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АПвЭВнг-45 1х95 ТУ У 31.3-00214534-060:2011

Power cables with aluminium conductor, flame-retardant, with XLPE and with PVC compound outer sheath

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

 $A\Pi B B H \Gamma(B) (RU) \cdot A\Pi B B H \Gamma(A) (RU)$

Technical cable requirements correspond to IEC 60840

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:

АПвЭВнг-45 1х95/95 (ОМ) ТУ У 31.3-00214534-060:2011

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 conductor.

Order entry example:

АПвЭВнг-45 1х95/95 (г) ТУ У 31.3-00214534-060:2011

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

ted voltage	kV	45
ximum voltage	kV	52
nductor rated area	mm²	95
nimum screen cross-section	mm²	35
rtial discharge factor for rated voltage, not more than	рС	6
rmissible short circuit current across the screen of	kA	3.3
nimum cross-section		
ximum permissible short-circuit current in core	kA	8.9
rmissible continious current rating by aerial laying *		
n trefoil formation with double-side screen earthing	Α	279
n trefoil formation with single-side screen earthing or	Α	281
oss screen earthing		
plane with double-side screen earthing	Α	322
plane with single-side screen earthing or cross screen	Α	334
rthing		
rmissible continious current rating by burial *		
n trefoil formation with double-side screen earthing	Α	240
n trefoil formation with single-side screen earthing or	Α	243
oss screen earthing		
plane with double-side screen earthing	Α	244
plane with single-side screen earthing or cross screen	Α	253
rthing		
ximum permissible conductor temperature		
Continious	° C	+90
n emergency operation	° C	+130
t short circuit	° C	+250
erating temperature range (in climate version NF)	° C	-50 +50
erating temperature range (in climate version T)	° C	-25 +65
nimum bending radius by laying	mm	704
ted outer diameter of the cable (for reference) **	mm	44
ble weight (approximate)	kg/km	2050
ted factory cable length and gross weight of the delivery	m, t	# 22УД-60: 882 • 2.7
the drums ***		
, , , , , , , , , , , , , , , , , , , ,	m, t	# 22УД-

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 1.0 °K • m/W, laying depth in the ground 1.5 m, while laying in flat formation the distance between cables in clear is equal to the cable diameter, while laying in trefoil formation cables are laid side by side

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

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



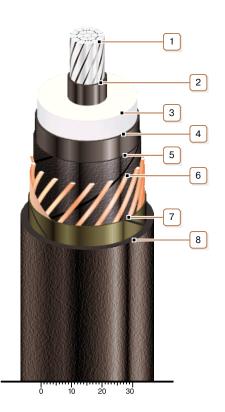




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CONSTRUCTION

- 1. Aluminium multiwire compacted conductor
- Note: It is possible to manufacture cable with sealed conductor.
- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape
- 6. Copper screen

Note: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor

- 7. Lapping layer of glass tape
- 8. Low flammable PVC compound outer sheath