



## СИП-3-20 1x185 ДСТУ 4743:2007, ТУ У 27.3-00214534-066:2013

Single-core self-supporting high-voltage wires with light-stabilized cross-linked polyethylene 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 ГОСТ 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

### TECHNICAL SPECIFICATIONS

|  |                 |   |
|--|-----------------|---|
| Rated voltage  | kV              | 20  |
| Number and rated area of phase conductors                                    | mm <sup>2</sup> | 1 x 185   |
| Phase insulation thickness   | mm              | 2.3   |
| Current ratings *  |                 |   |
| • <i>Continuous</i>  | A               | 560   |
| • <i>at short circuit (not more than 1 s)</i>                                | kA              | 15.9  |
| 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              | 206   |
| Rated outer diameter of the cable (for reference) **                         | mm              | 20.6  |
| Weight (approximate)   | kg/km           | 630   |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 2530 • 1.9<br># 18: 2890 • 2.3<br># 20: 4630 • 3.6 |

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

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#### 2. Light-stabilized cross-linked polyethylene insulation