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# СИП-1 3x70+1x95+1x16 ДСТУ 4743:2007, ТУ У 27.3-00214534-066:2013

Self-supporting wires with light-stabilized cross-linked polyethylene 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 ΓΟCT 15150-69

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

#### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	0.6 / 1
Number and rated area of phase conductors	mm²	3 x 70
Number and rated area of additional conductors for light	mm²	1 x 16
circuits		
Carrier neutral conductor rated area	mm²	95
Phase insulation thikness	mm	1.5
Current ratings *		
Continious	Α	240
• at short circuit (not more than 1 s)	kA	6.5
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	372
Rated outer diameter of the cable (for reference) **	mm	37.2
Weight (approximate)	kg/km	1050
Rated factory cable length and gross weight of the delivery	m, t	# 16a: 700 · 1.0
on the drums ***		# 18: 800 • 1.3
		# 20: 1280 • 2.0

#### Notes:

When ordering it is neccesary to agree the factory length of the product with the manufacturer

<sup>\*</sup> 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

<sup>\*\*</sup> The external diameter may differ from the rated up to  $\pm$  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. Light-stabilized cross-linked polyethylene insulation

Note: Wire lay-up is not illustrated.