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100802-350030000050

АПвЕБВнг-35 3х50
ТУ У 31.3-00214534-017-2003

Three-core power cables with aluminium conductors, flame-retardant, with XLPE, steel-tape 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, except 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:
АПвЕБВнг-35 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:
АПвЕБВнг-35 3х50/16 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ120000000
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	35
Maximum voltage	kV	42
Number and rated area of conductors	mm^2	3 x 50
Insulation thikness	mm	8.6
Minimum screen cross-section	mm^2	16
Permissible short circuit current across the screen of minimum cross-section	kA	3.3
Maximum permissible short-circuit current in core	kA	4.7
Permissible continious current rating *		
• *by aerial laying*	A	159
• *by burial*	A	140
Partial discharge factor for rated voltage, not more than	pC	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	1200
Rated outer diameter of the cable (for reference) **	mm	75
Cable weight (approximate)	kg/km	6210
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 22УД-60: 319 • 2.9 # 25УД-90: 443 • 4.3

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 °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 ± 10 %*

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

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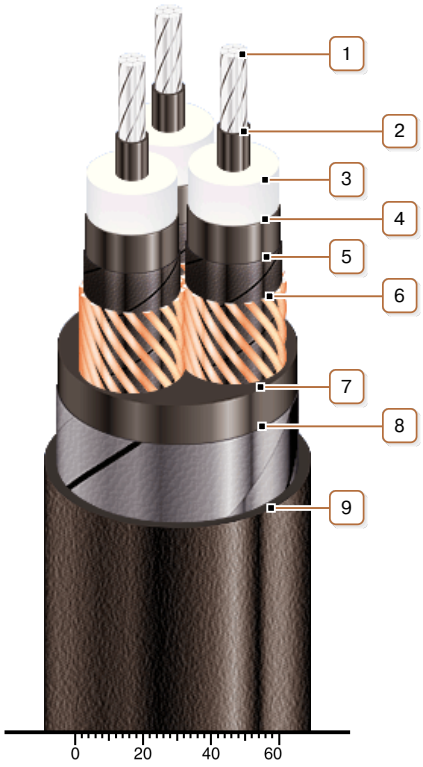

CONSTRUCTION

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. Double galvanized steel-tape armour
9. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated

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