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101802-200030000120

АПвЕгПу(б)-20 3х120
ТУ У 31.3-00214534-017-2003

Three core power cables with aluminium conductors, XLPE-insulated, without core filling, 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:
АПвЕгПу(б)-П–20 3х120/16 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:
АПвЕгПу(б)-20 3х120/16 (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:
АПвЕгПу(б)-20 3х120/16 (г) ТУ У 31.3-00214534-017-2003

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TECHNICAL SPECIFICATIONS

Rated voltage	kV	20
Maximum voltage	kV	24
Number and rated area of conductors	mm^2	3 x 120
Insulation thikness	mm	5.5
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	11.3
Permissible continious current rating *		
• *by aerial laying*	A	273
• *by burial*	A	232
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	° C	-60 ... +50
Minimum bending radius by laying	mm	1088
Rated outer diameter of the cable (for reference) **	mm	68
Cable weight (approximate)	kg/km	3190
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 22УД-60: 339 • 2.0 # 25УД-90: 611 • 3.5

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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Three core power cables with aluminium conductors, XLPE-insulated, without core filling, with reinforced outer sheath of polyethylene

CONSTRUCTION

1. Aluminium multiwire compacted conductor
Notes:
- *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. Lapping layer of semiconductive tape

8. Strengthened polyethylene outer sheath
Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath

Note: Conductor twisting is not illustrated

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