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# 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 | $mm^2$ | 1 x 185 |
| Phase insulation thikness | mm | 2.3 |
| Current ratings * | | |
| • *Continious* | A | 560 |
| • *at short circuit (not more than 1 s)* | kA | 15.9 |
| Maximum permissible conductor temperature | | |
| • *Continious* | °C | +90 |
| • *at short circuit (not more than 5 s)* | °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 neccesary 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/m2*

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

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## CONSTRUCTION

*1. Multiwire aluminium-alloy compacted conductor*
*2. Light-stabilized cross-linked polyethylene insulation*

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