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105104-200030000120

ПвЕгП-20 3х120
ТУ У 31.3-00214534-017-2003

Power cables with copper conductors, with XLPE, longitudinal screen sealing and polyethylene outer sheath

For the cable of this mark correspond the foreign-made analogues:
N2XSE2Y (DE) • 2XSE2Y (DE) • Cu/XLPE/CWS/MDPE (GB) • ПвПг (RU) • ПвП (RU)
Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:
- *in soil (trenches)*
- *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:
ПвЕгП-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:
ПвЕгП-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:
ПвЕгП-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	17.2
Permissible continious current rating *		
• *by aerial laying*	A	351
• *by burial*	A	298
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	1120
Rated outer diameter of the cable (for reference) **	mm	70
Cable weight (approximate)	kg/km	7050
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 22УД-60: 339 • 3.3 # 25УД-90: 611 • 5.9

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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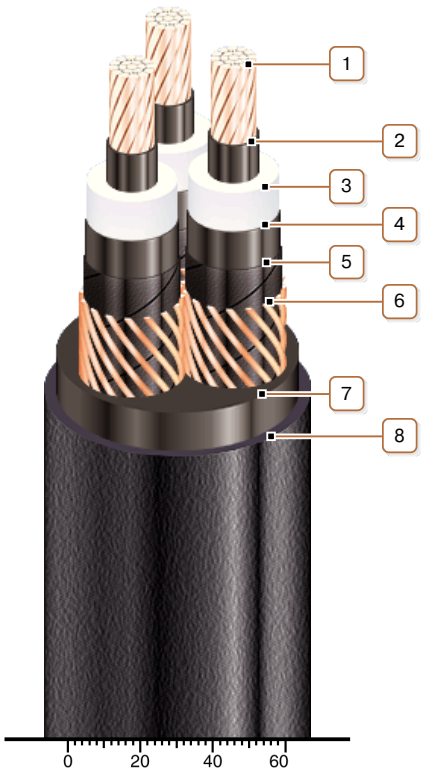

CONSTRUCTION

1. Copper multiwire compact 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. Outer sheath of polyethylene or polyethylene copolymer
Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath

Note: Conductor twisting is not illustrated

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