



SAK CABLE



ADVANCING  
STANDARDS FORWARD

SINCE  
1958

სამკვეთი





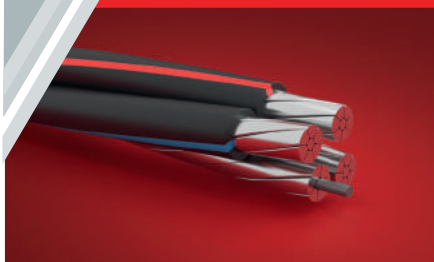
## CONTENT

### UNINSULATED



| name                            | p. |
|---------------------------------|----|
| AAC                             | 14 |
| ACSR                            | 16 |
| Standard bare cooper wire       | 18 |
| Fixed standard bare cooper wire | 20 |
| Standard steel wire             | 22 |

### SELF-SUPPORTING



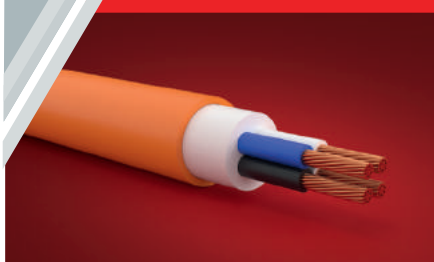
| name               | p. |
|--------------------|----|
| ABC cable (AXKA)   | 24 |
| ABC cable (AXKA-T) | 26 |
| ABC cable (SAX)    | 28 |
| ABC cable          | 30 |

### MOUNTING



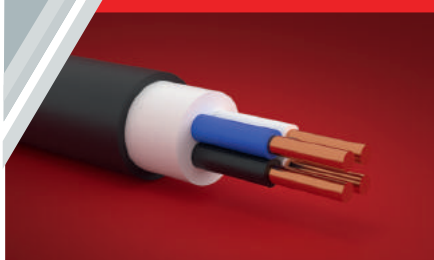
| name                       | p. | name      | p. |
|----------------------------|----|-----------|----|
| H05V-U / H05V-R            | 32 | H05VVH2-F | 42 |
| H05V-K                     | 34 | H05VV-F   | 44 |
| H05Z-U / H07Z1-U / H05Z1-R | 36 | NYM       | 46 |
| H07Z1-K                    | 38 | NHXMH     | 48 |
| H05VVH2-U                  | 40 |           |    |

### POWER SECURITY



| name        | p. |
|-------------|----|
| N2XH FE-180 | 50 |
| NHXH FE-180 | 52 |

### POWER



| name  | p. | name    | p. | name  | p. |
|-------|----|---------|----|-------|----|
| NYIFY | 54 | NA2XH   | 70 | NAIFY | 82 |
| NAYY  | 56 | NYCY    | 72 | NAIFY | 84 |
| NYY   | 60 | N01N2-D | 74 | YSLY  | 86 |
| NA2XY | 64 | N07RN-F | 76 |       |    |
| N2XH  | 68 | NAXY    | 78 |       |    |

### SOLAR



| name | p. |
|------|----|
| NYCY | 88 |

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.



**SIKORA**  
LASER 2030 XY



## CERTIFICATE

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



### 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.

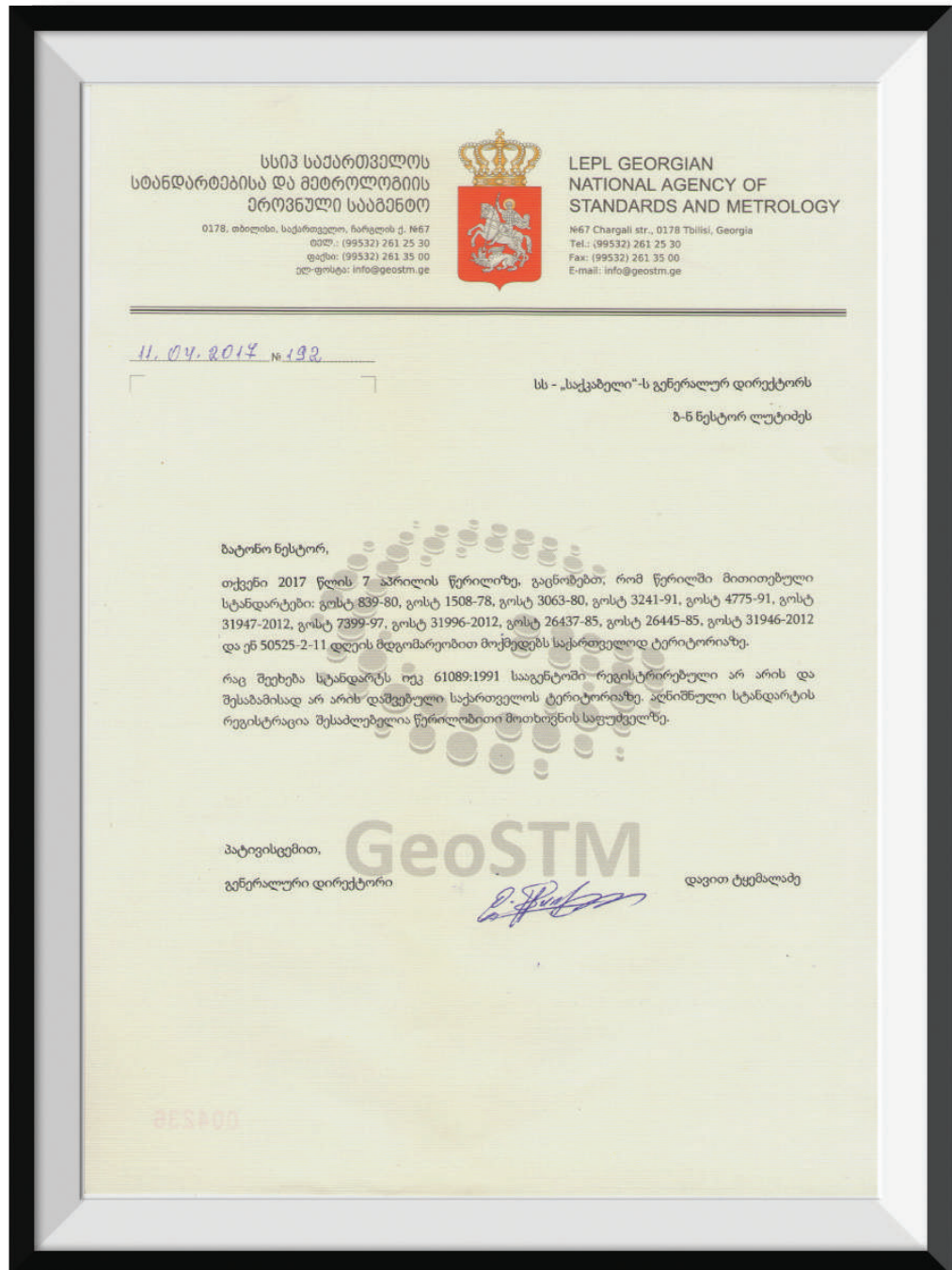
## CERTIFICATE OF GERMAN COMPANY 'SKET' ON TECHNICAL COMPLIANCE



### SKET

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 OF CONFORMITY



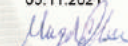
## CERTIFICATE OF CONFORMITY

|                                              |                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Product :</b>                             | 2X11 cross-linked polyethylene insulated, HM4 thermoplastic polyolefin compound sheathed energy cables. |
| <b>Tested by request of:</b>                 | JSC SAKCABLE<br>STAROSELSK STR. 1 5,ZESTAFONI, GEORGIA                                                  |
| <b>Rating and principal characteristics:</b> | 0,6/1 (1,2) kV                                                                                          |
| <b>Trade mark (if any)</b>                   | JSC SAKCABLE                                                                                            |
| <b>Model/Type ref:</b>                       | N2XH 5x1,5 mm <sup>2</sup> , N2XH 1x240 mm <sup>2</sup>                                                 |

**Additional information (if any)**  
A sample of the product has been tested and found to be in conformity with the current HD 604 S1/A3:2005  
as shown in the test reports TR\_2021981\_1

This statement is the result of testing a sample of the product submitted, in accordance with the the revelant specific standard



05.11.2021  
  
S. Müge Okumuş  
E&E Division Manager







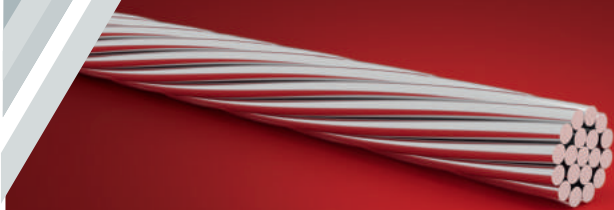
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| <div> <div> ZERTIFIKAT<br/> CERTIFICATE<br/> CERTIFICADO<br/> СЕРТИФИКАТ<br/> 認證證書 </div> <div> CERTIFICATE<br/> CERTIFICADO<br/> СЕРТИФИКАТ<br/> CERTIFICATE<br/> CERTIFICADO </div> </div> | <div>  <p>Management Service</p> </div> <div> <h1>CERTIFICATE</h1> <p>The Certification Body<br/>of TÜV SÜD Management Service GmbH<br/>certifies that</p> <div>  <p><b>JSC "Sakcable"</b><br/>15 Staroselski str.<br/>2000 Zestafoni<br/>Georgia</p> </div> <p>has established and applies<br/>an Occupational Health and Safety Management System for</p> <p><b>Production and Supply of<br/>Cable Product.</b></p> <p>An audit was performed, Order No. <b>70791390</b>.<br/>Proof has been furnished that the requirements<br/>according to</p> <p><b>ISO 45001:2018</b></p> <p>are fulfilled.</p> <p>The certificate is valid from <b>2020-10-21</b> until <b>2023-10-20</b>.<br/>Certificate Registration No.: <b>12 117 43010 TMS</b>.</p> <div>  <p>Product Compliance Management<br/>Munich, 2020-10-21</p>  <p>Deutsche<br/>Akkreditierungsstelle<br/>D-22611 Hamburg</p> </div> <div> <p>TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Fidlerstrasse 57 • 80339 München • Germany<br/>www.tuv-sud.de/certificate-validity-check</p> <p>TÜV®</p> </div> </div> |
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# LABORATORY ACCREDITATION CERTIFICATE



## UNINSULATED



AAC

STANDARD

AAC IEC61089,SFS 5701

**Uninsulated conductor stranded 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 than 150mg/m<sup>2</sup> per day (150mg/m<sup>3</sup>) and according to standard 15150-69 in all microclimatic regions of the land.



-60°C



+50°C



+90°C



Bending radius not less than 10XD of conductor



## 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 LENGTH 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



## AAC IEC61089,SFS 5701

| Part Name | Conductor resistance [ $\Omega$ /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

Self-supporting

Mounting

Power

Control

## UNINSULATED



ACSR

STANDARD

IEC61089

**Aluminium Conductor Steel Reinforced**

## 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 than 150 mg/m<sup>2</sup> per day (1.5 mg/m<sup>3</sup>) and in all microclimatic regions of the land.

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 than 150 mg/m<sup>2</sup> per day (1.5 mg/m<sup>3</sup>) and Chlorine salt not more than 200 mg/m<sup>2</sup>, in all microclimatic regions of the land.



-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 LENGTH 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.

## ACSR IEC 61089

| Part Name | Conductor resistance [ $\Omega$ /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

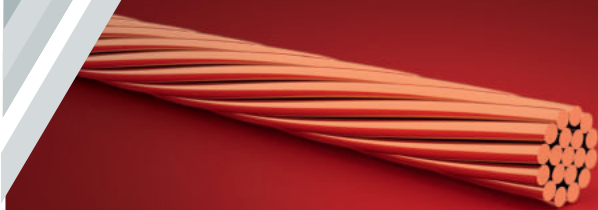
Self-supporting

Mounting

Power

Control

## UNINSULATED



Stranded bare copper wire

**Uninslated conductor stranded 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.



-60°C



+50°C



+90°C



Bending radius not less than 10XD of conductor



## 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



## Stranded bare copper wire

| Part Name | Conductor resistance [ $\Omega$ /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

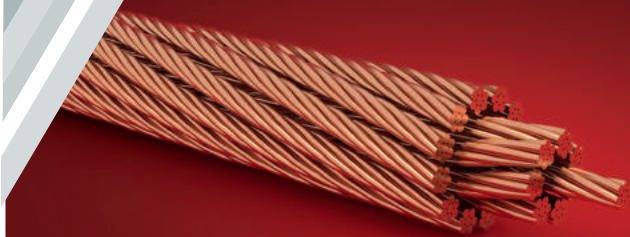
Self-supporting

Mounting

Power

Control

## UNINSULATED



Flexible Stranded bare copper wire

**Flexible uninsulated conductor stranded from copper wires.**

## APPLICATION

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



-60°C



+55°C



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 IEC 60228-2014.

Nominal section of the conductor is 1.5-up to 150mm<sup>2</sup>.

## THE CONSTRUCTION LENGTH OF THE CABLE

according to the sections it is as follows:

1,5 : 6mm<sup>2</sup> inclusive 50m

10 : 25mm<sup>2</sup> inclusive 2000m

35 : 70mm<sup>2</sup> inclusive 1000m

95 : 150mm<sup>2</sup> 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

## Flexible Stranded bare copper wire

| Part Name | Conductor resistance [ $\Omega$ /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

Self-supporting

Mounting

Power

Control



## UNINSULATED



Stranded steel wire

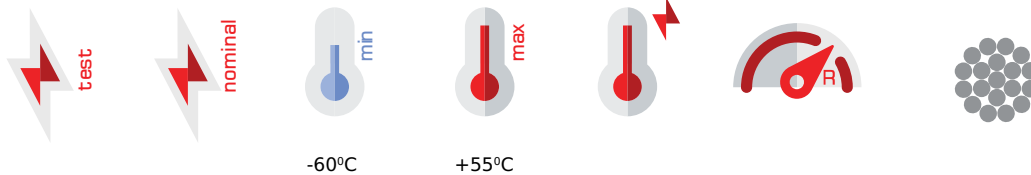
STANDARD

GOST 3063-90

**Cable (rope) stranded 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 LENGTH 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

not less than 25 years

## WARRANTY PERIOD

2 years



## Stranded steel wire

| Part Name | Cross-Sectional area [mm] | Outer diameter [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                              |



Uninsulated

Self-supporting

Mounting

Power

Control

## SELF-SUPPORTING



ABC Cable (AXKA)

STANDARD

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)

## ABC Cable

| Part Name    | Conductor resistance [ $\Omega$ /km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Wire dimension [mm] | Bending radius [mm] | Aluminium Weight [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            |



Uninsulated

Self-supporting

Mounting

Power

Control



## SELF-SUPPORTING



ABC Cable (AXKA -T)

STANDARD

STANDARD DIN VDE 0276-626 s1 - 6

**Self - supporting Aluminum conductor, with polyethylene 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



-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

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

## THE CONSTRUCTION LENGTH 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)



## ABC Cable

| Part Name    | Conductor resistance [ $\Omega$ /km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Wire dimension [mm] | Bending radius [mm] | Aluminium Weight [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            |



Uninsulated

Self-supporting

Mounting

Power

Control

## SELF-SUPPORTING

## ABC Cable (SAX)

## STANDARD

STANDARD DIN VDE 0276-626 s1 - 6

**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 LENGTH 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)

## ABC Cable

| Part Name | Conductor resistance [ $\Omega$ /km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Wire dimension [mm] | Bending radius [mm] | Aluminium Weight [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            |

Uninsulated

Self-supporting

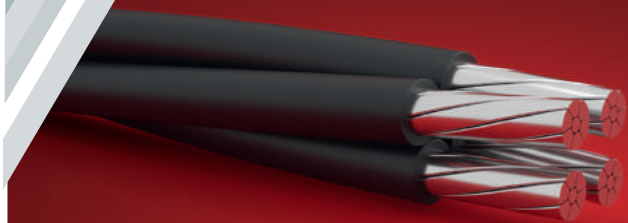
Mounting

Power

Control



## SELF-SUPPORTING



## ABC Cable

## STANDARD

DIN VDE 0276-626 s1 - 4F1

**Aluminum compacted-core conductor, with polyethylene 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 LENGTH 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, 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)



## ABC Cable

| Part Name | Conductor resistance [ $\Omega$ /km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Wire dimension [mm] | Bending radius [mm] | Aluminium Weight [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           |



Uninsulated

Self-supporting

Mounting

Power

Control

## MOUNTING

H05V-U / H05V-R

STANDARD

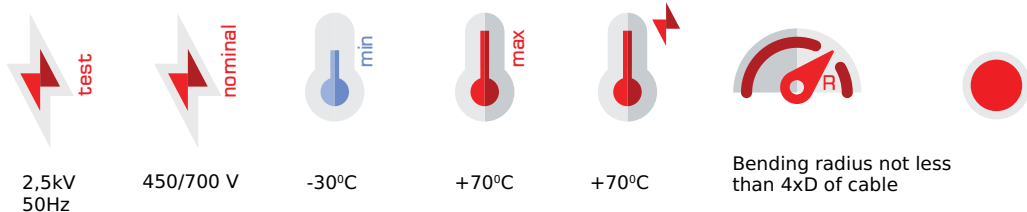
EN 50525-2-31

## PVC Insulated Installation Cable

## 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.



- 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 1.0-6mm<sup>2</sup> inclusive are produced with one wire of 1 class flexibility, according to Gost standard 22483, 10-240mm<sup>2</sup> 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 LENGTH 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.

## H05V-U / H05V-R

| 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        |

**i** re - Single-core  
rm - Multi-core



Uninsulated

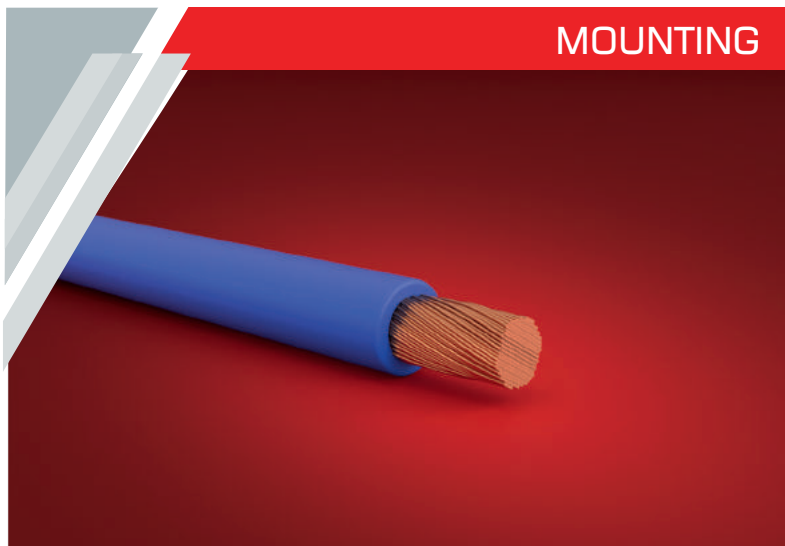
Self-supporting

Mounting

Power

Control

## MOUNTING



H05V-K

STANDARD

EN 50525-2-31

**PVC Insulated Flexible Installation Cable**

## 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.

2kV  
50Hz

300/500 V



-30°C



+70°C



+70°C



- 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 1,5-4,0mm<sup>2</sup> inclusive are produced with PPV-1 flexibility and PPV-3 with 3,4 class flexibility according to the standard 22483-77. 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.

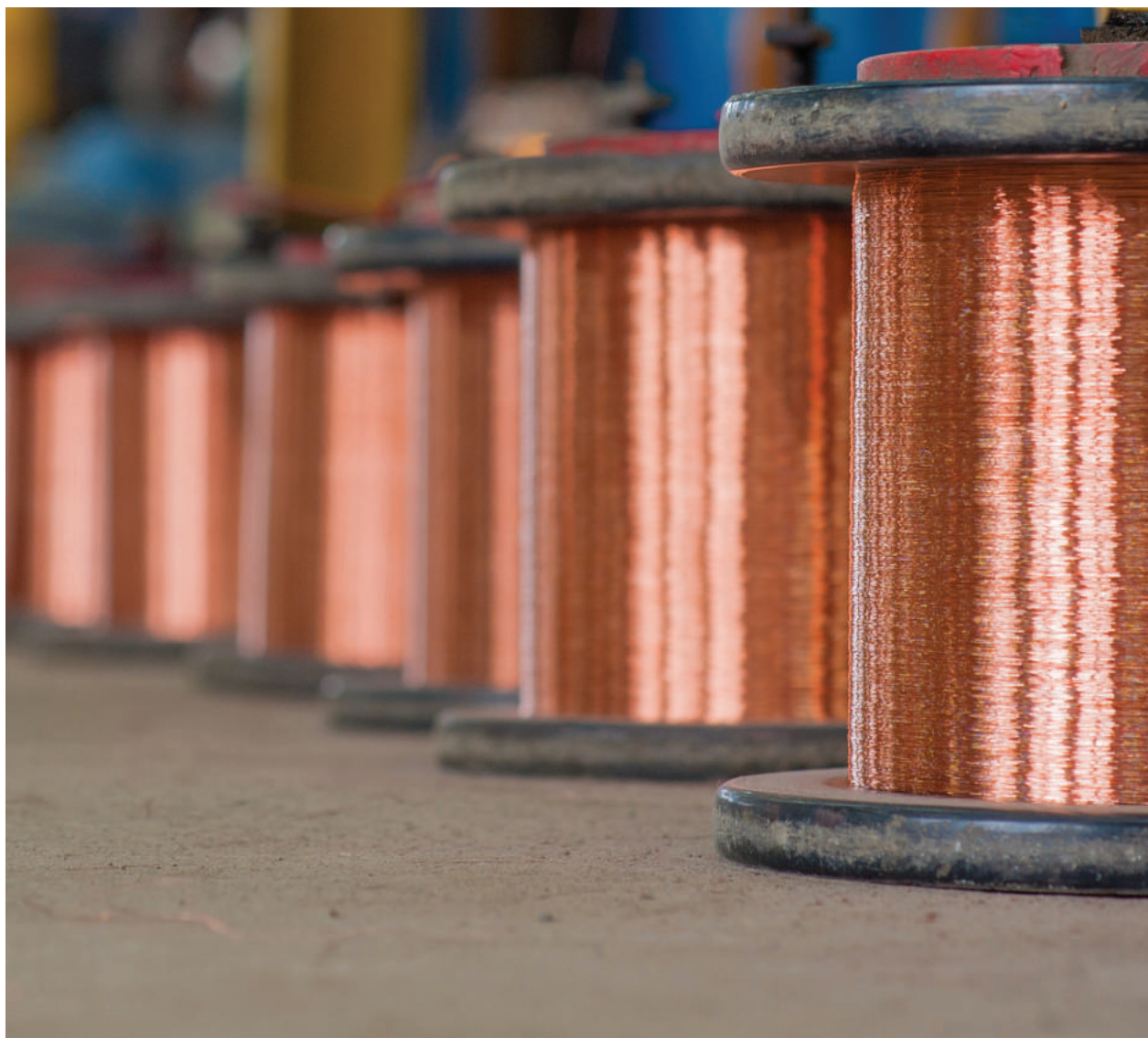


## H05V-K

| 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



Uninsulated

Self-supporting

Mounting

Power

Control

## MOUNTING

H05Z1-U / H07Z1-U / H07Z1-R

STANDARD

EN 50525-3-31

**HFFR Insulated, Copper Installation Cable**

## APPLICATION

It is used For internal wiring, lighting and power circuits in crowded fire-sensitive areas, business centers, hotels, schools, tall buildings, hospitals, data processing centers and etc. for rated voltage up to 450V (for networks 450/750V) frequency up to 400 Hz or permanent voltage 1000V.

2 KV  
50Hz

300/500 V



-30°C



+70°C



+70°C

Bending radius not less  
than 4xD of cable

- Installation temperature: not less than -5°C.
- Conductive lobe for long-term allowable heating temperature +70°C.
- The conductor is resistant to 100% relative air humidity under +35°C.

## CONSTRUCTION

Solid single round conductor

## THE CONSTRUCTION LENGTH 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

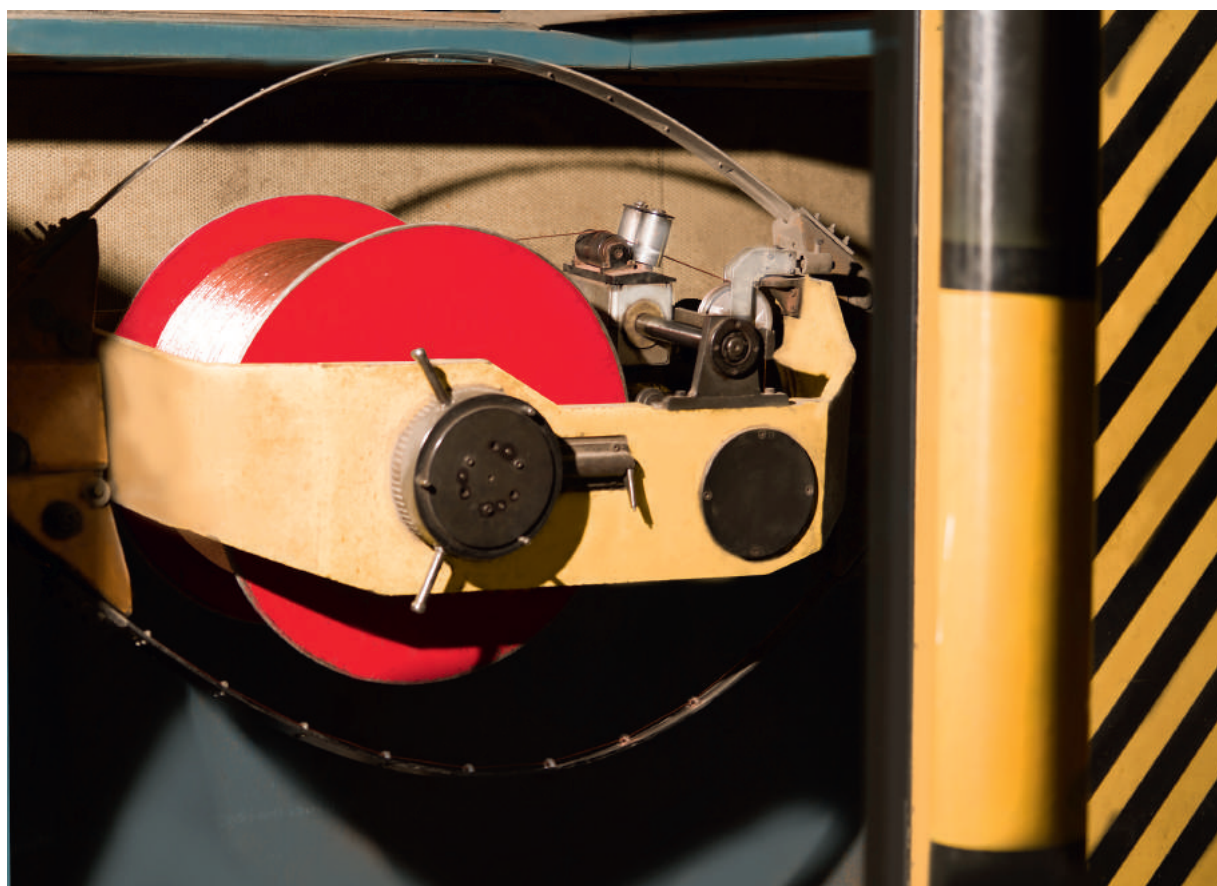
2 years after entering into service, in the proper installation and working conditions.

## H07Z1-U EN 50525-3-31

| Part Name | Conductor resistance [Ω/km] | Ampacity (in air) [A] | Outer diameter [mm] | CU Weight [kg/ km] | Weight [kg/km] |
|-----------|-----------------------------|-----------------------|---------------------|--------------------|----------------|
| 1*1.5     | 12.1                        | 24                    | 2.75                | 13.3               | 19.45          |
| 1*2.5     | 7.41                        | 32                    | 3.35                | 21.3               | 30.45          |
| 1*4       | 4.61                        | 42                    | 3.8                 | 35.5               | 44.65          |
| 1*6       | 3.08                        | 53                    | 4.3                 | 53.3               | 63.2           |
| 1*10      | 1.83                        | 74                    | 5.45                | 88.9               | 104.7          |

## H07Z1-R EN 50525-3-31

| Part Name | Conductor resistance [Ω/km] | Ampacity (in air) [A] | Outer diameter [mm] | CU Weight [kg/ km] | Weight [kg/km] |
|-----------|-----------------------------|-----------------------|---------------------|--------------------|----------------|
| 1*1.5     | 12.1                        | 24                    | 2.95                | 13.3               | 20.3           |
| 1*2.5     | 7.41                        | 32                    | 3.6                 | 21.3               | 32.1           |
| 1*4       | 4.61                        | 42                    | 4.1                 | 35.5               | 46.45          |
| 1*6       | 3.08                        | 53                    | 4.65                | 53.3               | 64.9           |
| 1*10      | 1.83                        | 74                    | 5.9                 | 88.9               | 109.1          |
| 1*16      | 1.15                        | 98                    | 6.85                | 136.3              | 163.5          |
| 1*25      | 0.727                       | 133                   | 8.45                | 215.2              | 253.4          |
| 1*35      | 0.524                       | 162                   | 9.55                | 300.3              | 343.7          |
| 1*50      | 0.387                       | 197                   | 11.2                | 414.5              | 463.3          |
| 1*70      | 0.268                       | 250                   | 12.9                | 582.3              | 660.1          |
| 1*95      | 0.193                       | 308                   | 15.1                | 814.5              | 912.2          |
| 1*120     | 0.153                       | 359                   | 16.25               | 1003.2             | 1131           |
| 1*150     | 0.124                       | 412                   | 18.2                | 1292.1             | 1399           |
| 1*185     | 0.0991                      | 475                   | 20.65               | 1614.7             | 1772           |
| 1*240     | 0.0754                      | 564                   | 23.45               | 2118.6             | 2314           |



Uninsulated

Self-supporting

Mounting

Power

Control

## MOUNTING

H07Z1- K

STANDARD

EN 50525-3-31

**HFFR Insulated, Flexible Installation Cable**

## APPLICATION

It is used For internal wiring, lighting and power circuits in crowded fire-sensitive areas, business centers, hotels, schools, tall buildings, hospitals, data processing centers and etc. for rated voltage up to 450V (for networks 450/750V) frequency up to 400 Hz or permanent voltage 1000V.



2.5 KV  
50Hz



450/700 V



-30°C



+70°C



+70°C



Bending radius not less  
than 4xD of cable



- Installation temperature: not less than -5°C.
- Conductive lobe for long-term allowable heating temperature +70°C.
- The conductor is resistant to 100% relative air humidity under +35°C.

## CONSTRUCTION

Multi wire round conductor

## 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.



| Part Name | Conductor resistance [Ω/km] | Ampacity (in air) [A] | Outer diameter [mm] | CU Weight [kg/ km] | Weight [kg/km] |
|-----------|-----------------------------|-----------------------|---------------------|--------------------|----------------|
| 1*1.5     | 13.30                       | 24                    | 2.95                | 13.3               | 21.99          |
| 1*2.5     | 7.98                        | 32                    | 3.55                | 22.2               | 31.84          |
| 1*4       | 4.95                        | 42                    | 4.1                 | 35.5               | 47.69          |
| 1*6       | 3.30                        | 53                    | 4.65                | 53.3               | 66.51          |
| 1*10      | 1.91                        | 73                    | 6.10                | 88.9               | 109.78         |
| 1*16      | 1.21                        | 98                    | 7.10                | 136.3              | 166.57         |
| 1*25      | 0.78                        | 129                   | 8.70                | 223.6              | 273.48         |
| 1*35      | 0.554                       | 158                   | 10.40               | 314.7              | 372.74         |
| 1*50      | 0.386                       | 197                   | 12.15               | 447.5              | 521.99         |
| 1*70      | 0.272                       | 245                   | 14.50               | 629.9              | 727.72         |
| 1*95      | 0.206                       | 292                   | 16.55               | 832.67             | 947.58         |
| 1*120     | 0.161                       | 344                   | 18.55               | 1079.4             | 1222.15        |
| 1*150     | 0.129                       | 391                   | 20.60               | 1327.6             | 1494.45        |
| 1*185     | 0.106                       | 448                   | 22.80               | 1826.2             | 1826.26        |
| 1*240     | 0.0801                      | 528                   | 28.60               | 2146.7             | 2419.00        |



Uninsulated

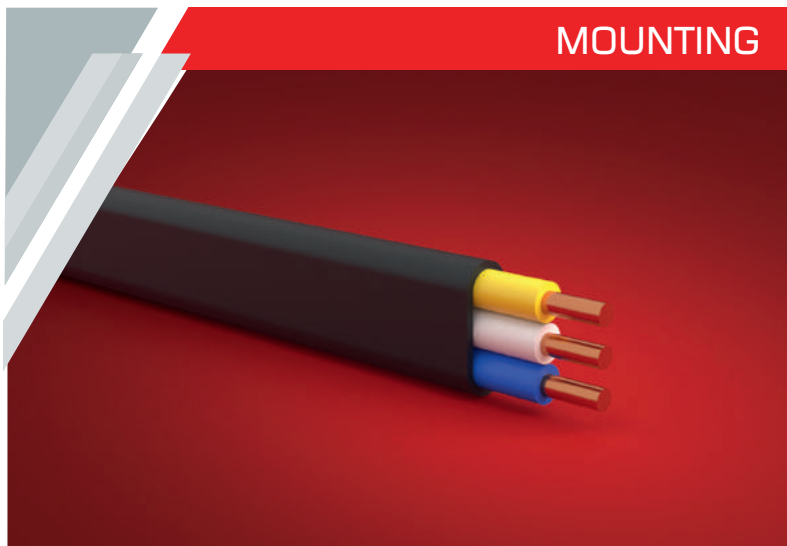
Self-supporting

Mounting

Power

Control

## MOUNTING



H05VVH2-U

STANDARD

EN 50525 2-11

**Multi-core copper installation flat cable, with PVC insulation and sheath**

## APPLICATION

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



Bending radius not less than 12xD 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 mm<sup>2</sup> are made with single core 1 class flexibility, according to the standard IEC 60228-2014. Number of cores in the conductor 2,3

## THE CONSTRUCTION LENGTH 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

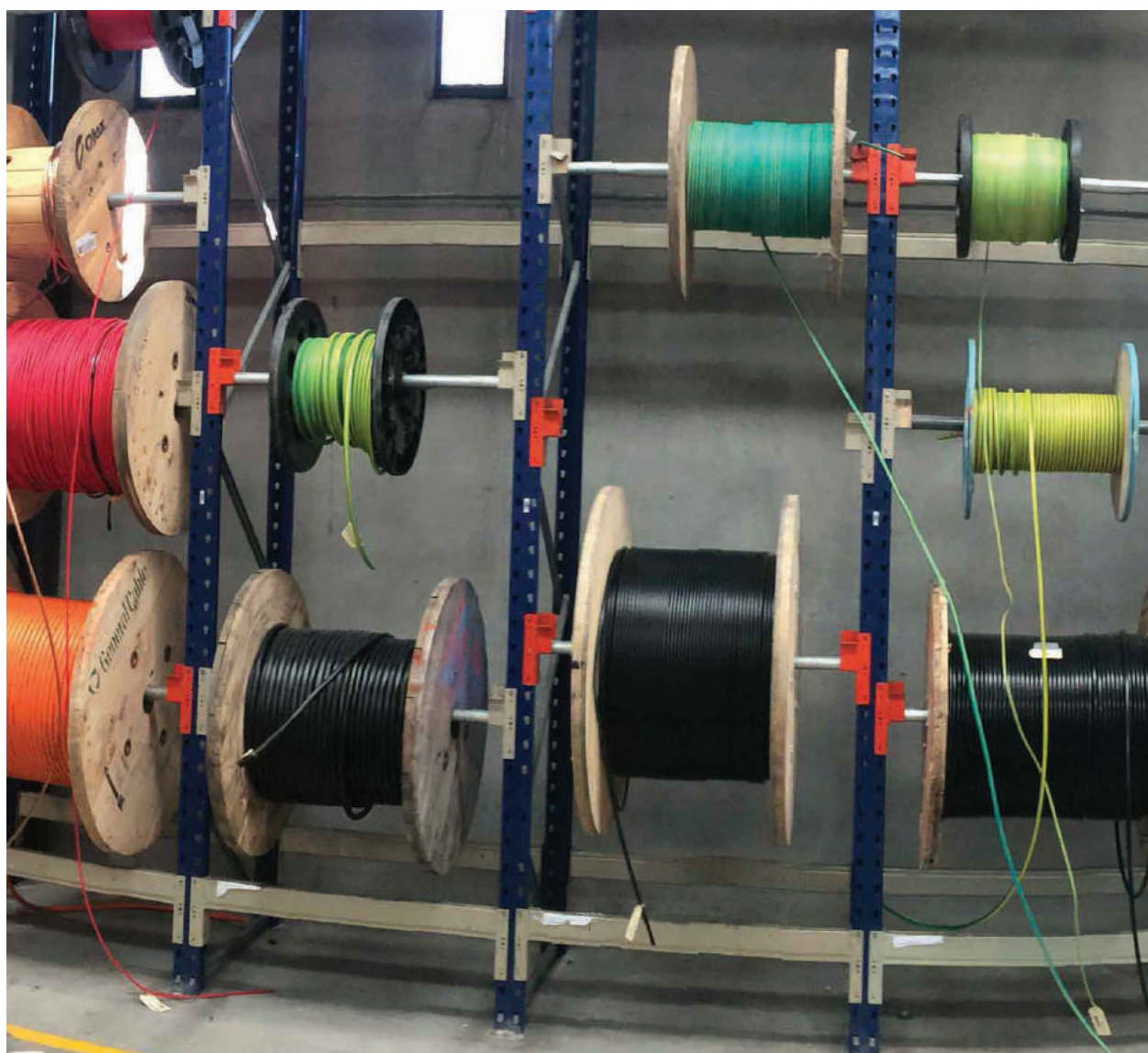
not less than 15 years

## WARRANTY PERIOD

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

## H05VVH2-U

| Part Name | Conductor resistance [ $\Omega$ /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] |
|-----------|--------------------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 2X1.0     | 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         |



Uninsulated

Self-supporting

Mounting

Power

Control

## MOUNTING

H05VVH2-F

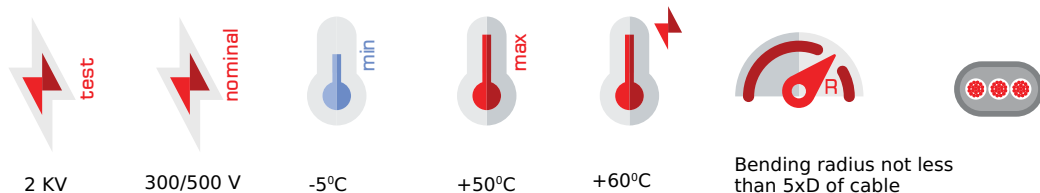
STANDARD

EN 50525 2-11

**Flexible Multi core copper instalation flat cable, with PVC insulation and sheat**

## 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



- 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 section 0.75-4.0mm<sup>2</sup> inclusive are produced with multi-wire 3 and 4 class flexibility, according to the standard IEC 60228-2014. 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

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 [ $\Omega$ /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    | 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         |



Uninsulated

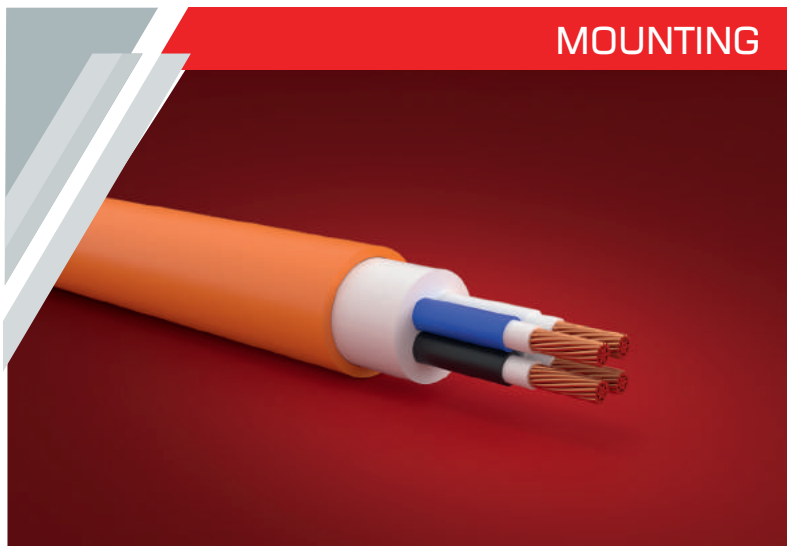
Self-supporting

Mounting

Power

Control

## MOUNTING



H05VV-F

STANDARD EN 50525 2-11

**Flexible Multi core copper cable, with PVC insulation and sheath**

## 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



2,0 kv



300/500 V



-5°C



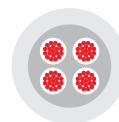
+40°C



+60°C



Bending radius not less than 5xD 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

The cores are made with twisted multi-wire copper with not less than 5 class flexibility, according to the standard IEC 60228-2014.  
Section of the conductor core 0,75-16mm<sup>2</sup>  
Number of cores in the conductor 2,3,4,5

## THE CONSTRUCTION LENGTH 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.

## H05 VV-F

| Part name | Conductor resistance [ $\Omega$ /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        |



Uninsulated

Self-supporting

Mounting

Power

Control



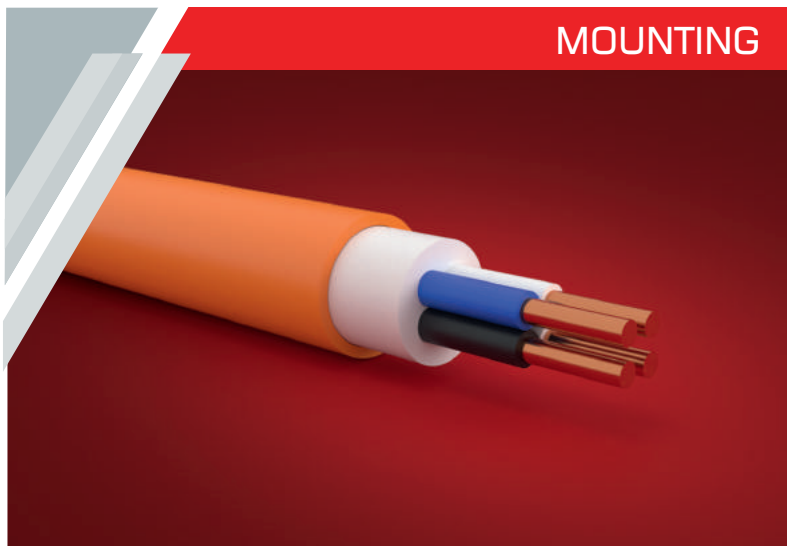
## MOUNTING

NYM

STANDARD

DIN VDE 0250-204

## PVC Insulated Multi Core Installation Cables



## 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



300/500V



-30°C



+70°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 copper cores with section 1,5-6mm<sup>2</sup> inclusive are produced with single wire of 1 class flexibility, 10-35mm<sup>2</sup> inclusive with twisted multi-core wires ( 7 wires) of 2 class flexibility, according to standard IEC 60228-2014 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 DIN VDE 0250-204

| 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  | 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        |

*i* re - Single-core  
rm - Multi-core



Uninsulated

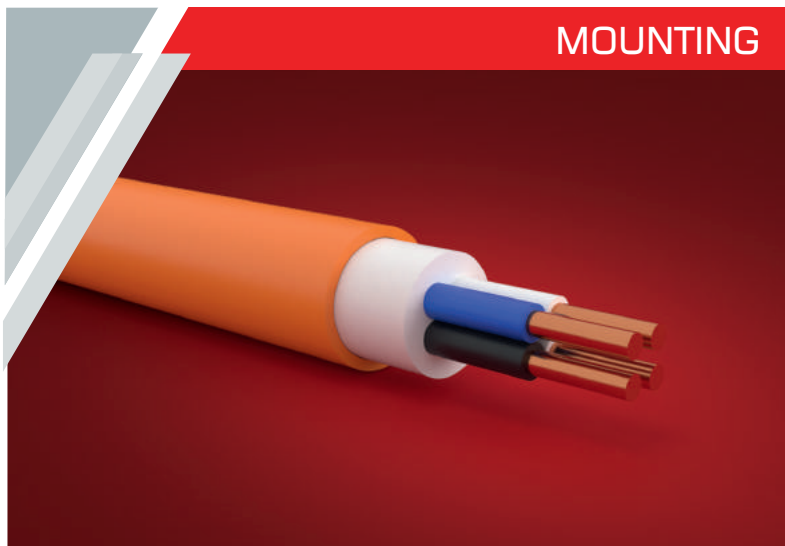
Self-supporting

Mounting

Power

Control

## MOUNTING



NHXMH

STANDARD

VDE 250-214

**Halogen free flame retardant Multi Core Installation Cable**

## 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



300/500V



-30°C



+70°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 1.5-6mm<sup>2</sup> are made with single-core with 1 class flexibility, according to the standard IEC60228; Cross-section 16:35mm<sup>2</sup> are made of twisted multi-core with 2 class flexibility, according to the standard IEC60228; 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 VDE 250-214

| 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] |
|------------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 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



Uninsulated

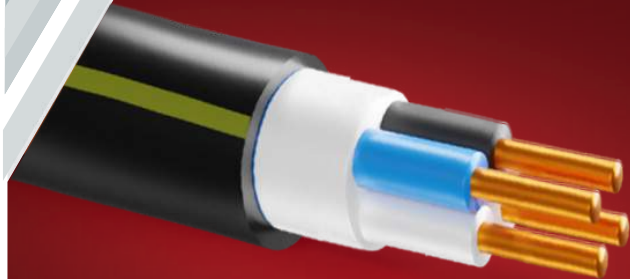
Self-supporting

Mounting

Power

Control

## MOUNTING



CYKY

STANDARD

SN 347614-3A

**Power cable 0,6/1 kV with Cu conductors, PVC insulated and sheathed**

## APPLICATION

The cable is designed for fixed installation. The cable is resistant to UV radiation and is suitable to install in interior premises or in the open air places where there is no risk of mechanical damage.



4Kv



450/750 V



-35°C



+70°C



+70°C



Bending radius (min): multicore - 12D



- Minimal temperature for installation: -5°C.
- Maximal short-circuit temperature +160°C

## CONSTRUCTION

Copper conductor of class 1 or 2 according to EN 60228, with PVC insulation, PVC outer sheath  
Service lifetime and guarantee.

## 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



| No. of cores and cross-section | Power load air/ground | Effective resistance of conductor $\Omega/\text{km}$ | Nominal insulation thickness mm. | Bending Radius mm. | Outer diameter approx. |
|--------------------------------|-----------------------|------------------------------------------------------|----------------------------------|--------------------|------------------------|
| CYKY 2 X 1.5                   | 18.5/28               | 12.53                                                | 0.7                              | 47.4               | 7.9                    |
| CYKY 2 X 2.5                   | 25/36                 | 7.52                                                 | 0.8                              | 54.36              | 9.1                    |
| CYKY 2 X 4                     | 34/48                 | 4.7                                                  | 0.8                              | 60                 | 10.0                   |
| CYKY 2 X 6                     | 43/61                 | 3.133                                                | 0.8                              | 69.96              | 11.7                   |
| CYKY 2 X 10                    | 60/81                 | 1.88                                                 | 1.0                              | 89.52              | 14.9                   |
| CYKY 3 X 1.5                   | 18.5/28               | 12.53                                                | 0.7                              | 49.86              | 8.3                    |
| CYKY 3 X 2.5                   | 25/36                 | 7.52                                                 | 0.8                              | 57.36              | 9.6                    |
| CYKY 3 X 4                     | 34/48                 | 4.7                                                  | 0.8                              | 63.42              | 10.6                   |
| CYKY 3 X 6                     | 43/61                 | 3.133                                                | 0.8                              | 73.86              | 12.3                   |
| CYKY 3 X 10                    | 60/81                 | 1.88                                                 | 1.0                              | 97.26              | 16.2                   |
| CYKY 4 X 1.5                   | 18.5/28               | 12.53                                                | 0.7                              | 54.18              | 9.0                    |
| CYKY 4 X 2.5                   | 25/36                 | 7.52                                                 | 0.8                              | 62.58              | 10.4                   |
| CYKY 4 X 4                     | 34/48                 | 4.7                                                  | 0.8                              | 69.36              | 11.6                   |
| CYKY 4 X 6                     | 43/61                 | 3.133                                                | 0.8                              | 80.64              | 13.4                   |
| CYKY 4 X 10                    | 60/81                 | 1.88                                                 | 1.0                              | 106.56             | 17.8                   |
| CYKY 5 X 1.5                   | 18.5/28               | 12.53                                                | 0.7                              | 58.98              | 9.8                    |
| CYKY 5 X 2.5                   | 25/36                 | 7.52                                                 | 0.8                              | 68.34              | 11.4                   |
| CYKY 5 X 4                     | 34/48                 | 4.7                                                  | 0.8                              | 75.96              | 12.7                   |
| CYKY 5 X 6                     | 43/61                 | 3.133                                                | 0.8                              | 88.14              | 14.7                   |
| CYKY 5 X 10                    | 60/81                 | 1.88                                                 | 1.0                              | 233.88             | 19.5                   |



Uninsulated

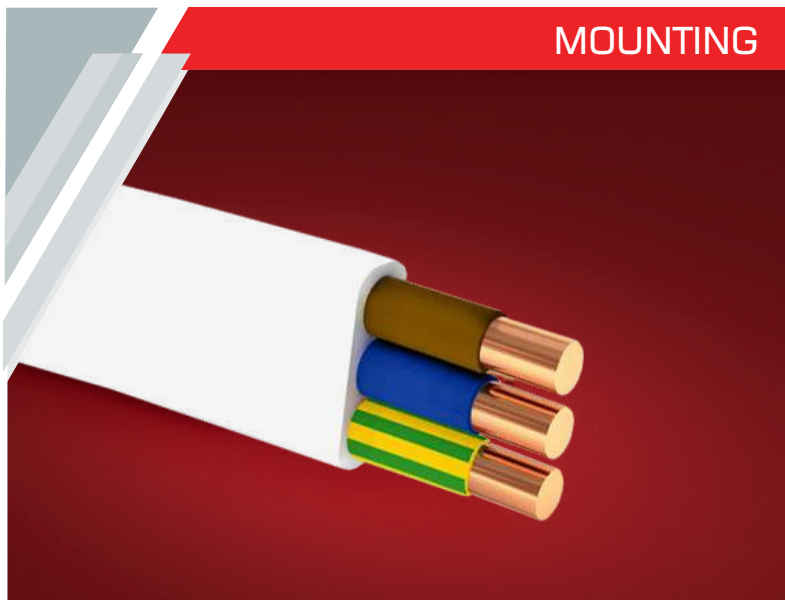
Self-supporting

Mounting

Power

Control

## MOUNTING



YDYp

STANDARD

PN-E- 90068

**Installation cables with PVC insulation**

## APPLICATION

Standard house wiring cable is designed for fixed installation without additional protection, indoors, in air, in and under plaster, in brick and concrete. Applicable rules of installation must be applied at all times.



2 kV  
2,5 kV



300/500 V  
450/750 V



-40°C



+70°C



+70°C



Min. bending radius 4d (smaller cable dimension)



- Min. temperature for laying and manipulation -5°C.
- Maximal short-circuit temperature +160°C

## CONSTRUCTION

Copper conductor class 1 with PVC insulation and PVC outer sheath.

## 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

| No. of cores and cross-section | Effective resistance of conductor $\Omega/\text{km}$ | Nominal insulation thickness mm | Nominal sheath thickness | Outer diameter approx. |
|--------------------------------|------------------------------------------------------|---------------------------------|--------------------------|------------------------|
| YDYp 2 X 1.5                   | 12.1                                                 | 0.6                             | 0.9                      | 5.26*8.12              |
| YDYp 2 X 2.5                   | 7.41                                                 | 0.6                             | 0.9                      | 5.66*8.92              |
| YDYp 3 X 1.5                   | 12.1                                                 | 0.6                             | 0.9                      | 5.26*10.98             |
| YDYp 3 X 2.5                   | 7.41                                                 | 0.6                             | 1.0                      | 5.66*12.18             |



Uninsulated

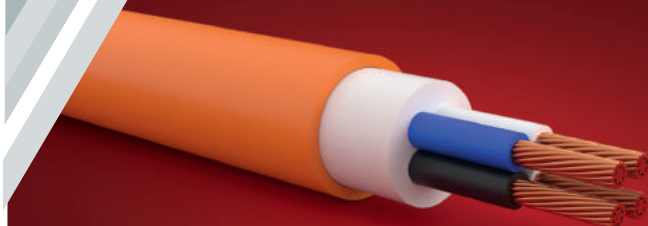
Self-supporting

Mounting

Power

Control

## POWER SECURITY



N2XH FE-180

STANDARD

IEC 60502-1

**Fire resistant halogen free flame retardant power security cable**

## APPLICATION

Halogen free, fire resistant cables (FE 180), that do not generate high smoke density during fire and can function under flame for 180 minutes. It is used indoors, in locations where there is a big human traffic and therefore high demand of a protection against fire damage.



4KV



0.6/1KV



-15°C



+70°C



+90°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
- 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

Solid copper conductor with Flame protecting Insulation, Low Smoke Zero Halogen inner and outer sheath

## 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



## N2XH FE-180 IEC 60502-1

| 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] |
|-----------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 1*10      | 1.83                        | 99                    | 0.7                          | 1.40                     | 8.7                 | 105                 | 88.9                  | 154.4          |
| 1*16      | 1.15                        | 131                   | 0.7                          | 1.40                     | 9.8                 | 117                 | 142.2                 | 217.5          |
| 1*25      | 0.727                       | 177                   | 0.9                          | 1.40                     | 11.5                | 138                 | 222.3                 | 319.9          |
| 1*35      | 0.524                       | 217                   | 0.9                          | 1.40                     | 12.8                | 153                 | 311.2                 | 420.9          |
| 1*50      | 0.387                       | 265                   | 1                            | 1.40                     | 14.1                | 169                 | 444.5                 | 547.3          |
| 1*70      | 0.268                       | 336                   | 1                            | 1.80                     | 16.9                | 202                 | 622.3                 | 787.6          |
| 1*95      | 0.193                       | 415                   | 1.2                          | 1.80                     | 18.7                | 225                 | 844.6                 | 1 041.5        |
| 1*120     | 0.153                       | 485                   | 1.2                          | 1.80                     | 20.5                | 246                 | 1 066.8               | 1 290.2        |
| 1*150     | 0.124                       | 557                   | 1.4                          | 1.80                     | 22.4                | 269                 | 1 333.5               | 1 569.2        |
| 1*185     | 0.0991                      | 646                   | 1.6                          | 1.80                     | 24.7                | 296                 | 1 644.7               | 1 933.7        |
| 1*240     | 0.0754                      | 774                   | 1.7                          | 1.90                     | 27.6                | 331                 | 2 133.6               | 2 497.7        |
| 2*1.5     | 12.1                        | 24                    | 0.7                          | 1.40                     | 10.4                | 125                 | 27.5                  | 158.5          |
| 2*2.5     | 7.41                        | 32                    | 0.7                          | 1.80                     | 12.6                | 151                 | 45.8                  | 237.2          |
| 3*1.5     | 12.1                        | 24                    | 0.7                          | 1.80                     | 11.7                | 141                 | 41.2                  | 198.6          |
| 3*2.5     | 7.41                        | 32                    | 0.7                          | 1.80                     | 13.1                | 158                 | 68.7                  | 267.3          |
| 3*4       | 4.61                        | 42                    | 0.7                          | 1.80                     | 14.1                | 169                 | 109.9                 | 331.9          |
| 3*6       | 3.08                        | 53                    | 0.7                          | 1.80                     | 15.6                | 187                 | 164.8                 | 434.7          |
| 3*10      | 1.83                        | 74                    | 0.7                          | 1.80                     | 18.3                | 220                 | 274.7                 | 634.7          |
| 3*16      | 1.15                        | 98                    | 0.7                          | 1.80                     | 20.6                | 247                 | 439.5                 | 872.1          |
| 3*25      | 0.727                       | 133                   | 0.9                          | 1.80                     | 24.2                | 291                 | 686.8                 | 1 268.1        |
| 3*35      | 0.524                       | 162                   | 0.9                          | 1.80                     | 27.2                | 327                 | 961.5                 | 1 667.2        |
| 3*50      | 0.387                       | 197                   | 1                            | 1.80                     | 30.1                | 361                 | 1 373.5               | 2 140.0        |
| 3*70      | 0.268                       | 250                   | 1                            | 2.00                     | 35.1                | 421                 | 1 922.9               | 2 993.1        |
| 3*95      | 0.193                       | 308                   | 1.2                          | 2.20                     | 39.5                | 474                 | 2 609.7               | 3 957.7        |
| 3*120     | 0.153                       | 359                   | 1.2                          | 2.30                     | 43.9                | 526                 | 3 296.4               | 4 951.9        |
| 3*150     | 0.124                       | 412                   | 1.4                          | 2.50                     | 48.5                | 582                 | 4 120.5               | 6 056.3        |
| 3*185     | 0.0991                      | 475                   | 1.6                          | 2.70                     | 54.7                | 656                 | 5 082.0               | 7 645.3        |
| 3*240     | 0.0754                      | 564                   | 1.7                          | 2.90                     | 60.9                | 731                 | 6 592.8               | 9 762.0        |
| 4*1.5     | 12.1                        | 24                    | 0.7                          | 1.80                     | 13.2                | 158                 | 54.9                  | 250.8          |
| 4*2.5     | 7.41                        | 32                    | 0.7                          | 1.80                     | 14.1                | 169                 | 91.6                  | 309.3          |
| 4*4       | 4.61                        | 42                    | 0.7                          | 1.80                     | 15.2                | 182                 | 146.5                 | 389.7          |
| 4*6       | 3.08                        | 53                    | 0.7                          | 1.80                     | 16.8                | 202                 | 219.8                 | 515.1          |
| 4*10      | 1.83                        | 74                    | 0.7                          | 1.80                     | 19.9                | 238                 | 366.3                 | 760.8          |
| 4*16      | 1.15                        | 98                    | 0.7                          | 1.80                     | 22.4                | 269                 | 586.0                 | 1 058.1        |
| 4*25      | 0.727                       | 133                   | 0.9                          | 1.80                     | 26.7                | 320                 | 915.7                 | 1 567.0        |
| 4*35      | 0.524                       | 162                   | 0.9                          | 1.80                     | 29.8                | 358                 | 1 281.9               | 2 048.5        |
| 4*50      | 0.387                       | 197                   | 1                            | 2.00                     | 33.9                | 406                 | 1 831.3               | 2 716.2        |
| 4*70      | 0.268                       | 250                   | 1                            | 2.20                     | 39.0                | 468                 | 2 563.9               | 3 745.1        |
| 4*95      | 0.193                       | 308                   | 1.2                          | 2.30                     | 44.0                | 528                 | 3 479.5               | 4 996.9        |
| 4*120     | 0.153                       | 359                   | 1.2                          | 2.50                     | 48.6                | 584                 | 4 395.2               | 6 213.5        |
| 4*150     | 0.124                       | 412                   | 1.4                          | 2.70                     | 54.4                | 653                 | 5 494.0               | 7 697.5        |
| 4*185     | 0.0991                      | 475                   | 1.6                          | 2.90                     | 60.5                | 726                 | 6 776.0               | 9 573.6        |
| 4*240     | 0.0754                      | 564                   | 1.7                          | 2.90                     | 67.1                | 805                 | 8 790.4               | 12 182.4       |
| 5*1.5     | 12.1                        | 24                    | 0.7                          | 1.80                     | 13.5                | 162                 | 68.7                  | 267.3          |
| 5*2.5     | 7.41                        | 32                    | 0.7                          | 1.80                     | 15.6                | 187                 | 114.5                 | 380.2          |
| 5*4       | 4.61                        | 42                    | 0.7                          | 1.80                     | 16.8                | 202                 | 183.1                 | 481.9          |
| 5*6       | 3.08                        | 53                    | 0.7                          | 1.80                     | 18.6                | 223                 | 274.7                 | 623.2          |



Uninsulated

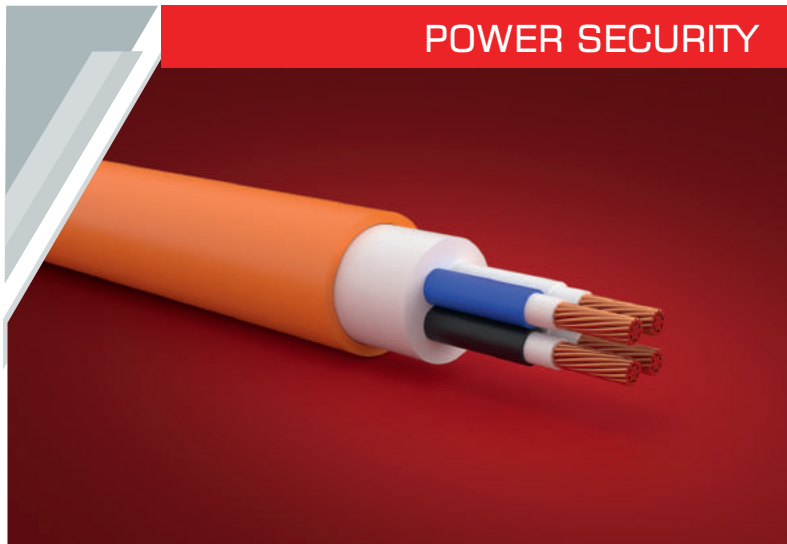
Self-supporting

Power Security

Power

Control

## POWER SECURITY



NHXH FE-180

STANDARD

VDE 0266

**Fire Performance halogen free flame retardant power cable with circuit integrity**

## APPLICATION

These cables are halogen free and fire resistant (FE 180), they can function under flame for 180 minutes and do not generate high smoke density during fire. They are used in places with high traffic, for safety regulations against fire



4KV



0.6/1KV



-15°C



+70°C



+90°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
- 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

Stranded copper conductor with Flame protecting Insulation, Low Smoke Zero Halogen inner and outer sheath

## 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

# NHXX FE-180 DIN VDE 0266

| 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] |
|-------------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 5*10        | 1.83                        | 74                    | 0.7                          | 1.80                     | 22.0                | 264                 | 457.8                 | 920.7          |
| 5*16        | 1.15                        | 98                    | 0.7                          | 1.80                     | 24.8                | 298                 | 732.5                 | 1 307.0        |
| 5*25        | 0.727                       | 133                   | 0.9                          | 1.80                     | 29.6                | 355                 | 1 144.6               | 1 939.8        |
| 5*35        | 0.524                       | 162                   | 0.9                          | 1.80                     | 33.5                | 402                 | 1 602.4               | 2 580.9        |
| 5*50        | 0.387                       | 197                   | 1                            | 2.00                     | 37.5                | 450                 | 2 289.2               | 3 365.0        |
| 5*95        | 0.193                       | 308                   | 1.2                          | 2.50                     | 49.4                | 593                 | 4 349.4               | 6 271.5        |
| 5*120       | 0.153                       | 359                   | 1.2                          | 2.70                     | 54.9                | 659                 | 5 494.0               | 7 851.9        |
| 5*150       | 0.124                       | 412                   | 1.4                          | 2.90                     | 60.2                | 723                 | 6 867.5               | 9 522.1        |
| 5*185       | 0.0991                      | 475                   | 1.6                          | 2.90                     | 67.0                | 804                 | 8 469.9               | 11 853.5       |
| 7*2.5       | 7.41                        | 32                    | 0.7                          | 1.80                     | 16.3                | 195                 | 160.2                 | 420.6          |
| 9*1.5       | 12.1                        | 24                    | 0.7                          | 1.80                     | 17.9                | 214                 | 123.6                 | 439.1          |
| 2*10+1*6    | 1.83/3.08                   | 74                    | 0.7/0.7                      | 1.80                     | 17.6                | 211                 | 238.1                 | 553.1          |
| 3*4+1*2.5   | 4.61/7.41                   | 42                    | 0.7/0.7                      | 1.80                     | 15.2                | 182                 | 132.8                 | 375.1          |
| 3*6+1*4     | 3.08/4.61                   | 53                    | 0.7/0.7                      | 1.80                     | 16.8                | 202                 | 201.4                 | 495.3          |
| 3*10+1*6    | 1.83/3.08                   | 74                    | 0.7/0.7                      | 1.80                     | 19.3                | 231                 | 329.6                 | 682.6          |
| 3*16+1*10   | 1.15/1.83                   | 98                    | 0.7/0.7                      | 1.80                     | 22.4                | 269                 | 531.1                 | 999.5          |
| 3*25+1*16   | 0.727/1.15                  | 162                   | 0.9/0.7                      | 1.80                     | 26.5                | 318                 | 833.3                 | 1 456.3        |
| 3*35+1*16   | 0.524/1.15                  | 162                   | 0.9/0.7                      | 1.80                     | 27.8                | 334                 | 1 108.0               | 1 685.3        |
| 3*35+1*25   | 0.524/0.727                 | 197                   | 0.9/0.9                      | 1.80                     | 29.8                | 358                 | 1 190.4               | 1 952.6        |
| 3*50+1*16   | 0.387/1.15                  | 197                   | 1.0/0.7                      | 2.00                     | 31.8                | 382                 | 1 520.0               | 2 204.9        |
| 3*50+1*25   | 0.387/0.727                 | 197                   | 1.0/0.9                      | 2.00                     | 32.7                | 393                 | 1 602.4               | 2 386.8        |
| 3*70+1*35   | 0.268/0.524                 | 250                   | 1.0/0.9                      | 2.10                     | 37.4                | 449                 | 2 243.4               | 3 250.6        |
| 3*95+1*50   | 0.193/0.387                 | 308                   | 1.20/1                       | 2.30                     | 42.1                | 505                 | 3 067.5               | 4 300.9        |
| 3*120+1*70  | 0.153/0.268                 | 359                   | 1.20/1                       | 2.50                     | 47.0                | 563                 | 3 937.4               | 5 482.8        |
| 3*150+1*70  | 0.124/0.268                 | 412                   | 1.40/1                       | 2.60                     | 51.7                | 620                 | 4 761.5               | 6 515.8        |
| 3*185+1*95  | 0.0991/0.193                | 475                   | 1.6/1.2                      | 2.80                     | 58.2                | 699                 | 5 951.9               | 8 298.3        |
| 3*240+1*120 | 0.0754/0.153                | 564                   | 1.7/1.2                      | 2.90                     | 64.7                | 777                 | 7 691.6               | 10 537.0       |
| 4*4+1*2.5   | 4.61/7.41                   | 42                    | 0.7/0.7                      | 1.80                     | 16.4                | 197                 | 169.4                 | 437.7          |
| 4*6+1*4     | 3.08/4.61                   | 53                    | 0.7/0.7                      | 1.80                     | 18.2                | 218                 | 256.4                 | 581.6          |
| 4*10+1*6    | 1.83/3.08                   | 74                    | 0.7/0.7                      | 1.80                     | 21.6                | 259                 | 421.2                 | 852.1          |
| 4*16+1*10   | 1.15/1.83                   | 98                    | 0.7/0.7                      | 1.80                     | 24.4                | 293                 | 677.6                 | 1 197.2        |
| 4*25+1*16   | 0.727/1.15                  | 133                   | 0.9/0.7                      | 1.80                     | 29.2                | 350                 | 1 062.2               | 1 773.7        |
| 4*35+1*16   | 0.524/1.15                  | 162                   | 0.9/0.7                      | 2.00                     | 33.5                | 402                 | 1 428.4               | 2 335.1        |
| 4*50+1*25   | 0.387/0.727                 | 197                   | 1.0/0.9                      | 2.10                     | 37.3                | 448                 | 2 060.3               | 3 057.9        |
| 4*70+1*35   | 0.268/0.524                 | 250                   | 1.0/0.9                      | 2.30                     | 43.4                | 521                 | 2 884.4               | 4 251.9        |
| 4*95+1*50   | 0.193/0.387                 | 308                   | 1.20/1                       | 2.50                     | 48.8                | 586                 | 3 937.4               | 5 619.0        |
| 4*120+1*70  | 0.153/0.268                 | 359                   | 1.20/1                       | 2.60                     | 54.3                | 652                 | 5 036.2               | 7 131.2        |
| 4*150+1*70  | 0.124/0.268                 | 412                   | 1.40/1                       | 2.80                     | 60.4                | 725                 | 6 135.0               | 8 624.5        |
| 4*185+1*95  | 0.0991/0.193                | 475                   | 1.6/1.2                      | 2.90                     | 67.0                | 804                 | 7 645.8               | 10 757.8       |
| 4*240+1*120 | 0.0754/0.153                | 564                   | 1.7/1.2                      | 2.90                     | 74.0                | 888                 | 9 889.2               | 13 552.4       |



Uninsulated

Self-supporting

Power Security

Power

Control

## POWER

NYIFY

STANDARD

IEC 60227

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

## 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



450-750  
/50 Hz



-50°C



+50°C



+60°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<sup>2</sup> inclusive are produced with PPV-1 and PPV-3 with 3,4 class flexibility, according to the standard 22483-77. Number of cores in the conductor 2,3

## THE CONSTRUCTION LENGTH 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.



## NYIFY

| Part Name | Conductor resistance [ $\Omega$ /km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Outer diameter [mm] | Bending radius [mm] | Copper Weight [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         |



Uninsulated

Self-supporting

Mounting

Power

Control

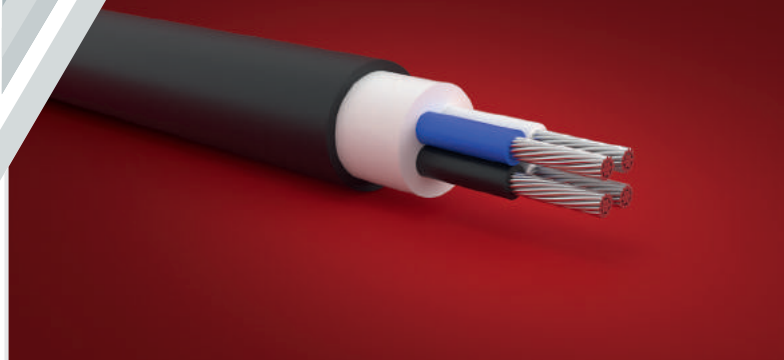
## POWER

NAYY

STANDARD

IEC 60502-1

**Aluminium Power cable, with PVC insulation and 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



4KV



0.6/1KV



-30°C



+70°C



+70°C



Bending radius not less than 12xD of cable



- 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 +70°C

## CONSTRUCTION

The copper cores with section 1,5-6mm<sup>2</sup> inclusive are produced of single wire of 1 class flexibility, 10-240mm<sup>2</sup> inclusive with twisted multi-core wires of 2 class flexibility, according to standard IEC 60502-1. Number of cores in the cable 1,2,3,4,5

## THE CONSTRUCTION LENGTH OF THE CABLES

2,5-16mm<sup>2</sup>-450m;  
25-70mm<sup>2</sup>-300m;  
95-240mm<sup>2</sup>-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 40 years

## WARRANTY PERIOD

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

# NAYY IEC 60502-1

| 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 Weight [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          |

Uninsulated

Self-supporting

Mounting

Power

Control



## NAYY IEC 60502-1

| Part Name           | Conductor resistance [ $\Omega$ /km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Thickness of sheath [mm] | Outer diameter [mm] | Bending radius [mm] | Aluminum Weight [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





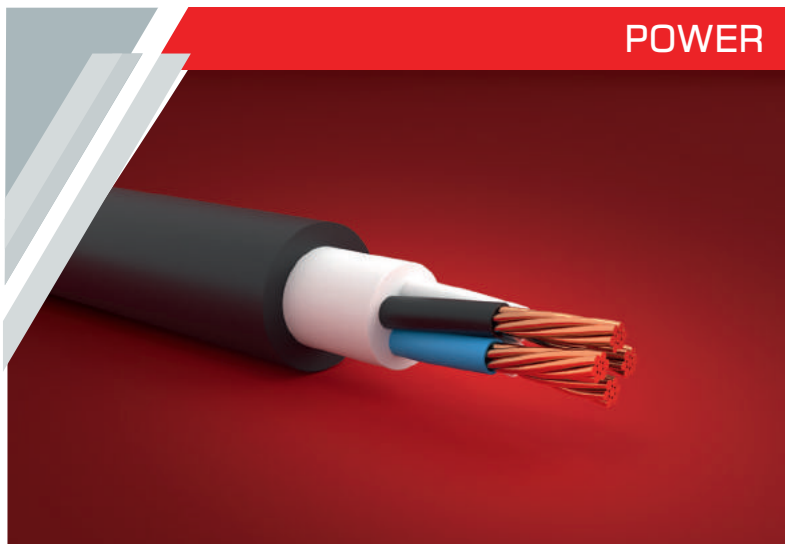
## POWER

NYY

STANDARD

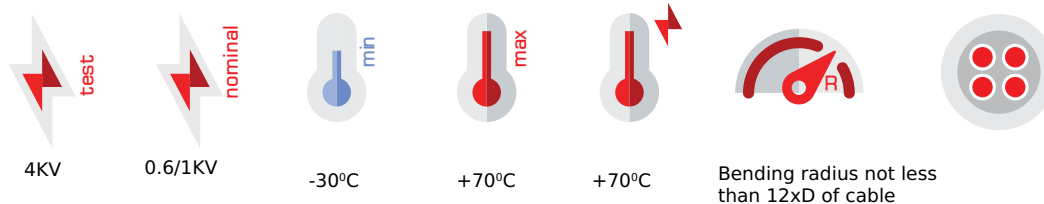
IEC 60502-1

**Copper Power cable, with PVC insulation and 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



- 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 2,5-50mm<sup>2</sup> inclusive are produced with single wire of 1 class flexibility, 70-240mm<sup>2</sup> inclusive with twisted multi-core wires of 2 class flexibility, according to standard IEC 60502-1. Number of cores in the cable 1,2,3,4,5

## THE CONSTRUCTION LENGTH OF THE CABLES

- 2,5-16mm<sup>2</sup>-450m;
- 25-70mm<sup>2</sup>-300m;
- 95-240mm<sup>2</sup>-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

# NY Y IEC 60502-1

| 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] |
|------------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 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         |

Uninsulated

Self-supporting

Mounting

Power

Control

# NYI IEC 60502-1

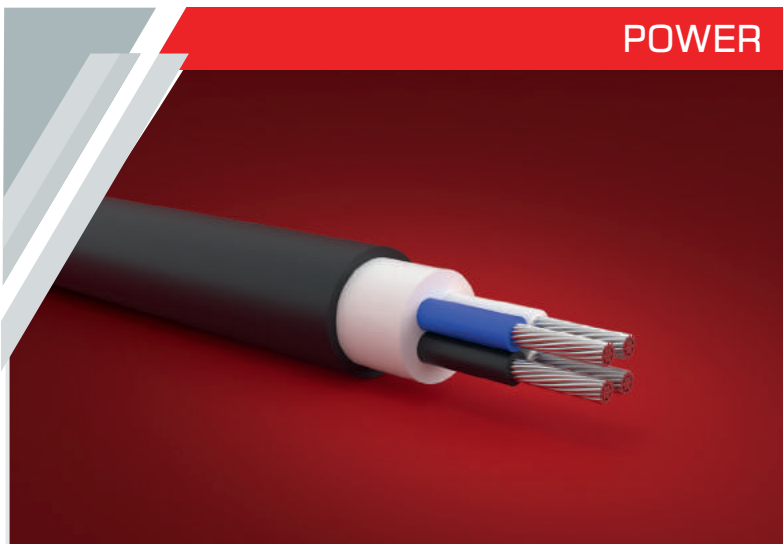
| Part Name               | Conductor resistance [Ω/km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Thickness of sheath [mm] | Outer diameter [mm] | Bending radius [mm] | Copper Weight [kg/km] | Weight [kg/km] |
|-------------------------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 5 x 70 rm               | 0,268                       | 165                   | 1,4                          | 2,1                      | 42,9                | 299                 | 3204,85               | 4776,6         |
| 5 x 95 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       |

**i** re - Single-core  
rm - Multi-core





## POWER



NA2XY

STANDARD

IEC 60502

**Power cable with aluminum core, with cross-linked 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



+90°C



Bending radius not less  
than 12xD of cable



- 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 2,5-16mm<sup>2</sup> inclusive are produced of single wire of 1 class flexibility, 25-240mm<sup>2</sup> inclusive with twisted multi-core wires of 2 class flexibility, according to standard IEC 60502. 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 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 Weight [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        |

Uninsulated

Self-supporting

Mounting

Power

Control

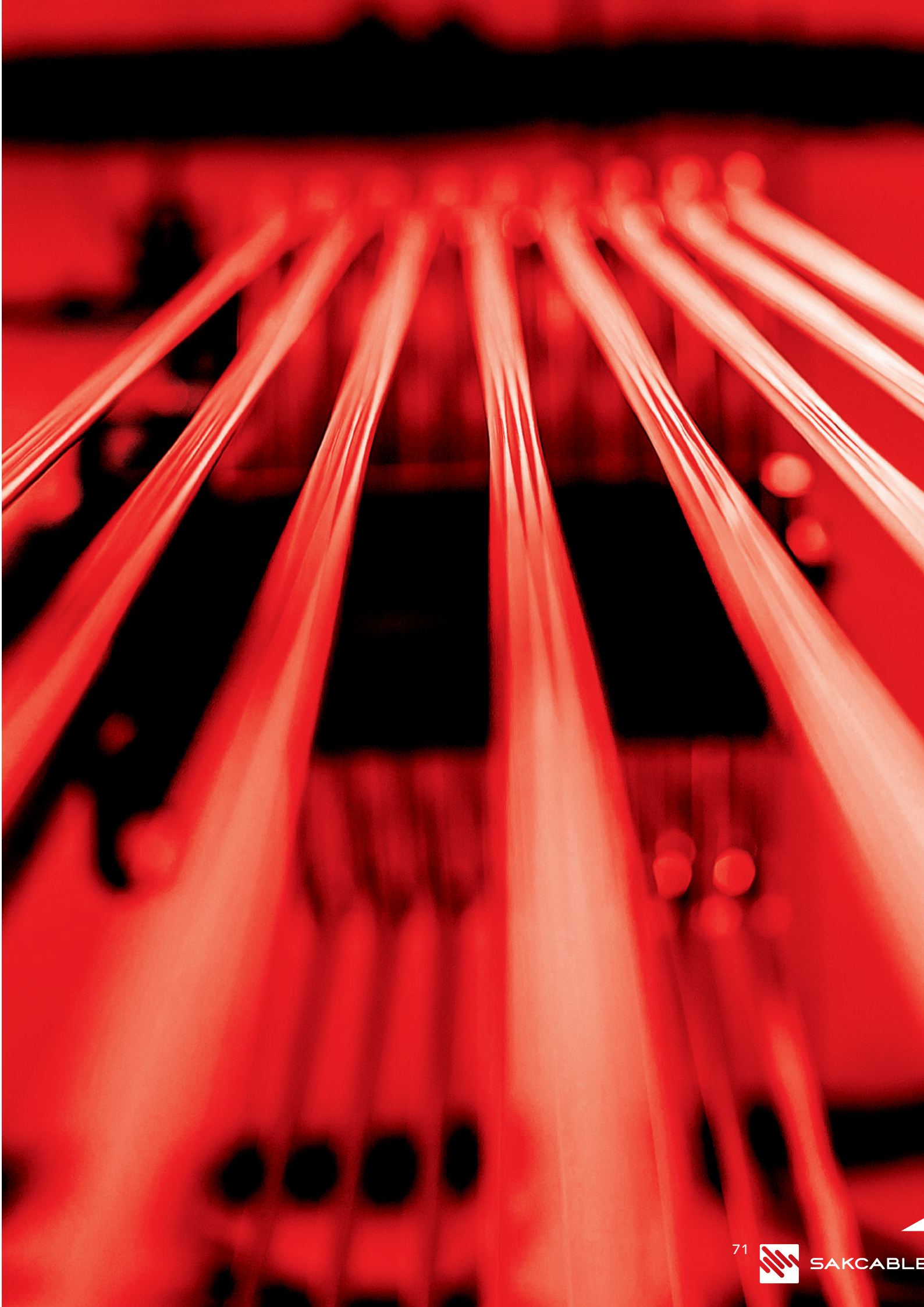
## NA2XY DIN VDE 0276 IEC 60502

| 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 Weight [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





## POWER

N2XH

STANDARD

HD 604 S1

**Copper Power cable, with XLPE insulation and Halogen free flame retardant sheath**

## 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



4KV



0.6/1KV



-30°C



+70°C



+90°C



Bending radius not less than 12xD of cable



- 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 2,5-50mm<sup>2</sup> inclusive are produced with one wire of 1 class flexibility, 70-240mm<sup>2</sup> inclusive with twisted multi-core wires 2 class flexibility, according to standard HD 604 S1. 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<sup>2</sup> - 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 HD 604 S1

| 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] |
|--------------------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 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       |

**i** re - Single-core  
rm - Multi-core

Uninsulated

Self-supporting

Mounting

Power

Control



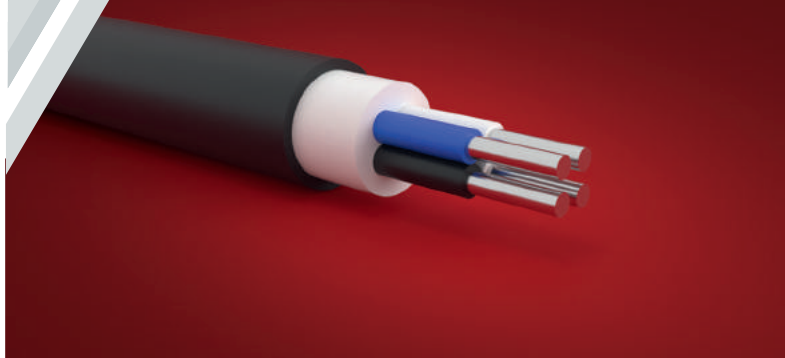
## POWER

NA2XH

STANDARD

HD 604 S1

**Aluminium r Power cable, with XLPE insulation and Halogen free flame retardand sheat**



## 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



4KV



0.6/1KV



-30°C



+70°C



+90°C



Bending radius not less than 12xD of cable



- 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 2,5-50mm<sup>2</sup> inclusive are produced with one wire of 1 class flexibility, 70-240mm<sup>2</sup> inclusive with twisted multi-core wires 2 class flexibility, according to standard HD 604 S1. 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<sup>2</sup> - 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

## WARRANTY PERIOD



## N2XH HD 604 S1

| 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] |
|--------------------|-----------------------------|-----------------------|------------------------------|--------------------------|---------------------|---------------------|-----------------------|----------------|
| 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

Uninsulated

Self-supporting

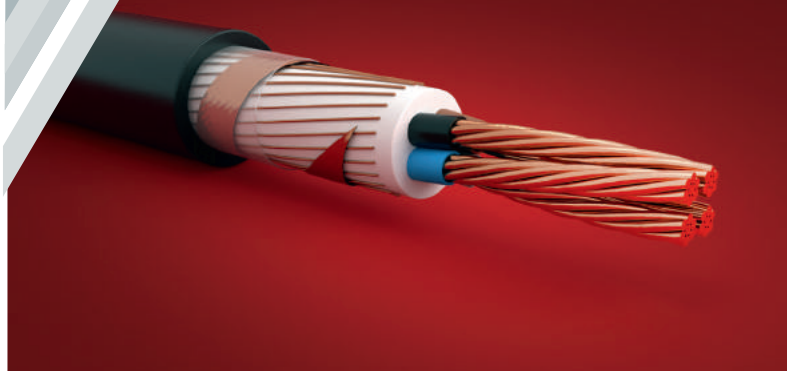
Mounting

Power

Control



## POWER



NYCY

STANDARD

IEC 60502-1

**PVC Power cable, with concentric conductor**

## APPLICATION

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



4kV



0.6/1kV



-30°C



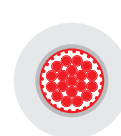
+70°C



+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 1 or 2 class flexibility according to the standard IEC 60502-1. 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: 1,5-10,0mm<sup>2</sup>

Number of conductor cores: 1,5-2,5mm<sup>2</sup> 4-5-7-10-12-14-19-24.

4-6mm<sup>2</sup> 4-5-7

10mm<sup>2</sup> 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

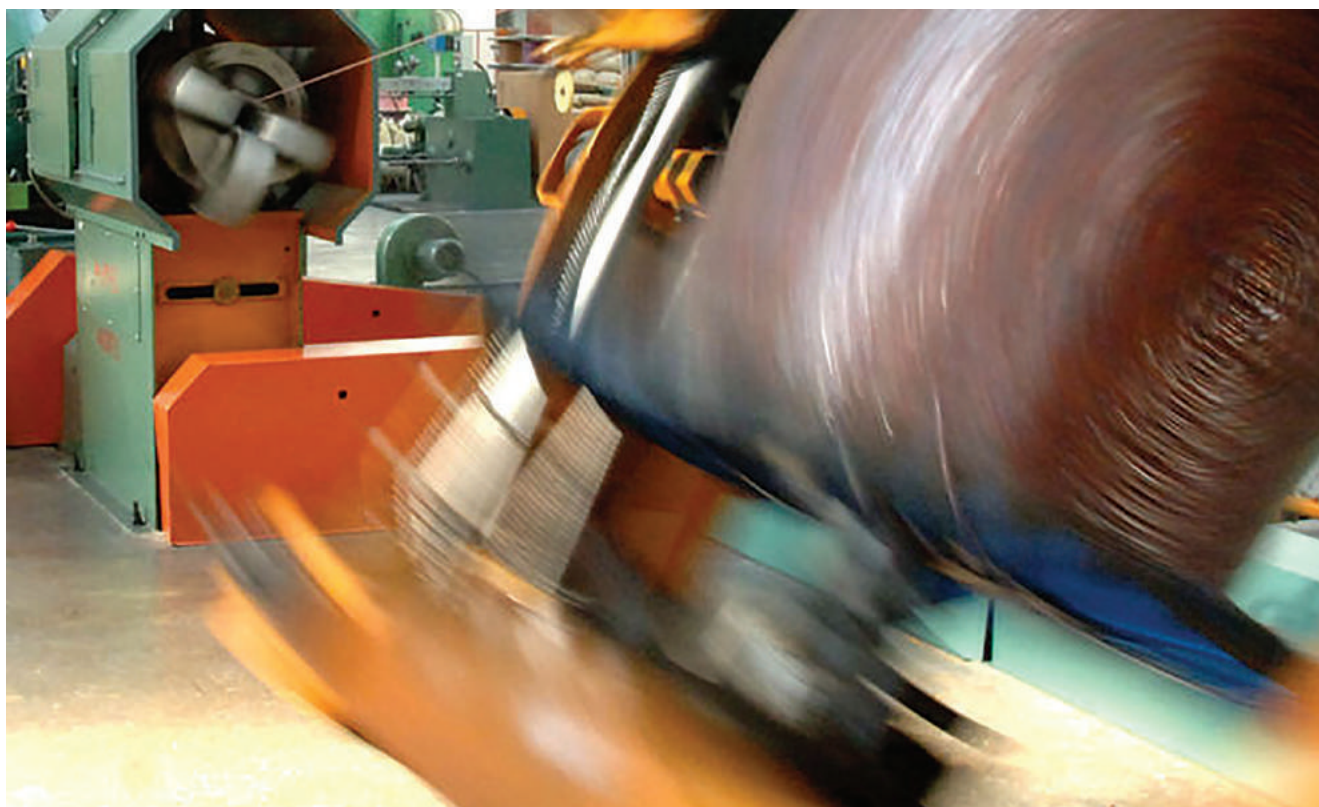
## WARRANTY PERIOD

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

## NYCY IEC 60502-1

| Part Name      | Conductor resistance [ $\Omega$ /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        |

**i** re - Single-core  
rm - Multi-core



Uninsulated

Self-supporting

Mounting

Power

Control

## POWER



H01N2-D

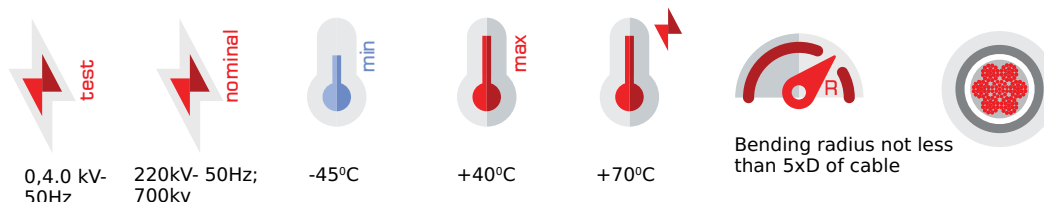
STANDARD

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



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

## CONSTRUCTION

Conductor cores with section 16-70mm<sup>2</sup> inclusive are produced with multiple twisted wire (120-396) of 5 class flexibility, according to standard DIN VDE 0282-6

## 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)



## H01N2-D

| Part Name | Conductor resistance [Ω/km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Outer diameter [mm] | Bending radius [mm] | Copper Weight [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            |

**i** re - Single-core  
rm - Multi-core



Uninsulated

Self-supporting

Mounting

Power

Control

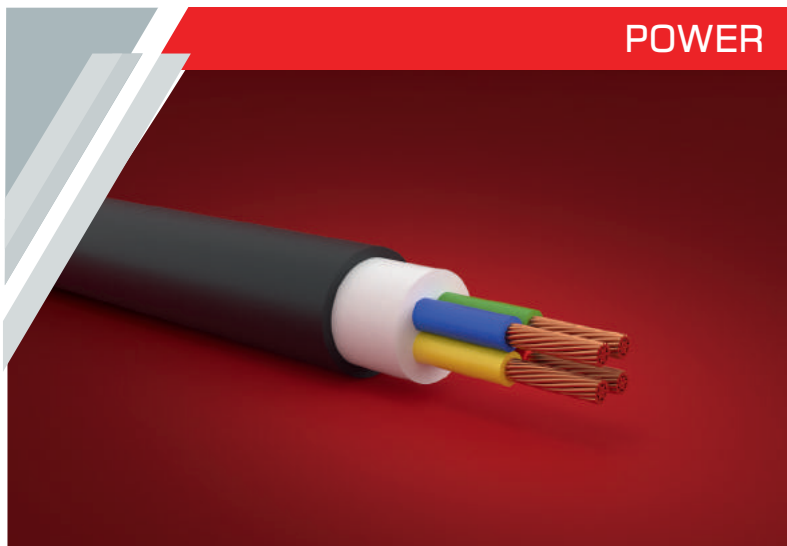
## POWER

H07RN-F

STANDARD

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



+70°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 1,5-2,5mm<sup>2</sup> inclusive are produced with multiple twisted wire (7-19) of 4 or 5 class flexibility, 4-70mm<sup>2</sup> inclusive with twisted multi-core (20-140) wire of 3 and 4 class flexibility, according to standard DIN VDE 0282-4. Number of cores in the cable 1, 2,3,4,5

## THE CONSTRUCTION LENGTH OF THE CABLES

- 2.5-16 mm<sup>2</sup> - 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

# H07RN-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 Weight [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        |

**i** re - Single-core  
rm - Multi-core

Uninsulated

Self-supporting

Mounting

Power

Control

## POWER

NAYY

STANDARD IEC 60502-1

**Power cable with aluminum core, polyvinylchloride insulation and polyvinylchloride sheath**



- **NAYY** Fire Retardant in single 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



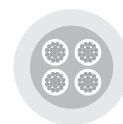
+50°C



+70°C



Bending radius not less  
than 12xD 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 2,5-50mm<sup>2</sup> inclusive are made of single wire with 1<sup>st</sup> class flexibility, 70-240mm<sup>2</sup> inclusive with twisted multi-core wires with 2 class flexibility, according to standard IEC 60502-1. 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 16mm<sup>2</sup> - 450m;  
25-up to 70mm<sup>2</sup> - 300m;  
95-up to 240mm<sup>2</sup> - 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

not less than 30 years

## WARRANTY PERIOD

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



| 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 Weight [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         |

Uninsulated

Self-supporting

Mounting

Power

Control

## 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 Weight [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        |

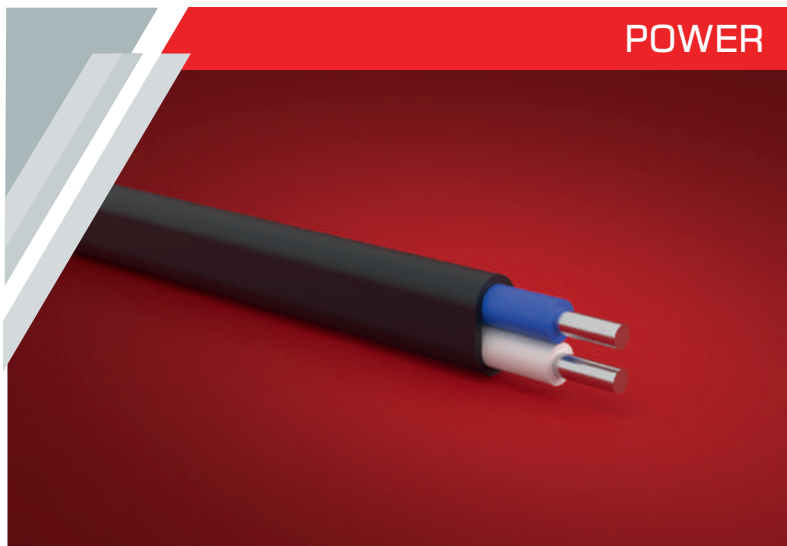


re - Single-core

rm - Multi-core



## POWER



NAYIFY

STANDARD DIN VDE 0250.201

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



NAYIFY - Fire Retardant in single 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



+70°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 2,5-25mm<sup>2</sup> inclusive are produced of single wire of 1 class flexibility. 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.

2,5-16mm<sup>2</sup> - up to 450m<sup>2</sup>

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



## NAYIFY

| Part Name  | Conductor resistance [ $\Omega$ /km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Thickness of sheath [mm] | Outer diameter [mm] | Bending radius [mm] | Aluminum Weight [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         |

**i** re - Single-core  
rm - Multi-core



Uninsulated

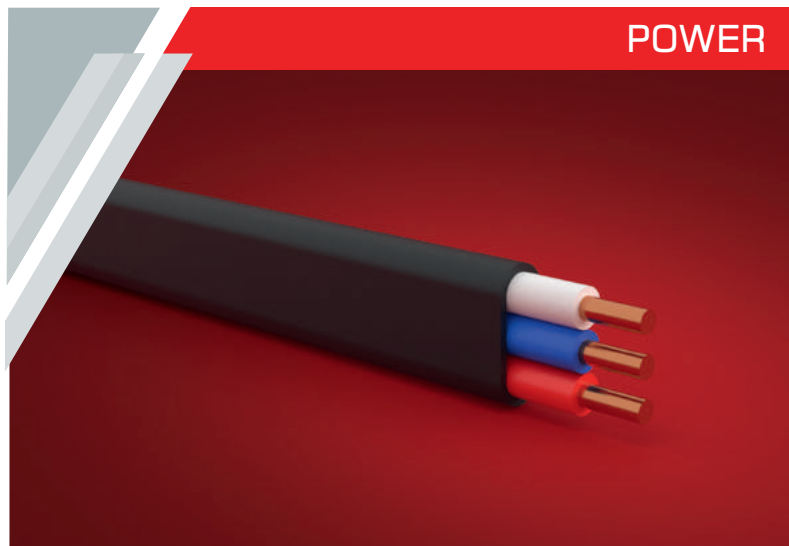
Self-supporting

Mounting

Power

Control

## POWER



NYIFY

STANDARD IEC 60227

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



NYIFY Fire Retardant in single 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



+70°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 2,5-25mm<sup>2</sup> inclusive are produced of single wire of 1 class flexibility, according to standard IEC 60227. 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

## NYIFY

| Part Name         | Conductor resistance [ $\Omega$ /km] | Ampacity (in air) [A] | Thickness of insulation [mm] | Thickness of sheath [mm] | Outer diameter [mm] | Bending radius [mm] | Aluminum Weight [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         |

**i** re - Single-core  
rm - Multi-core



Uninsulated

Self-supporting

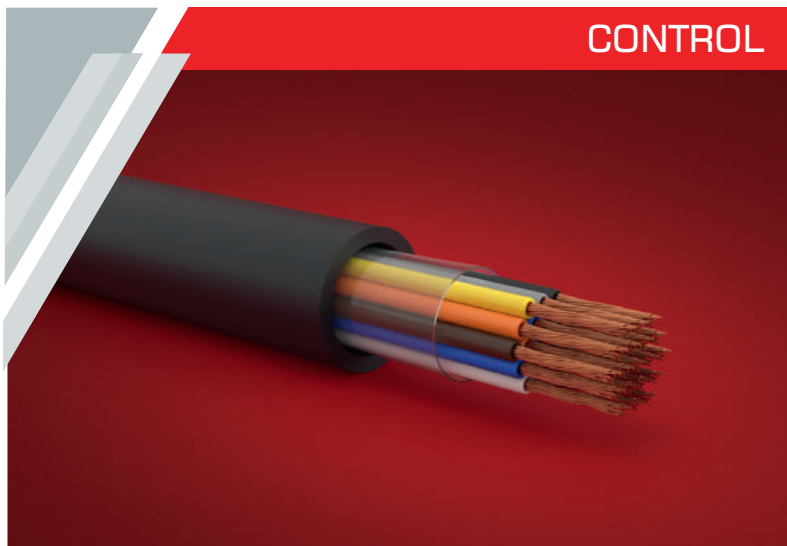
Mounting

Power

Control



## CONTROL



YSLY

STANDARD

DIN VDE 0281-13

**copper control cable with polyvinylchloride insulation and sheath**



NYM Fire Retardant in single 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 current 1000V. Used for laying in buildings, channels, tunnels if there is no danger of mechanical influence



2,5kV  
50Hz



0, 660 kV-  
100Hz



-50°C



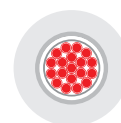
+50°C



+70°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 5 class flexibility according to the standard DIN VDE 0281-13. The section of conductor core is 0.75, 1.0, 1.5, 2.5, 4, 6mm<sup>2</sup>.

Number of cores in the cable: 0.75-2.5mm<sup>2</sup>-4, 5, 7, 10, 14, 19, 27, 37

4 and 6mm<sup>2</sup>-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.



# YSLY

| Part Name | Conductor resistance [ $\Omega$ /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        |



Uninsulated

Self-supporting

Mounting

Power

Control

## SOLAR



H1Z2Z2-K

## STANDARD

EN 50618,  
EN 50288-3-7,  
EN 60068-2-78,  
EN 50395

**Standard solar cable, used for the interconnection within photovoltaic systems such as solar panel arrays.**

## APPLICATION

Harmonised European standard solar cable, used for the interconnection within photovoltaic systems such as solar panel arrays. It is used for installations where fire, smoke emissions and toxic fumes create potential risk to life and equipment and is suitable for direct burial.



6,5 kV  
50Hz



1000V  
50Hz



-40°C



+120°C



+120°C



Bending radius not  
less than 5xD 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 +90°C.

## CONSTRUCTION

Class 5 flexible tinned copper conductor with halogen-free cross-linked Insulation and halogen-free cross-linked, flame retardant sheath

## THE CONSTRUCTION LENGTH OF THE CABLES

not less than 100m

## 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

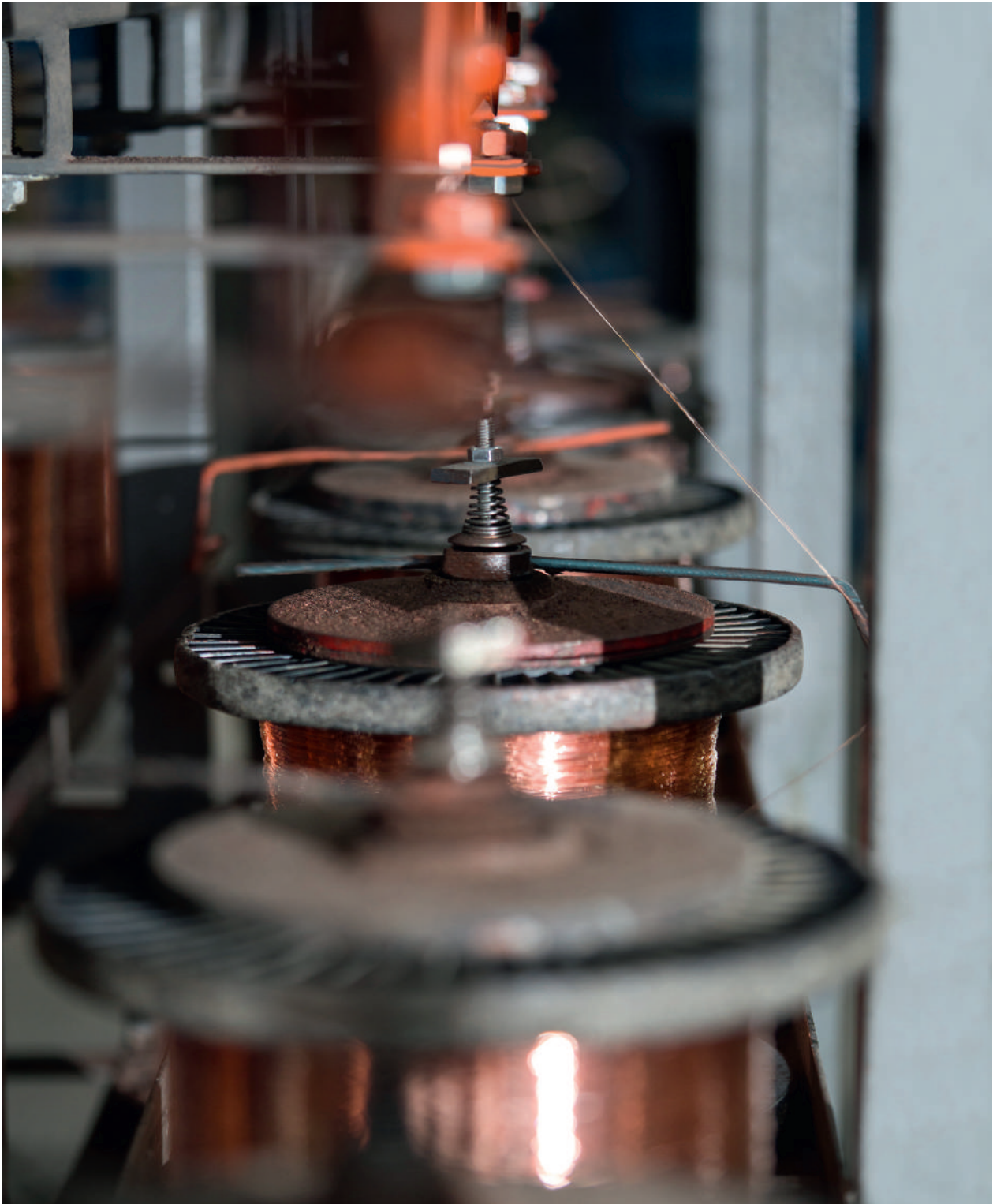
## SERVICE LIFETIME

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.

| NO. OF CORES | Nominal Cross Sectional Area mm <sup>2</sup> | Maximum Dc Resistance of Conductor At 20°C ohms/km | Current Carrying Capacity Amps Single Cable In Air | Nominal Overall Diameter mm | Nominal weight kg/km |
|--------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------------|----------------------|
| 1            | 4                                            | 5.09                                               | 55                                                 | 5.6                         | 62                   |
| 1            | 6                                            | 3.39                                               | 70                                                 | 6.1                         | 82                   |
| 1            | 10                                           | 1.95                                               | 98                                                 | 7.1                         | 125                  |



Uninsulated

Self-supporting

Mounting

Power

Control

Solar



საქკაბელი  
SAKCABLE

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16 Microdistrict , Business center , Rustavi, Georgia;  
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საქართველო





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