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СІП-3-20 1x120
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 120
Phase insulation thikness	mm	2.3
Current ratings *		
• *Continious*	A	430
• *at short circuit (not more than 1 s)*	kA	10.3
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	183
Rated outer diameter of the cable (for reference) **	mm	18.3
Weight (approximate)	kg/km	440
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16a: 3120 • 1.6 # 18: 3570 • 2.0 # 20: 5710 • 3.2

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/m^2*

*** 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

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