	45	0,7	1,8	15,88	191	219,8	480,06
4 x 10 rm	1,83	59	0,7	1,8	19,59	235	366,26	758,53
4 x 16 rm	1,15	80	0,7	1,8	22,04	264	586,27	1045,55
4 x 25 rm	0,727	101	0,9	1,8	26,7	320	915,67	1583,04
4 x35 rm	0,524	128	0,9	1,8	29,87	358	1282,14	2064,97
4 x 50 rm	0,387	154	1	1,9	33,7	404	1831,3	2720,25
4 x 70 rm	0,268	191	1,1	2,1	39,4	473	2563,87	3810,9
4 x95 rm	0,193	234	1,1	2,2	44,06	529	3479,75	5011,18
4 x 120 rm	0,153	277	1,3	2,4	48,68	584	4395,21	6224,4
5X1.5 re	12,1	20	0,7	1,8	13,03	156	69,01	255,15
5X2.5 re	7,41	27	0,7	1,8	14,05	169	114,85	321,29
5X4.0 re	4,61	37	0,7	1,8	15,29	183	183,34	415,95
5x6 re	3,08	45	0,7	1,8	17,27	207	274,75	569,78
5x10 rm	1,83	59	0,7	1,8	21,55	259	457,84	915,03
5x16 rm	1,15	80	0,7	1,8	24,51	294	732,85	1280,29
5x25 rm	0,727	101	0,9	1,8	29,47	354	1144,59	1914,83
5x35 rm	0,52+C12:C554	128	0,9	1,8	33,01	396	1602,68	2502,33

re - Single-core
rm - Multi-core

POWER



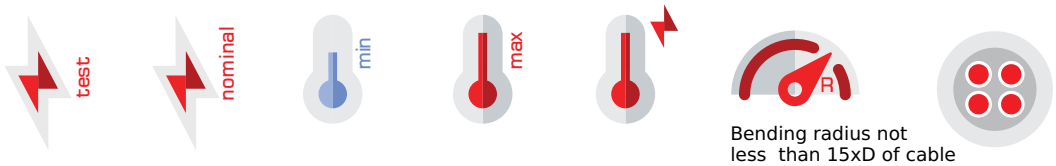
N2XH	
STANDARD	DIN VDE 0276-604
FOREIGN ANALOGUE	
ПвВГ нг-FRHF GOST 31996-2012	

Power cable with copper core, with polyethylene (XLPE) insulation and sheath, with halogen-free compound

APPLICATION

Low-smoke, zero-halogen, flame-retardant power cable. For fixed indoor installation as well as in concrete, but not for direct burial in ground or application in water

- Fire Retardant in Multi layer
- Cable does not spread suffocating and corrosion gas



0,4.0 kV-50Hz

0,660kV- 1kV-50Hz

-30⁰C

+70⁰C

Bending radius not less than 15xD of cable (single-wire cable) 12xD(multi-core)

- Installation temperature: not less than -15⁰C.
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not exceed 250⁰C.
- Conductive lobe for long-term allowable heating temperature +90⁰C

CONSTRUCTION

The aluminum cores with section 2,5-50mm² inclusive are produced with one wire of 1 class flexibility, 70-240mm² inclusive with twisted multi-core wires 2 class flexibility, according to standard IEK60228 : 2004. According to customer requested, it's possible to produce cross sections 16:50 with multi-core wires. Number of cores in the cable 1,2,3,4,5

THE CONSTRUCTION LENGTH OF THE CABLES

- 2.5-16 mm² – 450 M.
- 25-70 mm – 300M
- 95-240 mm – 200 M

in case of supply in bundles the construction length is agreed with the customer. In case of agreement with the customer cables of different construction lengths can be produced

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: "JSC Sakcable" cable brand, date of production. Labeling of resistance cores with colors or with numbers

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

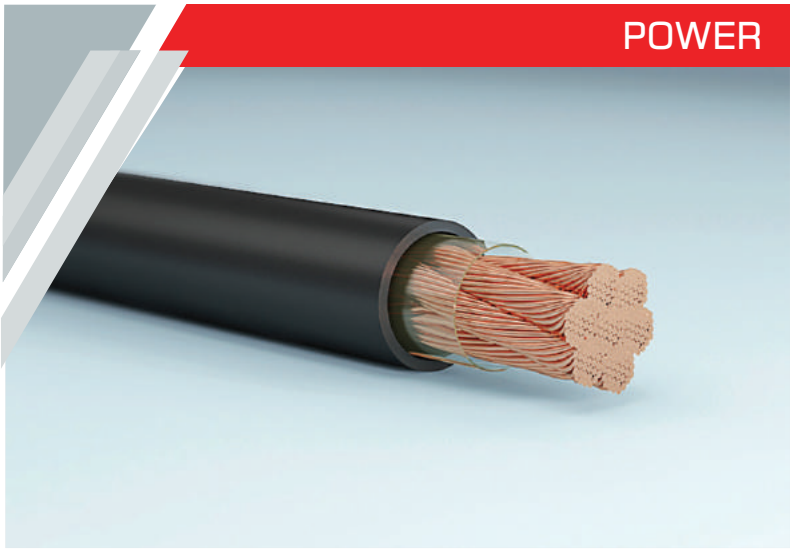
5 years after entering into exploitation, In the proper installation and working conditions

N2XH

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
1 x 1,5 re	12,1	28	0,7	1,2	5,15	78	13,4	40,18
1 x 2,5 re	7,41	36	0,7	1,2	5,53	83	22,3	51,37
1 x 4 re	4,61	47	0,7	1,2	5,99	90	35,6	67,61
1 x 6 re	3,08	59	0,7	1,2	6,5	98	53,35	89,08
1 x 10 rm	1,83	82	0,7	1,2	7,79	117	88,9	137,44
1 x 16 rm	1,15	108	0,7	1,2	8,81	132	142,3	196,42
1 x 25 rm	0,727	146	0,9	1,2	10,5	158	222,25	295,06
1 x35 rm	0,524	180	0,9	1,2	11,81	177	311,2	393,09
1 x 50 rm	0,387	220	1	1,2	13,15	198	444,5	515,15
1 x 70 rm	0,268	279	1,1	1,25	15,2	228	622,3	721,81
1 x95 rm	0,193	345	1,1	1,3	17,15	258	844,6	971,8
1 x 120 rm	0,153	403	1,2	1,34	18,93	284	1066,8	1208,89
1 x 150 rm	0,124	464	1,4	1,37	21,01	315	1333,5	1491,31
1 x 185 rm	0,0991	538	1,6	1,4	23,29	350	1644,7	1850,73
1 x 240 rm	0,0754	641	1,7	1,5	26,21	394	2133,6	2403,65
1x300 rm	0,0601	739	1,8	1,6	29,03	436	2667	2996,76
1x400 rm	0,047	860	2	1,6	30,6	459	3356,1	3619,18
2 x 1,5 re	12,1	24	0,7	1,2	8,9	107	26,8	121,28
2 x 2,5 re	7,41	33	0,7	1,2	9,66	116	44,6	152,95
2 x 4 re	4,61	44	0,7	1,2	11,18	134	71,2	217,21
2 x 6 re	3,08	56	0,7	1,2	12,61	152	106,7	292,4
2 x 10 rm	1,83	76	0,7	1,26	15,29	184	177,8	447,04
2 x 16 rm	1,15	101	0,7	1,3	17,83	214	284,6	640,94
2 x 25 rm	0,727	134	0,9	1,38	21,66	260	444,5	968,4
2 x35 rm	0,524	166	0,9	1,43	24,38	293	622,4	1266,13
3 x 1,5 re	12,1	22	0,7	1,2	9,31	112	41,4	237,37
3 x 2,5 re	7,41	29	0,7	1,2	10,13	122	68,9	277,52
3 x 4 re	4,61	41	0,7	1,2	11,72	141	110	255,66
3 x 6 re	3,08	49	0,7	1,22	13,25	159	164,85	450,21
3 x 10 rm	1,83	64	0,7	1,28	16,55	199	274,7	672,72
3 x 16 rm	1,15	87	0,7	1,33	19,04	229	439,7	910,98
3 x 25 rm	0,727	110	0,9	1,41	23,23	279	686,75	1350,21
3 x35 rm	0,524	139	0,9	1,46	26,16	314	961,6	1704,86
4 x 1,5 re	12,1	20	0,7	1,2	10,63	128	55,2	178,61
4 x 2,5 re	7,41	27	0,7	1,2	11,54	139	91,87	230,29
4 x 4 re	4,61	37	0,7	1,21	12,66	152	146,67	305,13
4 x 6 re	3,08	45	0,7	1,25	14,77	178	219,8	440,24
4 x 10 rm	1,83	59	0,7	1,32	18,63	224	366,26	716,61
4 x 16 rm	1,15	80	0,7	1,37	21,19	255	586,27	1004,92
4 x 25 rm	0,727	101	0,9	1,46	26,05	312	915,67	1547,29
4 x35 rm	0,524	128	0,9	1,53	29,33	352	1282,14	2036,2
5 x 1,5 re	12,1	20	0,7	1,2	11,83	142	69,01	218,91
5 x 2,5 re	7,41	27	0,7	1,2	12,85	154	114,85	282,4
5 x 4 re	4,61	37	0,7	1,2	14,09	169	183,34	374,02
5 x 6 re	3,08	45	0,7	1,27	16,22	195	274,75	528,71
5 x 10 rm	1,83	59	0,7	1,36	20,67	248	457,84	872,99
5 x 16 rm	1,15	80	0,7	1,42	23,74	285	732,85	1241,1
\5 x 25 rm	0,727	101	0,9	1,52	28,9	347	1144,59	1883,77
5 x35 rm	0,524	128	0,9	1,59	32,58	391	1602,68	2481,38
3X2.5 re+1x1.5 re	4,61/7,41	35	0.7/0.7	1,2	11,54	139	82,7	221,07
3X4.0 re+1x2.5 re	3,08/4,61	48	0.7/0.7	1,2	12,65	152	132,97	290,87
3x6 re + 1 x4 re	1,83/3,08	58	0.7/0.7	1,25	14,77	178	201,52	421,22
3x10 rm +1x6.0 re	1,15/1,83	93	0.7/0.7	1,31	18,07	217	329,65	643,87
3x16 r +1x10 rm	0,727/1.15	116	0.7/0.7	1,37	21,19	255	531,27	950,35
3x25 rm +1x16 rm	0,524/1,15	162	0.9/0.7	1,45	25,2	303	833,32	1391,01
3x35 rm +1x16 rm	0,387/0,727	197	0.9/0.9	1,49	27,57	331	1108,2	1700,86
3x50 rm +1x25 rm	0,268/0,524	249	1.0/0.9	1,6	33,03	397	1602,42	2458,73
3x70 rm +1x35 rm	0,193/0,387	313	1.1/0.9	1,69	37,71	453	2443,4	3331,02
3x95 rm +1x50 rm	0,153/0,268	377	1.1/1.0	1,78	42,78	595	3067,64	4445,16
3x120 rm +1x70 rm	0,124/0,268	447	1.2/1.1	1,86	46,86	563	3939,36	5526,09
3x150 rm +1x95 rm	0,0991/0,193	510	1.4/1.1	2	54,03	649	4761,47	7208,66
3x185 rm +1x95 rm	0,0754/0,153	592	1.6/1.1	2,07	57,47	690	5951,9	8254,45
3x240 rm +1x120 rm	4,61/7,41	702	1.7/1.2	2,19	64	768	8051,6	10486,11

re - Single-core
rm - Multi-core

POWER

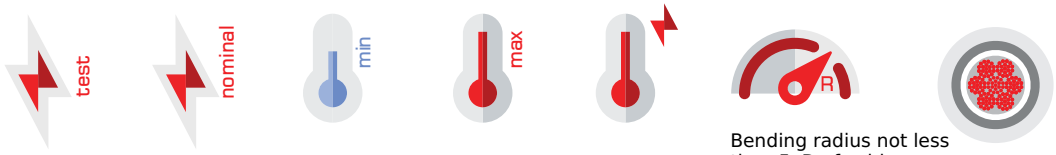


KOG	
STANDARD	T.C 16 k 73 03 -97 GOST 24334-80
FOREIGN ANALOGUE	
Ty16 к73 03-97 | H01N2-D -- DIN VDE 0282-6	

Copper flexible cable with thermoplastic rubber insulation protective sheath

APPLICATION

For connecting automatic and semi-automatic devices of arc welding with source of current



0,4.0 kV- 50Hz | 220kV- 50Hz; 700kv | -45°C | +40°C | Bending radius not less than 5xD of cable

- Permitted heating temperature +75°C
- The conductor is resistant to 98% relative air humidity under +35°C conditions

CONSTRUCTION

Conductor cores with section 16-70mm² inclusive are produced with multiple twisted wire (120-396) of 5 class flexibility, according to standard 22483-2012

THE CONSTRUCTION LENGTH OF THE CABLES

not less than 100m

In case of agreement with the customer cables of different construction lengths can be produced

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, date of production. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores

SERVICE LIFETIME

not less than 4 years

WARRANTY PERIOD

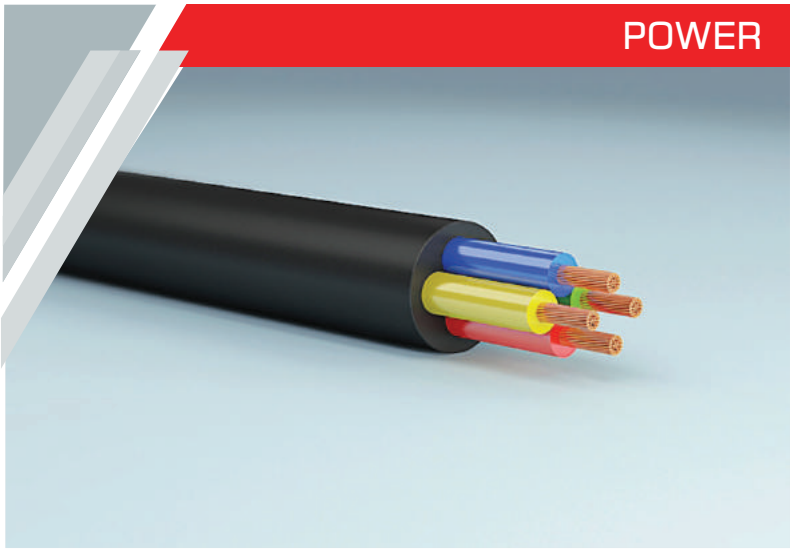
6 months after entering into service (no later than 12 months after production)

KOG

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
1x 16 rm	1,21	100	2,4	10,8	54	154,76	238
1x 25 rm	0,78	140	2,4	12,17	61	238,5	331
1x 35 rm	0,554	170	2,5	14,2	71	339,2	462
1x 50 rm	0,386	215	2,7	15,8	79	481,24	631
1x 70 rm	0,272	270	2,7	17,7	89	678,4	793

re - Single-core
rm - Multi-core

POWER

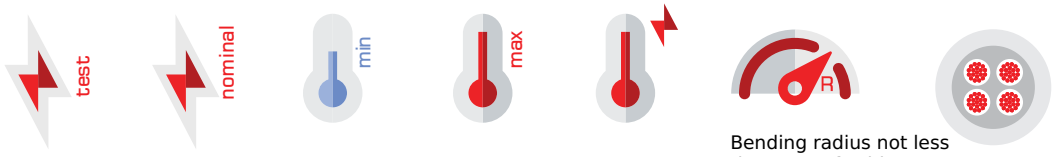


KG	
STANDARD	GOST 24334-80 TB 16k05-93
FOREIGN ANALOGUE	GOST 24334-80 | H07RN-F DIN VDE 0282-4

Copper flexible cable with thermoplastic rubber insulation and sheath

APPLICATION

For attachment of non-fixed and fixed current collector exploitation



2.5 kV-50Hz | 0,660kV 50Hz | -30°C | +45°C | Bending radius not less than 5xD of cable

- Installation temperature: not less than -15°
- Permitted temperature on mean conductor :+70°C
- The conductor is resistant to 98% relative air humidity under +35°C conditions

CONSTRUCTION

Conductor cores with section 1,5-2,5mm² inclusive are produced with multiple twisted wire (7-19) of 4 or 5 class flexibility, 4-70mm² inclusive with twisted multi-core (20-140) wire of 3 and 4 class flexibility, according to standard 22483-2012. Number of cores in the cable 1, 2,3,4,5

THE CONSTRUCTION LENGTH OF THE CABLES

- 2.5-16 mm² – 450M.
- 25-70 mm – 300M
- 95-240 mm – 200M

in case of supply in bundles the construction length is agreed with the customer. In case of agreement with the customer cables of different construction lengths can be produced

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, date of production. Labeling of conductive cores with colors or figures 0,1,2,3,4 with inscription on the top of insulated cores

SERVICE LIFETIME

not less than 15 years

WARRANTY PERIOD

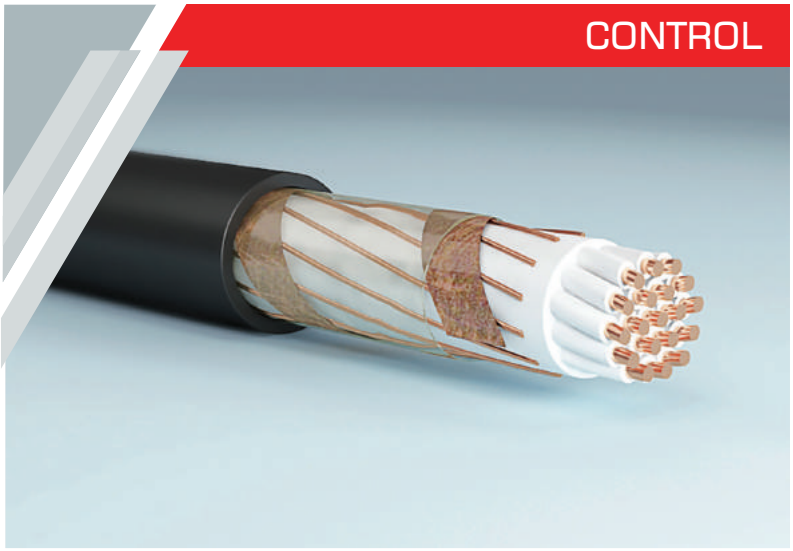
2 years after entering into service

KG

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weght [kg/km]	Weight [kg/km]
1X2.5 rm	8,05	30	0,9	1,4	6,53	33	22,2	59,96
1X4 rm	4,89	41	1	1,5	7,46	37	35,6	82,28
1X6 rm	3,28	50	1	1,6	8,4	42	53,3	110,61
1X10 rm	2	80	1,2	1,8	10,06	50	88,9	169,68
1X16 rm	1,21	100	1,2	1,9	12,1	61	146,56	258,44
1X25 rm	0,776	140	1,4	2	14,18	71	228,9	378,77
1X35 rm	0,547	170	1,4	2,2	16,02	80	320,5	503,67
1X50 rm	0,393	215	1,6	2,4	18	90	457,8	664,14
1X70 rm	0,281	270	1,6	2,6	20,7	104	641	899,95
2X1,5 rm	13,2	19	0,8	1,5	9,15	46	26,6	106,88
2X2.5 rm	8,05	27	0,9	1,7	10,87	54	44,4	156,77
2X4 rm	4,89	38	1	1,8	12,52	63	71,2	215,39
2X6 rm	3,28	50	1	2	14,4	72	106,6	294,59
2X10 rm	2	70	1,2	3,1	19,12	96	177,8	516,16
2X16 rm	1,21	90	1,2	3,3	23,2	116	301,9	788,27
2X25 rm	0,776	115	1,4	3,6	27,56	138	471,23	1152,4
2X35 rm	0,547	140	1,4	3,6	30,44	152	660,2	1467,12
2X50 rm	0,393	175	1,6	4,5	35,4	177	943,1	1997,96
2X70 rm	0,281	215	1,6	4,8	40,6	203	1320,5	2676,6
3X1.5 rm	13,2	19	0,8	1,6	9,81	49	40	106,88
3X2.5 rm	8,05	25	0,9	1,8	11,63	58	66,3	156,77
3X4 rm	4,89	35	1	1,9	13,39	67	106,6	215,39
3X6 rm	3,28	42	1	2,1	15,38	77	160	294,59
3X10 rm	2	55	1,2	3,3	20,49	102	266,7	516,16
3X16 rm	1,21	75	1,2	3,5	24,85	124	452,85	788,27
3X25 rm	0,776	95	1,4	3,8	29,49	147	706,84	1152,4
3X35 rm	0,547	120	1,4	4,1	33,18	166	990,3	1467,12
3X50 rm	0,393	145	1,6	4,5	37,38	187	1414,65	1997,96
3X70 rm	0,281	180	1,6	4,8	42,93	215	1980,75	2676,6
4X1.5 rm	13,2	17	0,8	1,7	10,81	54	53,2	158,73
4X2.5 rm	8,05	23	0,9	1,9	12,8	64	88,8	234,93
4X4 rm	4,89	32	1	2	14,75	74	142,4	326,62
4X6 rm	3,28	39	1	2,3	17,13	86	212,2	457,81
4X10 rm	2	51	1,2	3,4	22,37	112	355,6	784,31
4X16 rm	1,21	69	1,2	3,6	27,2	136	663,8	1201,06
4X25 rm	0,776	87	1,4	4,1	32,73	164	942,46	1801,66
4X35 rm	0,547	110	1,4	4,4	36,8	184	1320,4	2367,79
4X50 rm	0,393	133	1,6	4,8	41,41	207	1886,2	3109,09
4X70 rm	0,281	165	1,6	5,2	47,76	239	2641	4209,43
5X1.5 rm	13,2	17	0,8	1,8	11,9	60	66,5	196,48
5X2.5 rm	8,05	23	0,9	2	14,08	70	111	290,87
5X4 rm	4,89	32	1	2,2	16,44	82	178	412,36
5X6 rm	3,28	39	1	2,5	19,04	95	265,3	575,46
5X10 rm	2	51	1,2	3,6	24,64	123	444,5	973,23
5X16 rm	1,21	69	1,2	3,9	30,21	151	754,7	1508,16
5X25 rm	0,776	87	1,4	4,4	36,29	181	1178,1	2258,03
3X2.5+1X1.5 rm / rm	8.05/13.2	25	0.9/0.8	1,9	12,8	64	79,9	223,04
3X4+1X2.5 rm / rm	4.89/8.05	35	1.0/0.9	2	14,75	74	128,8	310,93
3X6+1X4 rm / rm	3.28/4.89	42	1.0/1.0	2,1	16,73	84	195,6	422,45
3X10+1X6 rm / rm	2/3.28	55	1.2/1.0	3,3	22,17	111	320	730,73
3X16+1X10 rm / rm	1.21/2	75	1.2/1.2	3,5	26,17	131	541,15	1070,53
3X25+1X16 rm / rm	0.776/1.21	95	1.4/1.2	3,8	32,13	161	853,4	1657,48
3X35+1X16 rm / rm	0.547/1.21	120	1.4/1.2	4,4	35,64	178	1138,8	2072,49
3X50+1X25 rm / rm	0.393/0.776	145	1.6/1.4	4,8	40,09	200	1643,5	2756,37
3x70+1x35 rm / rm	0.281/0.547	180	1.6/1.4	5	45,81	229	2301,2	3678,51

re - Single-core
rm - Multi-core

CONTROL



NYCY	
STANDARD	DIN VDE 0276-627

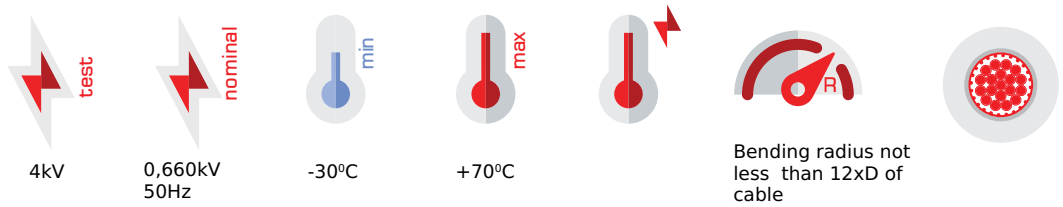
FOREIGN ANALOGUE

ТУ 16-705-500-2006
Stadndard VDE 0276-626

Copper core control-power screened cable with filler, polyvinylchloride insulation and sheath

APPLICATION

For fixed installation indoors, outdoors, in ground and in water



4kV | 0,660kV 50Hz | -30°C | +70°C | Bending radius not less than 12xD of cable

- Installation temperature: -5°C.
- The conductor is resistant to 98% relative air humidity under +35°C conditions.
- Conductive lobe for long-term allowable heating temperature +70°C.

CONSTRUCTION

The structure of conductor core is single-wire and conforms to 1or 2 class flexibility according to the standard IEC 60228:2004. On fillers of insulated sheaths a round copper wire (10-12) net and copper foil is wound, which performs protective and neutral cores function.
The sections of conductor cores are: 1,5-10,0mm²
Number of conductor cores: 1,5-2,5mm² 4-5-7-10-12-14-19-24.
4-6mm² 4-5-7
10mm² 4-5

THE CONSTRUCTION LENGTH OF THE CABLES

agreed with the customer

PACKING On wooden drum or bundles (coils).

LABELING

Label attached to wooden drum or bundle, or in case of request of the customer with inscription on top: “JSC Sakcable” cable brand, year of manufacture. Labeling of conductor cores with colors or numbers with inscription on the surface of insulated cores.

SERVICE LIFETIME

not less than 15 years, but in buildings, channels, tunnels 25 years

WARRANTY PERIOD

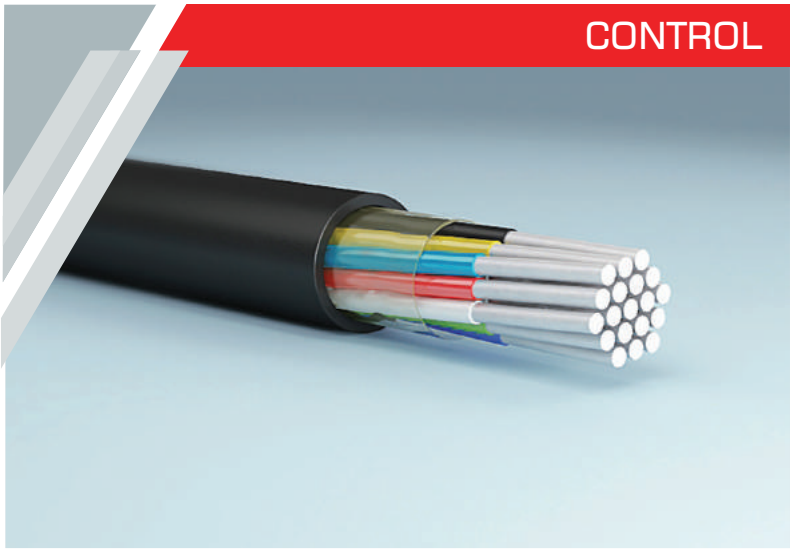
3 years after entering into service, in case of proper installation and exploitation

NYCY

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weight [kg/km]	Weight [kg/km]
2X1.5 re/1.5	12,1	28	0,8	1,8	12,7	152	54	167,02
3X1.5 re/1.5	12,1	28	0,8	1,8	13,14	158	73	192,23
4X1.5 re/1.5	12,1	28	0,8	1,8	14,11	169	87	228,43
5X1.5 re/1.5	12,1	28	0,8	1,8	15,17	182	102	267,06
7X1.5 re/1.5	12,1	28	0,8	1,8	16,05	193	139	316,51
8X1.5 re/1.5	12,1	28	0,8	1,8	16,94	203	147	347,62
10X1.5 re/2.5	12,1	28	0,8	1,8	19	228	183	421,87
12X1.5 re/2.5	12,1	28	0,8	1,8	19,44	233	214	464,94
14X1.5 re/2.5	12,1	28	0,8	1,8	20,41	245	244	540,35
16X1.5 re/4.0	12,1	28	0,8	1,8	21,27	255	288	600,94
19X1.5 re/4.0	12,1	28	0,8	1,8	22,35	268	332	683,4
21X1.5 re/6.0	12,1	28	0,8	1,8	23,64	284	369	757,22
24X1.5 re/6.0	12,1	23	0,8	1,8	25,9	311	430	861,82
30X1.5 re/6.0	12,1	23	0,8	1,8	27,11	325	519	1014,98
2X2.5 re/2.5	7,41	36	0,8	1,8	13,46	162	83	192,83
3X2.5 re/2.5	7,41	36	0,8	1,8	13,96	168	112	228,12
4X2.5 re/2.5	7,41	36	0,8	1,8	15,03	180	138	277,35
5X2.5 re/2.5	7,41	36	0,8	1,8	16,19	194	162	329,47
7X2.5 re/2.5	7,41	36	0,8	1,8	17,19	206	208	401,44
8X2.5 re/2.5	7,41	36	0,8	1,8	18,19	218	238	445,09
10X2.5 re/4.0	7,41	36	0,8	1,8	20,52	246	298	553,56
12X2.5 re/4.0	7,41	36	0,8	1,8	21,02	252	348	618,23
14X2.5 re/4.0	7,41	36	0,8	1,8	22,09	265	419	702,75
16X2.5 re/6.0	7,41	36	0,8	1,8	23,45	281	470	779,49
19X2.5 re/6.0	7,41	36	0,8	1,8	24,45	293	523	881,23
21X2.5 re/10.0	7,41	36	0,8	1,8	25,99	312	605	994,31
24X2.5 re/10.0	7,41	36	0,8	1,8	28,32	340	696	1123,65
30X2.5 re/10.0	7,41	36	0,8	1,8	29,89	359	840	1236,18

re - Single-core
rm - Multi-core

CONTROL



AKVVG

Aluminum core control cable with polyvinylchloride insulation and sheath

FKVVG-HF

same as AKVVG but with the fire retardant polyvinylchloride insulation

FKVVG-LS

the same as AKVVG but with flame retardant low emission of gas and smoke polyvinylchloride insulation and sheath

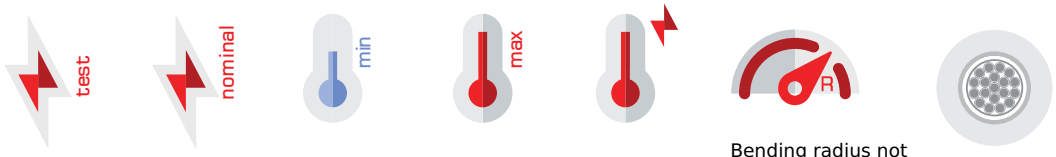
STANDARD	GOST 1508-78

FOREIGN ANALOGUE

АКВВГ GOST 1508-78

APPLICATION

For fixed connection on electric appliances, equipment, gathering mounts of electric distribution appliances for rated alternating voltage 1000V. Used for laying in buildings, channels, tunnels if there is no danger of mechanical influence on the cables. During laying in single layer the cable is flame retardant



2,5kV 50Hz | 0, 660 kV-100Hz | -50°C | +50°C | Bending radius not less than 6xD of cable

- Installation temperature: -15°C.
- The conductor is resistant to 98% relative air humidity under +35°C conditions.
- Conductive lobe for long-term allowable heating temperature +70°C.

CONSTRUCTION

The structure of conductor core is single-wire and conforms to 1 class flexibility according to the standard 22483-2012. The section of conductor core is 2,5; 4; 6; 10mm².
Number of cores in the cable: 2.5mm²-4, 5, 7, 10, 14, 19; 27; 37
4: 10mm²-4, 7, 10
During laying in single layer the cable is flame retardant

THE CONSTRUCTION LENGTH OF THE CABLES

not less than 150m

PACKING On wooden drum or bundles (coils).

LABELING

In each bundle by existence of counting pair, which differs in color from other cores. Labeling can be done by means of inscription of separate numbers on insulated cores or distinctive colors of insulation can be used. While numeric labeling the color of figures must be different from the color of the insulation of the core. On the surface of the cover an inscription is made: “JSC Sakcable”, cable brand, section and manufacture year

SERVICE LIFETIME

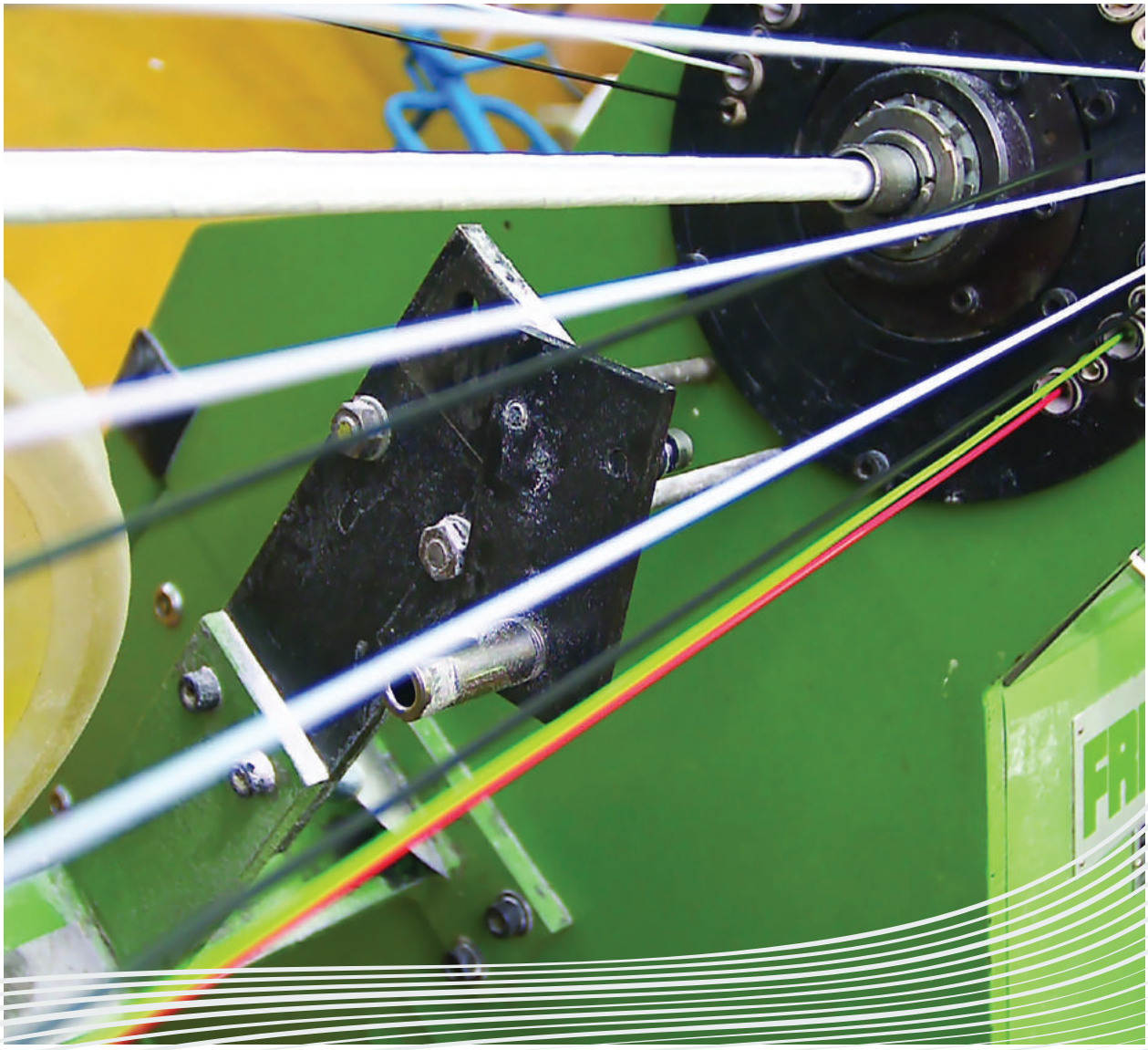
not less than 15 years, but in buildings, channels, tunnels 25 years

WARRANTY PERIOD

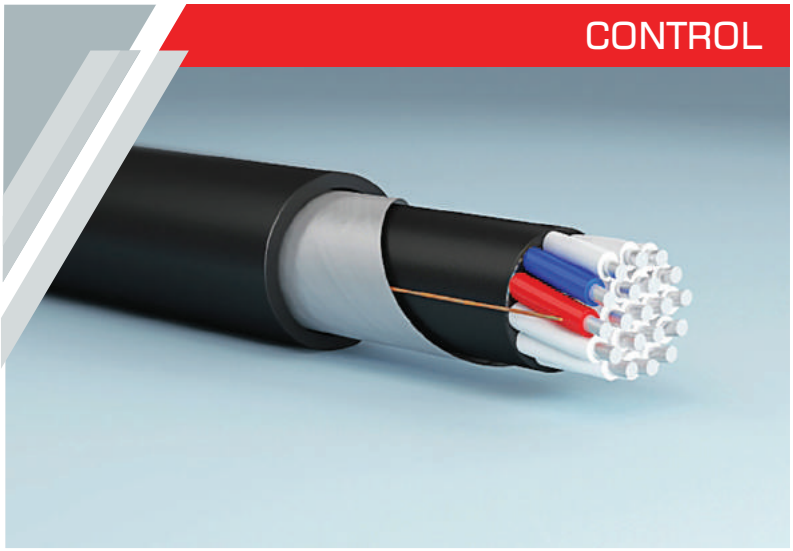
3 years after entering into service, in case of proper installation and exploitation.

AKVVG GOST 1508-78

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weght [kg/km]
4X2.5	12,1	22	0,6	1,5	9,99	60	28	137,3
5X2.5	12,1	22	0,6	1,5	10,83	65	35	160,3
7X2.5	12,1	22	0,6	1,5	11,7	70	49	199,2
10X2.5	12,1	22	0,6	1,5	14,6	88	70	271,6
14X2.5	12,1	22	0,6	1,5	15,79	95	98,1	344,5
19X2.5	12,1	22	0,6	1,5	17,5	105	133,1	437,6
24X2.5	12,1	22	0,6	1,7	20,8	125	168,1	565,5
27X2.5	12,1	22	0,6	1,7	21,24	127	189,1	616,6
37X2.5	12,1	22	0,6	1,9	24,1	145	259,1	825,5
4X4	7,41	30	0,7	1,5	11,19	67	44,5	183,5
7X4	7,41	30	0,7	1,5	13,2	79	77,9	274,7
10X4	7,41	30	0,7	1,5	16,6	100	111,2	378,2



CONTROL



AKVVG -E

Aluminum core control cable with polyvinyl-chloride insulation and sheath. With copper and aluminum screen

FKVVGE-FR

same as AKVVGE but with the fire retardant poly-vinylchloride insulation

FKVVGE-LS

the same as AKVVGE but with flame retardant low emission of gas and smoke polyvinylchloride insulation and sheath

STANDARD	GOST 1508-78

FOREIGN ANALOGUE

АКВВГ GOST 1508-78

APPLICATION

For fixed connection on electric appliances, equipment, gathering mounts of electric distribution appliances for rated alternating voltage 660V, up to 100 Hz , or direct current 1000V. Used for laying in buildings, channels, tunnels if there is no danger of mechanical influence on the cables. During laying in single layer the cable is flame retardant

2,5kV 50Hz | 0, 660 kV-100Hz | -50°C | +50°C | Bending radius not less than 6xD of cable

- Installation temperature: -15°C.
- The conductor is resistant to 98% relative air humidity under +35°C conditions.
- Conductive lobe for long-term allowable heating temperature +70°C.

CONSTRUCTION

The structure of conductor core is single-wire and conforms to 1 class flexibility according to the standard 22483-2012. The section of conductor core is 2,5; 4; 6; 10mm².
Number of cores in the cable: 2.5mm²-4, 5, 7, 10, 14, 19; 27; 37
4: 10mm²-4, 7, 10
During laying in single layer the cable is flame retardant

THE CONSTRUCTION LENGTH OF THE CABLES

not less than 150m

PACKING On wooden drum or bundles

LABELING

In each bundle by existence of counting pair, which differs in color from other cores. Labeling can be done by means of inscription of separate numbers on insulated cores or distinctive colors of insulation can be used. While numeric labeling the color of figures must be different from the color of the insulation of the core. On the surface of the cover an inscription is made: “JSC Sakcable”, cable brand, section and manufacture year

SERVICE LIFETIME

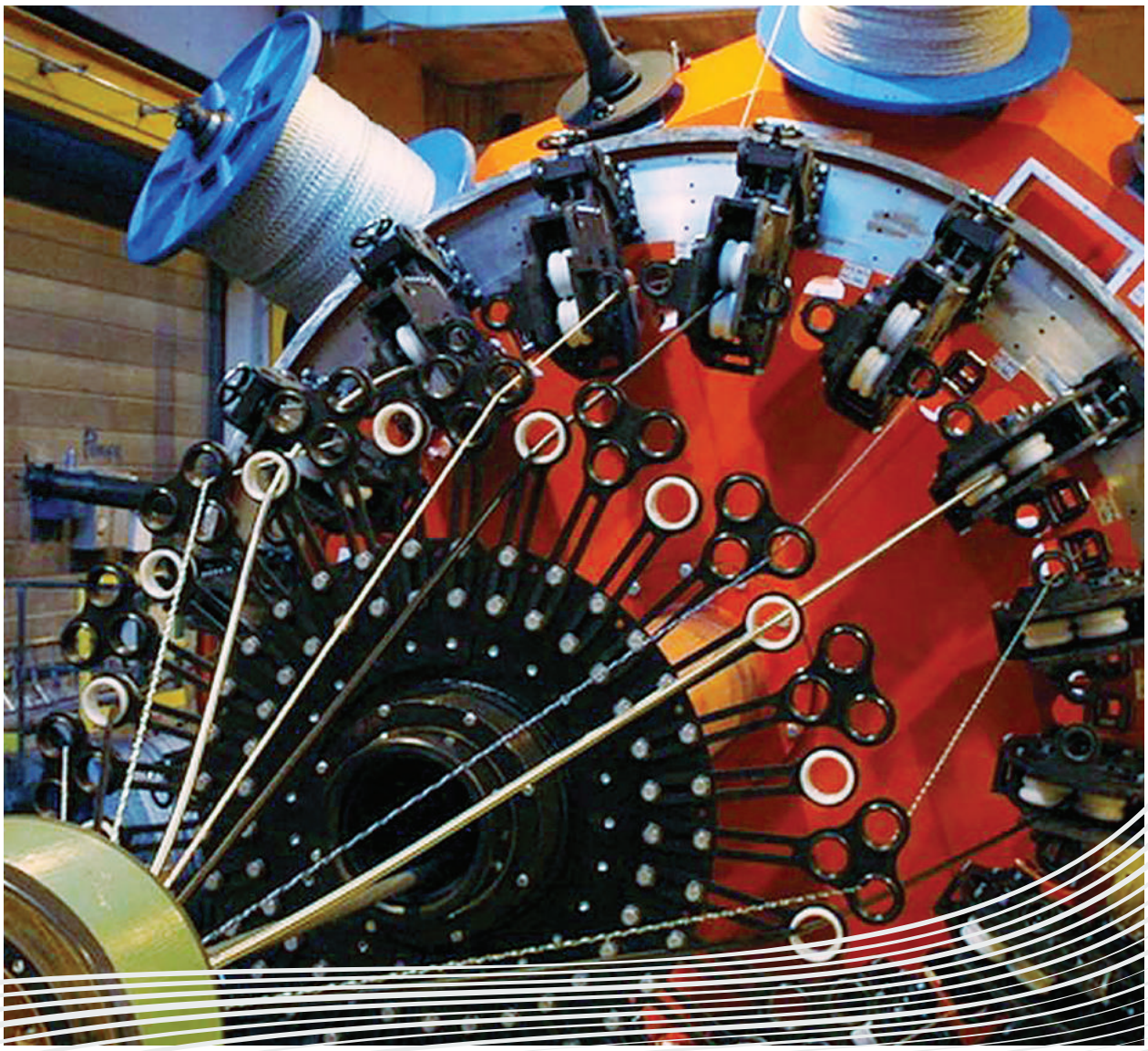
not less than 15 years, but in buildings, channels, tunnels 25 years

WARRANTY PERIOD

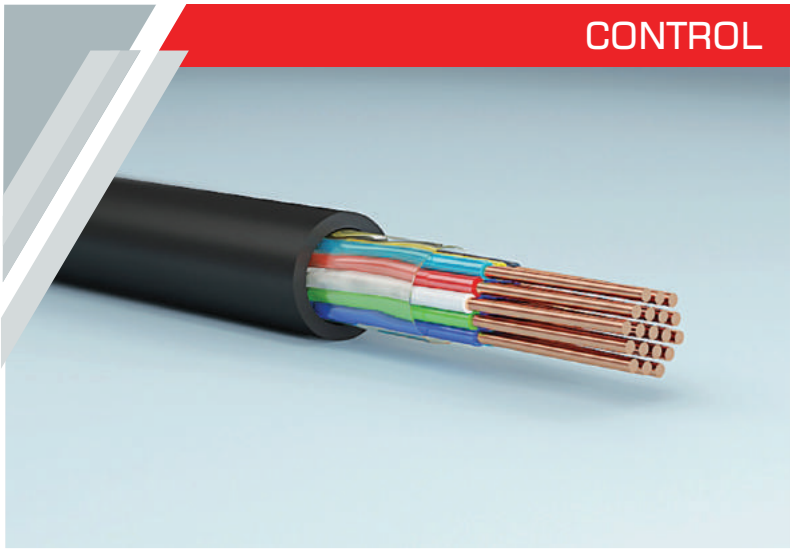
3 years after entering into service, in case of proper installation and exploitation.

AKVVG -E GOST 1508-78

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weght [kg/km]
4X2.5	12,1	22	0,6	1,5	10,99	66	28	221,3
5X2.5	12,1	22	0,6	1,5	11,83	71	35	252,7
7X2.5	12,1	22	0,6	1,5	12,7	76	49	298,8
10X2.5	12,1	22	0,6	1,5	15,6	94	70	367,6
14X2.5	12,1	22	0,6	1,5	17,39	105	98,1	464,5
19X2.5	12,1	22	0,6	1,5	19,1	115	133,1	540,8
24X2.5	12,1	22	0,6	1,7	22,4	135	168,1	648,3
27X2.5	12,1	22	0,6	1,7	22,8	137	189,1	724,6
37X2.5	12,1	22	0,6	1,9	25,7	154	259,1	937,1
4X4	7,41	30	0,7	1,5	12,19	73	44,5	289,1
7X4	7,41	30	0,7	1,5	14,2	85	77,9	313,1
10X4	7,41	30	0,7	1,5	18,2	110	111,2	402,2



CONTROL



KVVG

copper flexible control cable with polyvinylchloride insulation and sheath

KVVG-FR

the same as KVVG , but with flame retardant polyvinylchloride sheath

KVVG-FR-LS

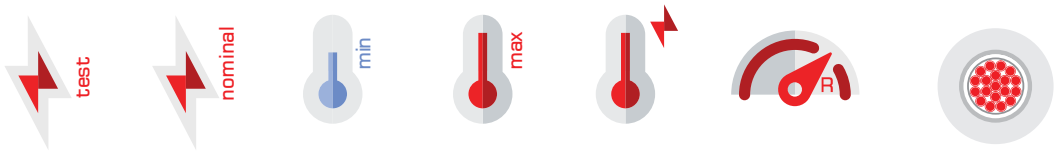
The same as KVVG but with flame retardant low emission of gas and smoke polyvinylchloride insulation and sheath

STANDARD	GOST 1508-78
FOREIGN ANALOGUE	КВВГ GOST 1508-78 | NYM- Similar DIN VDE 0250-204

! -**KGVVG** Fire Retardant in single layer
-**KVVG-FR/KVVG-FR-LS** Fire Retardant in Multi layer

APPLICATION

For fixed connection on electric appliances, equipment, gathering mounts of electric distribution appliances for rated alternating voltage up to 660V frequency 100Hz, or direct current1000V. Used for laying in buildings, channels, tunnels if there is no danger of mechanical influence



2,5kV 50Hz | 0, 660 kV-100Hz | -50°C | +50°C | Bending radius not less than 6xD of cable

- Installation temperature: -15°C.
- The conductor is resistant to 98% relative air humidity under +35°C conditions.
- Conductive lobe for long-term allowable heating temperature +70°C.

CONSTRUCTION

The structure of conductor core is multi-wire and conforms to 3 and 4 class flexibility according to the standard 22483-2012 The section of conductor core is 0.75, 1.0, 1.5, 2.5, 4, 6mm^2.
Number of cores in the cable: 0,75-2,5mm^2.-4, 5, 7, 10, 14, 19, 27, 37 4 and 6mm^2-4, 7, 10

THE CONSTRUCTION LENGTH OF THE CABLES

not less than 150m

PACKING On wooden drum or bundles

LABELING

In each bundle by existence of counting pair, which differs in color from other cores. Labeling can be done by means of inscription of separate numbers on insulated cores or distinctive colors of insulation can be used. While numeric labeling the color of figures must be different from the color of the insulation of the core. On the surface of the cover an inscription is made: “JSC Sakcable”, cable brand, section and manufacture year

SERVICE LIFETIME

not less than 15 years, but in buildings, channels, tunnels 25 years

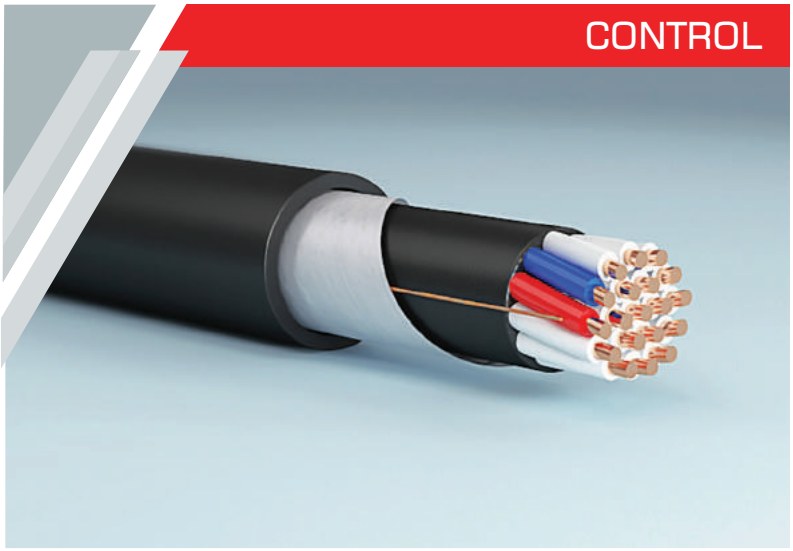
WARRANTY PERIOD

3 years after entering into service, in case of proper installation and exploitation.

KVVG

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weight [kg/km]	Weight [kg/km]
4X1.5	12,1	28	0,6	1,5	9,15	55	55,2	122,17
5X1.5	12,1	28	0,6	1,5	9,89	59	69	145,33
7X1.5	12,1	28	0,6	1,5	10,65	64	96,6	186,99
10X1.5	12,1	28	0,6	1,5	13,2	79	138	258,61
14X1.5	12,1	28	0,6	1,5	14,25	85	193,2	338,78
19X1.5	12,1	28	0,6	1,5	15,75	95	262,2	440,27
24X1.5	12,1	28	0,6	1,7	18,7	112	331,2	564,48
27X1.5	12,1	28	0,6	1,7	19,08	114	372,7	622,32
37X1.5	12,1	28	0,6	1,7	21,25	128	510,7	821,73
4X2.5	7,41	36	0,6	1,5	10,06	60	91,9	168,37
5X2.5	7,41	36	0,6	1,5	10,91	65	114,8	202,25
7X2.5	7,41	36	0,6	1,5	11,79	71	160,8	264,63
10X2.5	7,41	36	0,6	1,5	14,72	88	229,7	368,78
14X2.5	7,41	36	0,6	1,5	15,92	96	321,6	489,89
19X2.5	7,41	36	0,6	1,5	17,65	106	436,4	642,77
24X2.5	7,41	36	0,6	1,7	20,98	126	551,3	821,56
27X2.5	7,41	36	0,6	1,7	21,42	129	620,2	909,75
37X2.5	7,41	36	0,6	1,9	24,31	146	849,9	1233,45

CONTROL



KVVGE

copper flexible control cable with polyvinylchloride insulation and sheath. With aluminum and copper screen

KVVGE-FR

the same as KVVGE , but with flame retardant polyvinylchloride sheath

KVVGE-FR-LS

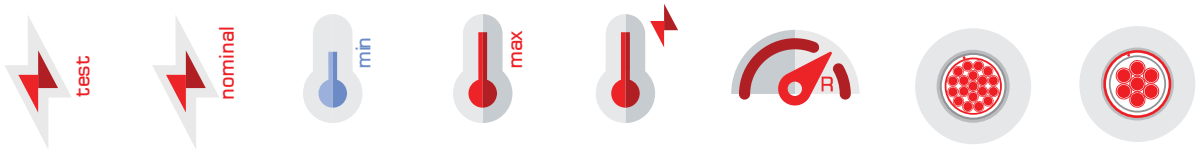
The same as KVVGE but with flame retardant low emission of gas and smoke polyvinylchloride insulation and sheath

STANDARD	КВВГэстандарт 1508-78
FOREIGN ANALOGUE	DIN VDE 0250 part 204/209

- **KVVGE -** Fire Retardant in single layer
-**KVVGE-FR/KVVGE-FR-LS** Fire Retardant in Multi layer

APPLICATION

For fixed connection on electric appliances, equipment, gathering mounts of electric distribution appliances for rated alternating voltage up to 660V frequency 100Hz, or direct current1000V. Used for laying in buildings, channels, tunnels if there is no danger of mechanical influence



2,5kV 50Hz	0, 660 kV-100Hz	-50°C	+50°C	Bending radius not less than 6xD of cable

- Installation temperature: -15°C.
- The conductor is resistant to 98% relative air humidity under +35°C conditions..
- Conductive lobe for long-term allowable heating temperature +70°C.

CONSTRUCTION

The structure of conductor core is multi-wire and conforms to 3 and 4 class flexibility according to the standard 22483-77. The section of conductor core is 0.75, 1.0, 1.5, 2.5, 4, 6mm².
Number of cores in the cable: 0,75-2,5mm².-4, 5, 7, 10, 14, 19, 27, 37
4 and 6mm²-4, 7, 10

THE CONSTRUCTION LENGTH OF THE CABLES

not less than 150m

PACKING On wooden drum or bundles

LABELING

In each bundle by existence of counting pair, which differs in color from other cores. Labeling can be done by means of inscription of separate numbers on insulated cores or distinctive colors of insulation can be used. While numeric labeling the color of figures must be different from the color of the insulation of the core. On the surface of the cover an inscription is made: “JSC Sakcable”, cable brand, section and manufacture year

SERVICE LIFETIME

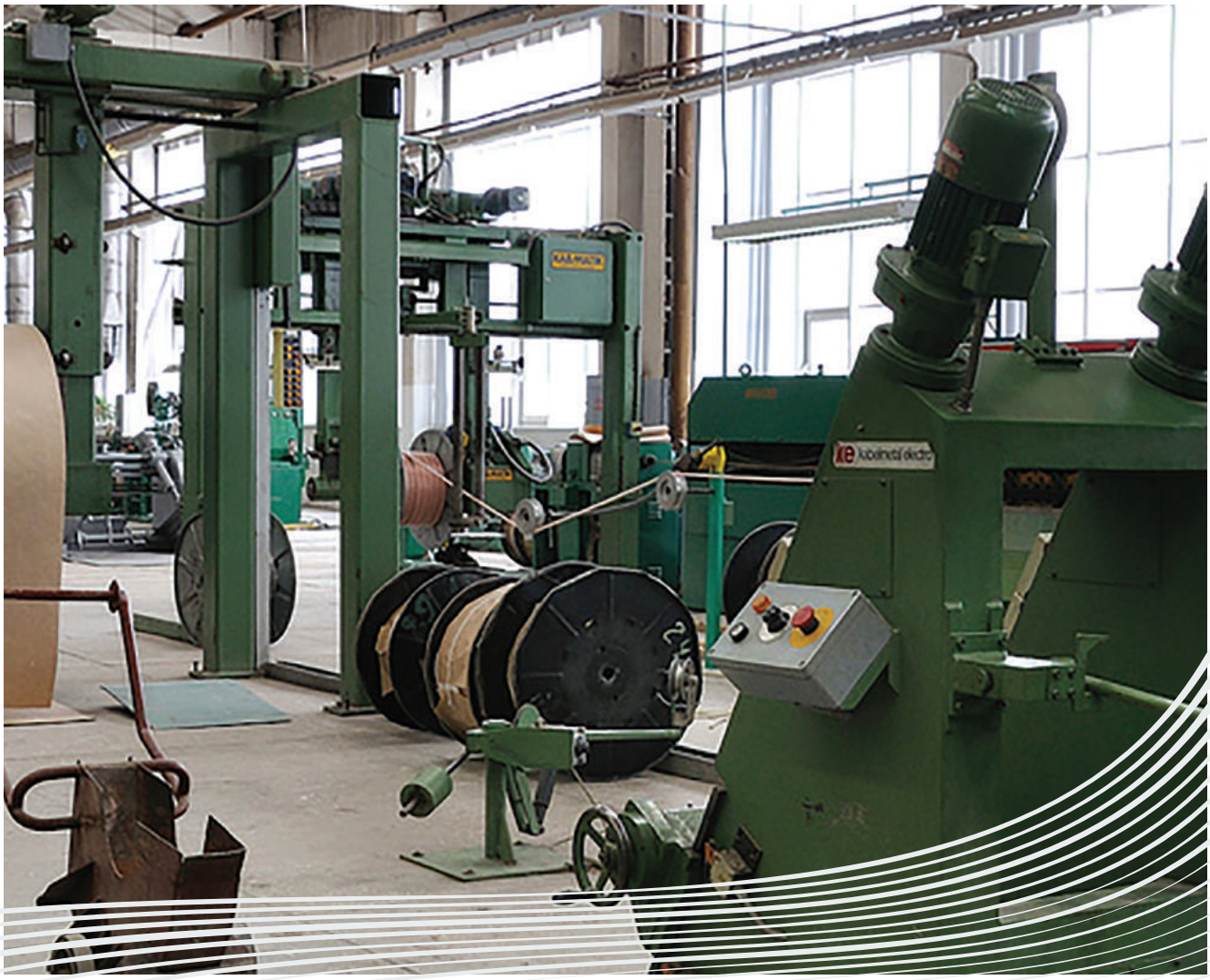
not less than 15 years, but in buildings, channels, tunnels 25 years

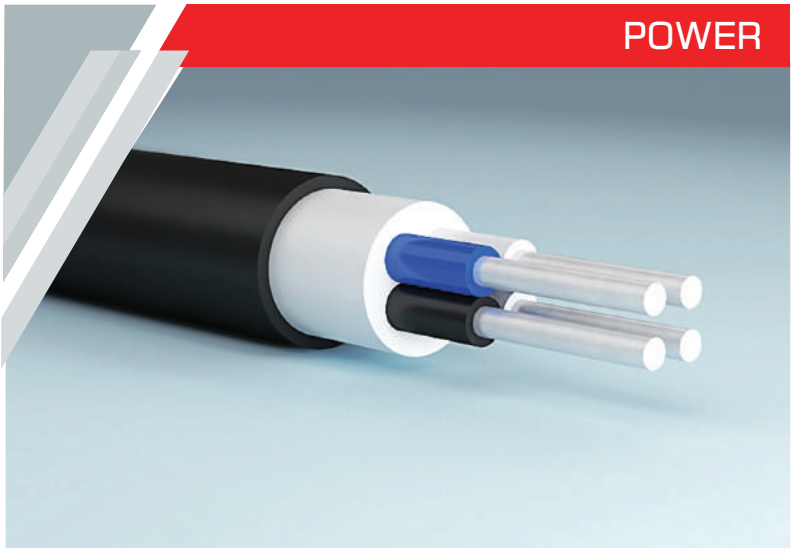
WARRANTY PERIOD

3 years after entering into service, in case of proper installation and exploitation.

KVVGE КВВГэстандарт 1508-78

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Copper Weight [kg/km]	Weight [kg/km]
4X1.5	12,1	28	0,6	1,5	10,15	61	55,2	203
5X1.5	12,1	28	0,6	1,5	10,89	65	69	232,53
7X1.5	12,1	28	0,6	1,5	11,65	70	96,6	280,79
10X1.5	12,1	28	0,6	1,5	14,2	85	138	385,25
14X1.5	12,1	28	0,6	1,5	15,85	95	193,2	487,02
19X1.5	12,1	28	0,6	1,5	17,35	104	262,2	633,35
24X1.5	12,1	28	0,6	1,7	20,3	122	331,2	787,01
27X1.5	12,1	28	0,6	1,7	20,68	124	372,7	865,1
37X1.5	12,1	28	0,6	1,7	22,85	137	510,7	1114,24
4X2.5	7,41	36	0,6	1,5	11,06	66	91,9	259,57
5X2.5	7,41	36	0,6	1,5	11,91	71	114,8	301,05
7X2.5	7,41	36	0,6	1,5	12,79	77	160,8	371,29
10X2.5	7,41	36	0,6	1,5	15,72	94	229,7	514,05
14X2.5	7,41	36	0,6	1,5	17,52	105	321,6	676,93
19X2.5	7,41	36	0,6	1,5	19,25	116	436,4	864,72
24X2.5	7,41	36	0,6	1,7	22,58	135	551,3	1101,4
27X2.5	7,41	36	0,6	1,7	23,02	138	620,2	1229,88
37X2.5	7,41	36	0,6	1,9	25,91	155	849,9	1549,68





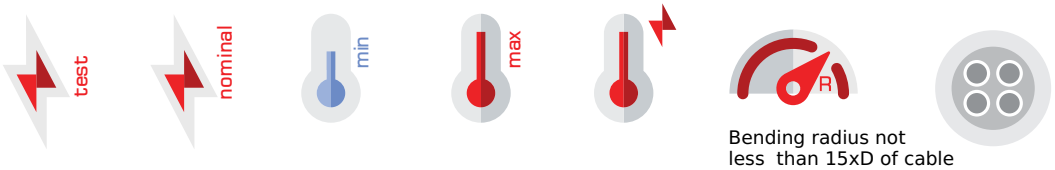
NA2XH	
STANDARD	DIN VDE 0276-604
FOREIGN ANALOGUE	
ПвВГ нг-FRHF гост 31996-2012	

Power cable with aluminum core, polyethylene (XLPE) insulation and casing with non-halogen compound

APPLICATION

The non-halogen elevated fire hazard cable is designed to transmit and distribute electricity to stationary devices at nominal voltages of 0.660 kW and 1 Hz at 50 Hz. In the air, with anti-ultraviolet radiation protection and where there is no danger of mechanical damage of the cable, as well as for low corrosion activity in the soil (in the trenches), but in a protective tube.

- do not allow burns during laying jointly.
- The cable does not emit carbon monoxide and corrosive gases.



4 kV- 50Hz | 0,660kV- 1kV- 50Hz | -30°C | +70°C | Bending radius not less than 15xD of cable (single-wire cable) 12xD(multi-core)

- Installation temperature: not less than -15°C.
- The max. allowable core heating temperature in short circuit with duration of not more than 4 seconds must not exceed 250°C.
- Conductive lobe for long-term allowable heating temperature +90°C

CONSTRUCTION

Aluminum wires with a cross section of 2.5-50 mm2 are made with single wire first class flexibility up to 70-240 mm2 with twisted multi-wire wires with 2nd class flexibility, standard IEC60228: 2004. At the request of the customer, it is allowed to make multi-wire cross section 16: 50. The number of cores in the cable: 1,2,3,4,5

THE CONSTRUCTION LENGTH OF THE CABLES

2,5-16mm2 450 m 25-70mm2 300 m 95-240mm2 200 m In case of delivery coils (“bundle”), the construction length is agreed with the customer. It is allowed to make cables of different construction lengths.

PACKING

Wood barrel or coils (“bundle”),

Marking

Attached to Wood barrel or coils (“bundle”) with a label and the inscription on the surface of the cable: “JSC-Sakkabeli” cable name, meter, year of issue. Marking of hot wire with different colors or inscriptions on the surface of the insulated cores with 0,1,2,3,4 numbers.

SERVICE LIFETIME

not less than 30 years

WARRANTY PERIOD

5 years after entering into exploitation, In the proper installation and working conditions

NA2XY DIN VDE 0276 IEC 60502

Part Name	Conductor resistance [Ω/km]	Ampacity (in air) [A]	Thickness of insulation [mm]	Thickness of sheath [mm]	Outer diameter [mm]	Bending radius [mm]	Aluminum Weght [kg/km]	Weight [kg/km]
1 x 2,5 re	12,1	26	0,7	1,8	6,73	101	6,75	54,84
1 x 4 re	7,41	35	0,7	1,8	7,2	108	10,80	63,87
1 x 6 re	5,11	43	0,7	1,8	7,7	115	16,20	74,5
1 x 10 re	3,08	58	0,7	1,8	8,45	127	27,0	93,95
1 x 16 re	1,91	79	0,7	1,8	9,4	141	43,20	120,59
1 x 25 rm	1,2	112	0,9	1,8	11,67	175	68,65	174,37
1 x35 rm	0,868	138	0,9	1,8	12,98	195	95,92	217,72
1 x 50 rm	0,641	171	1	1,8	14,3	215	137,0	269,29
1 x 70 rm	0,443	216	1,1	1,8	16,15	242	189	347,89
1 x95 rm	0,32	267	1,1	1,8	17,95	269	256,5	438,17
1 x 120 rm	0,253	313	1,3	1,8	19,85	298	324	534,13
1 x 150 rm	0,206	360	1,4	1,8	21,7	326	405	637,54
1 x 185 rm	0,164	419	1,7	1,8	23,95	359	499,5	777,96
1 x 240 rm	0,125	501	1,8	1,8	26,65	400	648	973,71
1x300 rm	0,1	580	1,8	1,8	29,25	439	810,0	1177,84
1x400 rm	0,778	682	2	1,9	32,79	492	1080,0	1485,61
1x500 rm	0,0605	800	2,2	2,0	36,75	551	1350	1874,85
1x630 rm	0,0469	936	2,4	2,2	41,42	622	1701	2387,63
2X2.5 re	12,1	25	0,7	1,8	10,86	130	13,5	154,01
2X4 re	7,41	34	0,7	1,8	12,4	149	21,6	205,93
2X6 re	5,11	43	0,7	1,8	13,8	166	32,4	260,06
2X10 re	3,08	58	0,7	1,8	15,3	184	54	329,09
2X16 re	1,91	78	0,7	1,8	17,6	211	86,4	446,24
3X2.5 re	12,1	24	0,7	1,8	11,33	136	20,25	164,09
3X4.0 re	7,41	34	0,7	1,8	12,94	155	32,4	220,63
3x6 re	5,11	43	0,7	1,8	14,42	173	48,6	280,24
3x10 re	3,08	58	0,7	1,8	16,43	197	81	378,74
3x16 re	1,91	78	0,7	1,8	18,67	224	129,6	502,71
3x25 rm	1,2	108	0,9	1,8	23,95	287	202,5	790,32
3x35 rm	0,868	134	0,9	1,8	26,77	321	283,5	992,14
3x50 rm	0,641	158	1	1,9	30,41	377	405	1297
3x70 rm	0,443	203	1,1	2	34,98	420	567	1728,74
3x95 rm	0,32	248	1,1	2,1	39,05	474	769,5	2174,92
3x120 rm	0,253	290	1,3	2,3	44,14	530	972	2768,26
3x150 rm	0,206	330	1,4	2,4	48,32	580	1215	3308,58
3x185 rm	0,164	382	1,7	2,5	53,75	645	1498,5	4097,1
3x240 rm	0,125	453	1,8	2,7	59,96	720	2004	5117,29
4X2.5 re	12,1	22	0,7	1,8	12,74	153	27	206,04
4X4.0 re	7,41	32	0,7	1,8	13,88	137	43,2	248,66
4x6 re	5,11	40	0,7	1,8	15,88	191	64,8	335,85
4x10 re	3,08	54	0,7	1,8	18,29	219	108	464,77
4x16 re	1,91	73	0,7	1,8	20,58	247	172,8	603,53
4x25 rm	1,2	100	0,9	1,8	26,65	320	270	957,85
4x35 rm	0,868	125	0,9	1,8	29,81	358	378	1201,62
4x50 rm	0,641	147	1	1,8	33,59	403	540	1547,91
4x70 rm	0,443	189	1,1	2,1	39,05	469	756	2098,85
4x95 rm	0,32	231	1,1	2,2	43,58	523	1026	2638,44
4x120 rm	0,253	270	1,3	2,4	48,56	583	1256	3253,18
4x150	0,206	307	1,4	2,6	53,82	646	1620	3983,48
4x185 rm	0,164	355	1,7	2,7	60,04	720	1998	4959,62
4x240 rm	0,125	421	1,8	2,9	66,95	803	2660	6187,12

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4 Didmamishvili str. Akhaltsikhe, Georgia; Tel: 593 26 23 16

16 Microdistrict , Business center , Rustavi, Georgia; Tel: 599 777 887

4 Davitashvili Str., Telavi, Georgia. Tel: 593 34 82 82


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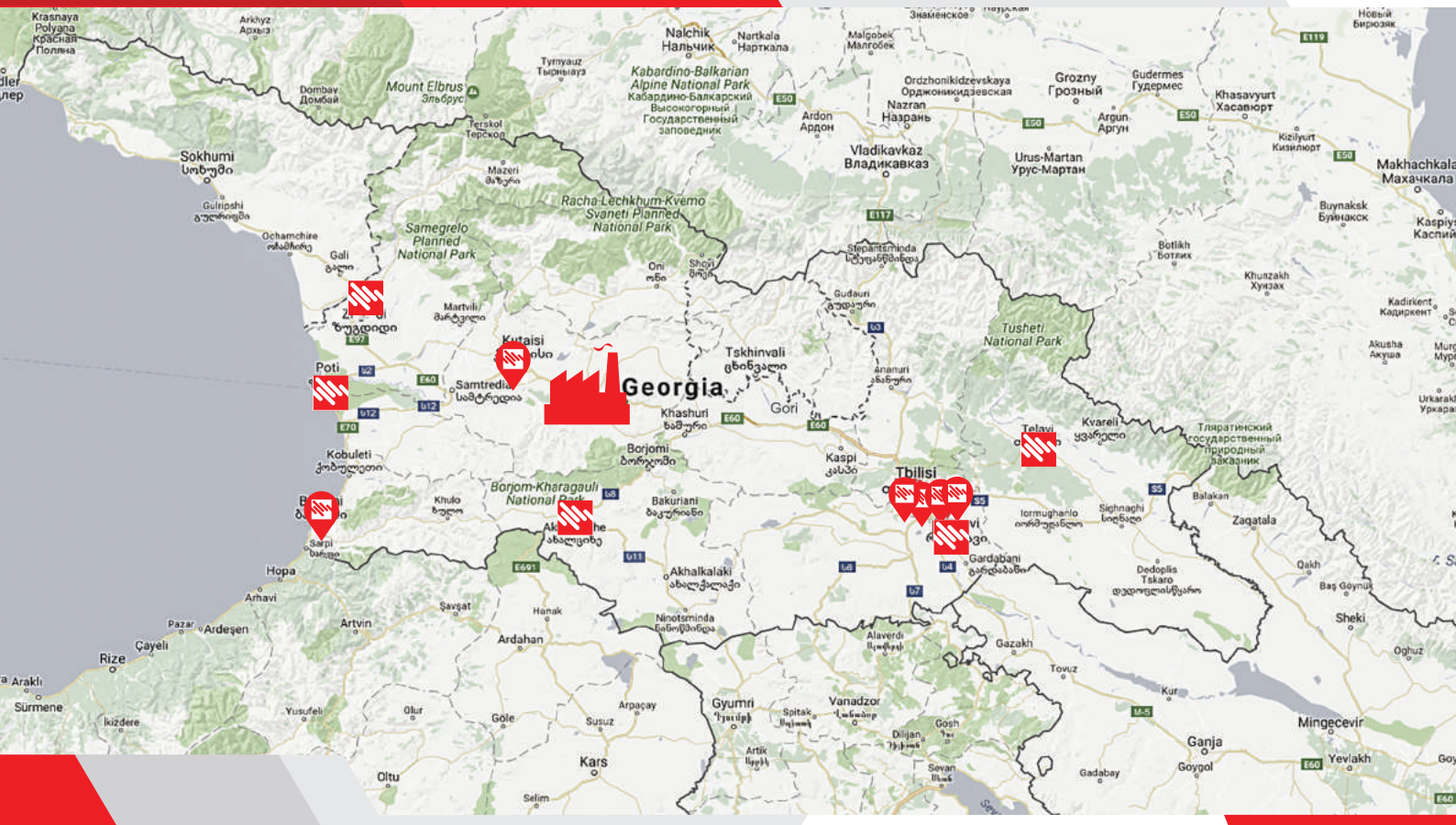
SAKCABLE



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