

## СИП-1 3x50+1x50 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

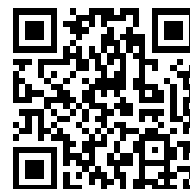
|                                                                              |                 |                   |
|------------------------------------------------------------------------------|-----------------|-------------------|
| Rated voltage                                                                | kV              | 0.6 / 1           |
| Number and rated area of phase conductors                                    | mm <sup>2</sup> | 3 x 50            |
| Carrier neutral conductor rated area                                         | mm <sup>2</sup> | 50                |
| 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              | 308               |
| Rated outer diameter of the cable (for reference) **                         | mm              | 30.8              |
| Weight (approximate)                                                         | kg/km           | 650               |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 1120 • 1.0 |
|                                                                              |                 | # 18: 1290 • 1.3  |
|                                                                              |                 | # 20: 2060 • 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. Light-stabilized cross-linked polyethylene insulation

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

