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АПвЭоВнг(к)-20 3х185 ТУ У 31.3-00214534-017-2003



Three-core power cables with aluminium conductors, flame-retardant, with XLPE, collective screen and PVC compound outer sheath

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

• in premises, tunnels, ducts, mines, dry soil and outdoor under shelter

in bunches

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example:

 $A\Pi_B \Theta_{BHF}(\kappa)$ -20 3x185/70 (OM) TY Y 31.3-00214534-017-2003 In conjunction with the DTS system, the integrated fiber-optic module can act as a distributed cable line temperature sensor.

It is possible to manufacture cable with sealed conductors. Order entry example: $A\Pi B \Im O B H \Gamma (\kappa) - 20 3 \times 185/70 (\Gamma) TY Y 31.3 - 00214534 - 017 - 2003$

Fire safety code in accordance with ДСТУ 4809:2007: ПБ130000000 Products of this mark meet the requirements:

• single wire cable flame retardance

bunched cable flame retardance category B





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TECHNICAL SPECIFICATIONS

| Rated voltage | kV | 20 |
|---|-------|----------------------|
| Maximum voltage | kV | 24 |
| Number and rated area of conductors | mm² | 3 x 185 |
| Insulation thikness | mm | 5.5 |
| Minimum screen cross-section | mm² | 70 |
| Permissible short circuit current across the screen of | kA | 14.2 |
| minimum cross-section | | |
| Maximum permissible short-circuit current in core | kA | 17.5 |
| Permissible continious current rating * | | |
| • by aerial laying | А | 355 |
| by burial | А | 294 |
| Partial discharge factor for rated voltage, not more than | рС | 6 |
| Maximum permissible conductor temperature | | |
| Continious | °C | +90 |
| in emergency operation | °C | +130 |
| at short circuit | °C | +250 |
| Operating temperature range (in climate version NF) | °C | -50 +50 |
| Operating temperature range (in climate version T) | °C | -25 +65 |
| Minimum bending radius by laying | mm | 1184 |
| Rated outer diameter of the cable (for reference) ** | mm | 74 |
| Cable weight (approximate) | kg/km | 6830 |
| Rated factory cable length and gross weight of the delivery | m, t | # 22УД-60: 319 • 3.1 |
| on the drums *** | | # 25УД-90: 583 • 5.6 |
| Notes: | | |

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: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, load factor 1.0, thermal resistivity of soil 1.5 $\% \cdot m/W$, laying depth in the ground 0.8 m, shields are grounded at both ends of the line

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

*** Отклонение фактической массы брутто от указанного значения может составлять \pm 7 %



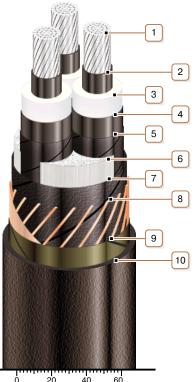


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20 40 60

CONSTRUCTION

- 1. Aluminium multiwire compacted conductor
- Notes: It is possible to manufacture cable with a single-wire conductor • It is possible to manufacture cable with sealed conductors.
- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape
- 6. Interstitial filler with polypropylene bundles
- 7. Lapping layer of semiconductive swellable tape
- 8. Copper screen
- 9. Lapping layer of glass tape
- 10. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated