



## СИПН-3-20 1x150 ДСТУ 4743:2007, ТУ У 27.3-00214534-066:2013

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 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

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 150
Phase insulation thickness	mm	2.3
Current ratings *		
• <i>Continuous</i>	A	485
• <i>at short circuit (not more than 1 s)</i>	kA	12.9
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	189
Rated outer diameter of the cable (for reference) **	mm	18.9
Weight (approximate)	kg/km	520
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16a: 3120 • 1.9 # 18: 3570 • 2.3 # 20: 5710 • 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. Flame-retardant polymer compound insulation**