



## 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 # 18: 2890 • 2.3 # 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**

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

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