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АПвЭгПу(к)-20 3х300 ТУ У 31.3-00214534-017-2003

Three core power cables with aluminium conductors, XLPE-insulated, core-filled with bundles, with reinforced outer sheath of polyethylene

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in soil (trenches)
- · on difficult route sections, according to the unique specification
- · in the air, including cable structures, if provided the additional fire protection

It is possible to manufacture cables with extruded semiconductor layer along outer sheath.

Order entry example:

АПвЭгПу(к)-П-20 3х300/25 ТУ У 31.3-00214534-017-2003

An extruded semiconductor layer along outer sheath ensures the correct testing of cable line with sections of underground laying in polymer pipes.

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

Order entry example:

АПвЭгПу(к)-20 3х300/25 (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:

АПвЭгПу(к)-20 3х300/25 (г) ТУ У 31.3-00214534-017-2003







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TECHNICAL SPECIFICATIONS

ated voltage	kV	20
laximum voltage	kV	24
umber and rated area of conductors	mm²	3 x 300
sulation thikness	mm	5.5
linimum screen cross-section	mm²	25
ermissible short circuit current across the screen of	kA	5.1
inimum cross-section		
laximum permissible short-circuit current in core	kA	28.2
ermissible continious current rating *		
by aerial laying	Α	475
by burial	Α	384
artial discharge factor for rated voltage, not more than	рС	6
laximum permissible conductor temperature		
Continious	° C	+90
in emergency operation	° C	+130
at short circuit	° C	+250
perating temperature range	° C	-60 +50
linimum bending radius by laying	mm	1376
ated outer diameter of the cable (for reference) **	mm	86
able weight (approximate)	kg/km	6210
ated factory cable length and gross weight of the delivery	m, t	# 25УД-90: 420 • 4.2
n the drums ***		# 26УД-100: 604 • 5.6
		# 30УД-130: 825 • 8.0

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 $\pm\,7\,\%$



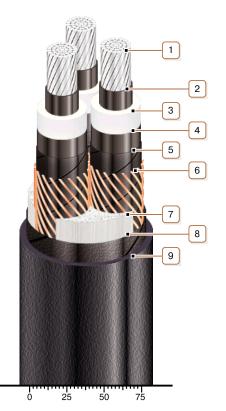




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CONSTRUCTION

1. Aluminium multiwire compacted conductor

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

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

- 7. Interstitial filler with polypropylene bundles
- 8. Lapping layer of semiconductive tape
- 9. Strengthened polyethylene outer sheath

Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath

Note: Conductor twisting is not illustrated