



## AA sXS n-20 1x70 TY Y 27.3-00214534-072:2013

Single-core self-supporting high-voltage flame-retardant wires with polymer compound insulation

Used for laying:

- *aerial electric power lines for the rated voltage from 10 kV till 35 kV*
- *in air, types II and III according to ГOCT 15150-69, including on sea coasts, salt lakes, in industrial areas and areas of saline sands*

It is possible to manufacture the wire with longitudinal core sealing by water-blocking materials

Fire safety code in accordance with ДСТУ 4809:2007: ПБ100000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*

### TECHNICAL SPECIFICATIONS

|  |                 |                                       |
|--|-----------------|---------------------------------------|
| Rated voltage  | kV              | 20                                    |
| Number and rated area of phase conductors                                    | mm <sup>2</sup> | 1 x 70                                |
| Phase insulation thickness   | mm              | 2.3                                   |
| Current ratings *  |                 |                                       |
| • <i>Continuous</i>  | A               | 310                                   |
| • <i>at short circuit (not more than 1 s)</i>                                | kA              | 6                                     |
| Maximum permissible conductor temperature                                    |                 |                                       |
| • <i>Continuous</i>  | °C              | +90                                   |
| • <i>at short circuit (not more than 5 s)</i>                                | °C              | +250                                  |
| Operating temperature range  | °C              | -60 ... +50                           |
| Permissible temperature of laying (installation), no less than               | °C              | -20                                   |
| Minimum bending radius by laying   | mm              | 149                                   |
| Rated outer diameter of the cable (for reference) **                         | mm              | 14.9                                  |
| Weight (approximate)   | kg/km           | 280                                   |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 5160 • 1.7<br># 18: 5900 • 2.1 |

Notes:

When ordering it is necessary to agree the factory length of the product with the manufacturer

\* Long permissible current loads are calculated for the following conditions: ambient temperature plus 25 °C, wind speed 0.6 m/s, the intensity of solar radiation 1000 W/m<sup>2</sup>

\*\* The external diameter may differ from the rated up to ± 10 %



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### **CONSTRUCTION**

#### **1. Multiwire aluminium-alloy compacted conductor**

*Note: It is possible to manufacture the wire with longitudinal core sealing by water-blocking materials*

#### **2. Flame-retardant polymer compound insulation**