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ПвЭгПу-10 1х1200 ТУ У 31.3-00214534-017-2003

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

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

Π_ΒΠγ_Γ (RU)

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:

ПвЭгПу-П-10 1х1200/70 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:

ПвЭгПу-10 1х1200/70 (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 conductor.

Order entry example:

ПвЭгПу-10 1х1200/70 (г) ТУ У 31.3-00214534-017-2003









ПвЭгПу-10 1х1200 ТУ У 31.3-00214534-017-2003

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TECHNICAL SPECIFICATIONS

Maximum voltagekV12Number and rated area of conductorsmm²1 x 1200Insulation thiknessmm3.4Minimum screen cross-sectionmm²70Permissible short circuit current across the screen of minimum cross-sectionkA14.2Maximum permissible short-circuit current in corekA172Permissible continious current rating *• by aerial laying in trefoil formationA1505• by aerial flat layingA2088• by burial in trefoil formationA995• by burial flatA827Partial discharge factor for rated voltage, not more thanpC6Maximum permissible conductor temperature.6• Continious° C+90• in emergency operation° C+90• in emergency operation° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1152Rated outer diameter of the cable (for reference) **mm72Cable weight (approximate)kg/km13760	Rated voltage	kV	10
Insulation thikness mm 3.4 Minimum screen cross-section mm² 70 Permissible short circuit current across the screen of kA 14.2 minimum cross-section Maximum permissible short-circuit current in core kA 172 Permissible continious current rating * · by aerial laying in trefoil formation A 1505 · by aerial flat laying A 2088 · by burial in trefoil formation A 995 · by burial flat A 827 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 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	Maximum voltage	kV	12
Minimum screen cross-section mm² 70 Permissible short circuit current across the screen of kA 14.2 minimum cross-section Maximum permissible short-circuit current in core kA 172 Permissible continious current rating * • by aerial laying in trefoil formation A 1505 • by aerial flat laying A 2088 • by burial in trefoil formation A 995 • by burial flat A 827 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 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	Number and rated area of conductors	mm²	1 x 1200
Permissible short circuit current across the screen of minimum cross-section Maximum permissible short-circuit current in core kA 172 Permissible continious current rating * • by aerial laying in trefoil formation A 1505 • by aerial flat laying A 2088 • by burial in trefoil formation A 995 • by burial flat A 827 Partial discharge factor for rated voltage, not more than pC 6 Maximum permissible conductor temperature • Continious • C +90 • in emergency operation • at short circuit • C +250 Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	Insulation thikness	mm	3.4
minimum cross-section Maximum permissible short-circuit current in core kA 172 Permissible continious current rating * • by aerial laying in trefoil formation A 1505 • by aerial flat laying A 2088 • by burial in trefoil formation A 995 • by burial flat A 827 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 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	Minimum screen cross-section	mm²	70
Maximum permissible short-circuit current in core Permissible continious current rating * • by aerial laying in trefoil formation • by aerial flat laying • by aerial flat laying A 2088 • by burial in trefoil formation A 995 • by burial flat A 827 Partial discharge factor for rated voltage, not more than pC 6 Maximum permissible conductor temperature • Continious • C +90 • in emergency operation • at short circuit C +250 Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	Permissible short circuit current across the screen of	kA	14.2
Permissible continious current rating * • by aerial laying in trefoil formation • by aerial flat laying • by aerial flat laying • by burial in trefoil formation • by burial in trefoil formation • by burial flat A 995 • by burial flat A 827 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 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	minimum cross-section		
 by aerial laying in trefoil formation by aerial flat laying by burial in trefoil formation by burial in trefoil formation by burial flat A 827 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 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760 	Maximum permissible short-circuit current in core	kA	172
 by aerial flat laying by burial in trefoil formation by burial flat by burial flat A 827 Partial discharge factor for rated voltage, not more than C 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 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760 	Permissible continious current rating *		
 by burial in trefoil formation by burial flat Partial discharge factor for rated voltage, not more than Maximum permissible conductor temperature Continious in emergency operation c +90 in emergency operation C +130 at short circuit C +250 Operating temperature range C -60+50 Minimum bending radius by laying mm 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760 	by aerial laying in trefoil formation	Α	1505
 by burial flat Partial discharge factor for rated voltage, not more than 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 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760 	by aerial flat laying	Α	2088
Partial discharge factor for rated voltage, not more than pC 6 Maximum permissible conductor temperature • Continious • in emergency operation • at short circuit • C +250 Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) Reference of the cable (for reference) ** kg/km 13760	by burial in trefoil formation	Α	995
Maximum permissible conductor temperature • Continious • in emergency operation • at short circuit • C Operating temperature range • C Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** Cable weight (approximate) • C +90 +130 • C +250 • C -60 +50 mm 1152 mm 72 Cable weight (approximate)	• by burial flat	Α	827
 Continious in emergency operation at short circuit C +250 Operating temperature range C -60 +50 Minimum bending radius by laying mm 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760 	Partial discharge factor for rated voltage, not more than	рС	6
 in emergency operation at short circuit C +250 Operating temperature range C -60 +50 Minimum bending radius by laying mm 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760 	Maximum permissible conductor temperature		
 at short circuit C +250 Operating temperature range C -60 +50 Minimum bending radius by laying mm 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760 	• Continious	° C	+90
Operating temperature range °C -60 +50 Minimum bending radius by laying mm 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	· in emergency operation	°C	+130
Minimum bending radius by laying mm 1152 Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	• at short circuit	°C	+250
Rated outer diameter of the cable (for reference) ** mm 72 Cable weight (approximate) kg/km 13760	Operating temperature range	°C	-60 +50
Cable weight (approximate) kg/km 13760	Minimum bending radius by laying	mm	1152
<u> </u>	Rated outer diameter of the cable (for reference) **	mm	72
	Cable weight (approximate)	kg/km	13760
Rated factory cable length and gross weight of the delivery m, t # 25УД-90: 583 • 9.6 on the drums ***		m, t	# 25УД-90: 583 • 9.6

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, thermal resistivity of soil 1.5 °K•m/W, laying depth in the soil 0.8 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, shields are earthed on 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 ± 7 %



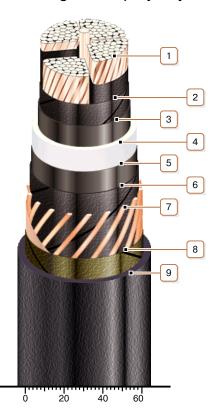




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Power cables with copper conductors, with XLPE, longitudinal screen sealing and strengthened polyethylene outer sheath



CONSTRUCTION

- 1. Copper segmentary multiwire compact conductor
- It is possible to manufacture cable with sealed conductor.
- · Conductor segment twisting is not illustrated
- 2. Lapping layer of semiconductive swellable tape
- 3. Inner extruded semiconducting layer
- 4. XLPE insulation
- 5. Outer extruded semiconducting layer
- 6. Lapping layer of semiconductive swellable tape
- 7. Copper screen
- 8. Lapping layer of nonwoven cloth tape
- 9. Strengthened polyethylene outer sheath

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