



## СИПН-1 3x50+1x70+1x16 ДСТУ 4743:2007, ТУ У 27.3-00214534-066:2013

Self-supporting flame-retardant wires with polymer compound insulation, with neutral carrier non-insulated conductor

Used for laying:

- *trunks of aerial electric power lines and line branches for the rated voltage of 0.6/1 kV*
- *in air, types I and II according to ГОСТ 15150-69*

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

Fire safety code in accordance with ДСТУ 4809:2007: ПБ1000000000

Products of this mark meet the requirements:

- *single wire cable flame retardance*

### TECHNICAL SPECIFICATIONS

Rated voltage	kV	0.6 / 1
Number and rated area of phase conductors	mm <sup>2</sup>	3 x 50
Number and rated area of additional conductors for light circuits	mm <sup>2</sup>	1 x 16
Carrier neutral conductor rated area	mm <sup>2</sup>	70
Phase insulation thickness	mm	1.5
Current ratings *		
• <i>Continuous</i>	A	195
• <i>at short circuit (not more than 1 s)</i>	kA	4.6
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	323
Rated outer diameter of the cable (for reference) **	mm	32.3
Weight (approximate)	kg/km	770
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16a: 990 • 1.0 # 18: 1130 • 1.3 # 20: 1810 • 2.0

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. Aluminium multiwire compacted conductor

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

#### 2. Multiwire aluminium-alloy compacted supporting conductor

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

#### 3. Multiwire compacted aluminium assisting conductor for light circuits

#### 4. Flame-retardant polymer compound insulation

*Note: Wire lay-up is not illustrated.*

