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АПвЭВнгд-30 3х95 ТУ У 31.3-00214534-017-2003

Power cables with aluminium conductors, flame-retardant, with XLPE and PVC compound outer sheath, with low smoke and gas emission

For the cable of this mark correspond the foreign-made analogues:

АПвВнг(B)-LS (RU) · АПвВнг(A)-LS (RU)

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
- at sites, where low smoke and gas emission are required (NPP, subway, large industrial facilities, high-rise buildings, etc.)

It is possible to manufacture cables with an integrated fiber-optic module.

Order entry example:

АПвЭВнгд-30 3x95/16 (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:

АПвЭВнгд-30 3х95/16 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ132121000

Products of this mark meet the requirements:

- · single wire cable flame retardance
- bunched cable flame retardance category B
- toxicity class Tk2 of the combustion products of nonmetallic elements (toxicity index from 40 up to 120 g/m³)
- class μ TK1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)
- class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)
- corrosive class $K\kappa 1$ of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10 μ S/mm)







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TECHNICAL SPECIFICATIONS

| Rated voltage | kV | 30 |
|---|-------|----------------------|
| Maximum voltage | kV | 36 |
| Number and rated area of conductors | mm² | 3 x 95 |
| Insulation thikness | mm | 8 |
| 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 | 8.9 |
| Permissible continious current rating * | | |
| by aerial laying | Α | 236 |
| • by burial | Α | 203 |
| 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 | 1216 |
| Rated outer diameter of the cable (for reference) ** | mm | 76 |
| Cable weight (approximate) | kg/km | 6180 |
| Rated factory cable length and gross weight of the delivery | m, t | # 22УД-60: 319 • 2.9 |
| on the drums *** | | # 25УД-90: 443 • 4.3 |
| Notae | | |

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
- 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. Copper screen
- 7. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated