



## СИП-3-35 1x95 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              | 35                                                        |
| Number and rated area of phase conductors                                    | mm <sup>2</sup> | 1 x 95                                                    |
| Phase insulation thickness                                                   | mm              | 3.5                                                       |
| Current ratings *                                                            |                 |                                                           |
| • <i>Continuous</i>                                                          | A               | 400                                                       |
| • <i>at short circuit (not more than 1 s)</i>                                | kA              | 8.2                                                       |
| 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              | 186                                                       |
| Rated outer diameter of the cable (for reference) **                         | mm              | 18.6                                                      |
| Weight (approximate)                                                         | kg/km           | 420                                                       |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t            | # 16a: 3120 • 1.6<br># 18: 3570 • 2.0<br># 20: 5710 • 3.0 |

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. 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