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АПвЭКВнг-20 3х50 ТУ У 31.3-00214534-017-2003

Three-core power cables with aluminium conductors, flame-retardant, with XLPE, steel-wire armoured, with PVC compound outer sheath

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- · in places, where mechanical impacts on cable are possible, including tensile forces
- 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:

АПвЭКВнг-20 3х50/16 (ОМ) ТУ У 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:

АПвЭКВнг-20 3х50/16 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ120000000

Products of this mark meet the requirements:

- · single wire cable flame retardance
- · bunched cable flame retardance category A







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TECHNICAL SPECIFICATIONS

| Rated voltage | kV | 20 |
|---|-------|----------------------|
| Maximum voltage | kV | 24 |
| Number and rated area of conductors | mm² | 3 x 50 |
| Insulation thikness | mm | 5.5 |
| Minimum screen cross-section | mm² | 16 |
| Permissible short circuit current across the screen of | kA | 3.3 |
| minimum cross-section | | |
| Maximum permissible short-circuit current in core | kA | 4.7 |
| Permissible continious current rating * | | |
| by aerial laying | Α | 159 |
| • by burial | Α | 140 |
| Partial discharge factor for rated voltage, not more than | рC | 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 | 1040 |
| Rated outer diameter of the cable (for reference) ** | mm | 65 |
| Cable weight (approximate) | kg/km | 6240 |
| Rated factory cable length and gross weight of the delivery | m, t | # 22УД-60: 363 • 3.2 |
| on the drums *** | | # 25УД-90: 643 • 5.6 |
| Notas | | |

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: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, load factor 1.0, thermal resistivity of soil 1.5 °K • 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 $\pm\,7\,\%$



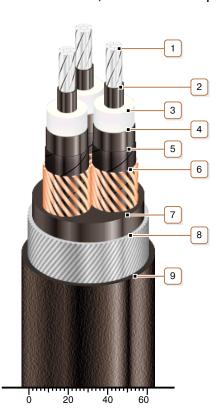




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CONSTRUCTION

- 1. Aluminium multiwire compacted conductor
 Note: 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. Copper screen
- 7. Extruded filling of PVC compound
- 8. Round galvanized steel-wire armour
- 9. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated