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АПвЭВ-20 3x185 ТУ У 31.3-00214534-017-2003

Power cables with aluminium conductors, with XLPE and PVC compound outer sheath

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

NA2XSEY (DE) · A2XSEY (DE) · AI/XLPE/CWS/PVC (GB) · AΠ_BB (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
- · single laying

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

Order entry example:

АПвЭВ-20 3x185/25 (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:

АПвЭВ-20 3х185/25 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ100000000

Products of this mark meet the requirements:

· single wire cable flame retardance







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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	25
Permissible short circuit current across the screen of	kA	5.1
minimum cross-section		
Maximum permissible short-circuit current in core	kA	17.5
Permissible continious current rating *		
by aerial laying	Α	355
• by burial	Α	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	1168
Rated outer diameter of the cable (for reference) **	mm	73
Cable weight (approximate)	kg/km	6040
Rated factory cable length and gross weight of the delivery	m, t	# 22УД-60: 319 • 2.8
on the drums ***		# 25УД-90: 583 • 5.1
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 °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. PVC compound outer sheath

Note: Conductor twisting is not illustrated