



СИП-1 3x50+1x50+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 ГОСТ 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 | mm ² | 3 x 50 |
| Number and rated area of additional conductors for light circuits | mm ² | 1 x 16 |
| Carrier neutral conductor rated area | mm ² | 50 |
| Phase insulation thickness | mm | 1.5 |
| Current ratings * | | |
| • Continuous | A | 195 |
| • at short circuit (not more than 1 s) | kA | 4.6 |
| Maximum permissible conductor temperature | | |
| • Continuous | °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 | 308 |
| Rated outer diameter of the cable (for reference) ** | mm | 30.8 |
| Weight (approximate) | kg/km | 710 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 16a: 1120 • 1.1 # 18: 1290 • 1.4 # 20: 2060 • 2.1 |

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/m²

** The external diameter may differ from the rated up to ± 10 %



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CONSTRUCTION

1. Aluminium multiwire compacted conductor

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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.

