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ПвЭгаПу-132 1х400 ТУ У 31.3-00214534-060:2011

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

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

ПвПу2г (RU)

Technical cable requirements correspond to IEC 60840

Cables are used for laying:

- · in soil (trenches)
- · in damp, partially flooded premises
- · in ground with high humidity
- · in non-navigable waters
- · 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:

ПвЭгаПу-П-132 1х400/95 ТУ У 31.3-00214534-060:2011

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:

ПвЭгаПу-132 1х400/95 (ОМ) ТУ У 31.3-00214534-060:2011

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:

ПвЭгаПу-132 1х400/95 (г) ТУ У 31.3-00214534-060:2011







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ПвЭгаПу-132 1х400 ТУ У 31.3-00214534-060:2011

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

TECHNICAL SPECIFICATIONS

Maximum voltage kV 145 Conductor rated area mm² 400 Minimum screen cross-section mm² 35 Partial discharge factor for rated voltage, not more than pC 6 Permissible short circuit current across the screen of kA 7.1 minimum cross-section Maximum permissible short-circuit current in core kA 57.2 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 784 • in trefoil formation with single-side screen earthing or cross screen earthing • plane with double-side screen earthing or cross screen earthing • plane with single-side screen earthing or cross screen earthing • in trefoil formation with double-side screen earthing or cross screen earthing • in trefoil formation with double-side screen earthing or cross screen earthing • in trefoil formation with double-side screen earthing or A 662 cross screen earthing • in trefoil formation with single-side screen earthing or A 662 cross screen earthing • plane with single-side screen earthing or cross screen • plane with single-side screen earthing or cross screen • plane with single-side screen earthing or cross screen • plane with single-side screen earthing or cross screen • continious • continio	Rated voltage	kV	132
Conductor rated area mm² 400 Minimum screen cross-section mm² 35 Partial discharge factor for rated voltage, not more than pC 6 Permissible short circuit current across the screen of kA 7.1 minimum cross-section kA 57.2 Permissible continious current rating by aerial laying * - • in trefoil formation with double-side screen earthing A 784 • in trefoil formation with single-side screen earthing or A 826 cross screen earthing A 792 • plane with double-side screen earthing or cross screen A 954 earthing A 619 Permissible continious current rating by burial * - in trefoil formation with double-side screen earthing or A 662 cross screen earthing A 619 - respectively formation with single-side screen earthing or A 662 cross screen earthing A 662 - - respectively formation with single-side screen earthing or cross screen A 694 - - e - e - e - e -<			
Minimum screen cross-section mm² 35 Partial discharge factor for rated voltage, not more than pC 6 Permissible short circuit current across the screen of minimum cross-section Maximum permissible short-circuit current in core kA 57.2 Permissible continious current rating by aerial laying * - in trefoil formation with double-side screen earthing A 826 cross screen earthing - plane with double-side screen earthing or cross screen earthing A 954 - in trefoil formation with single-side screen earthing or cross screen earthing - plane with single-side screen earthing or cross screen earthing Permissible continious current rating by burial * - in trefoil formation with double-side screen earthing or A 619 - in trefoil formation with single-side screen earthing A 619 - in trefoil formation with single-side screen earthing or A 662 - cross screen earthing - plane with double-side screen earthing or A 662 - cross screen earthing - plane with double-side screen earthing or A 694 - earthing Maximum permissible conductor temperature - Continious - C +90 - in emergency operation - C +130 - at short circuit - C -60 +50 Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 80 Cable weight (approximate) kg/km 9700 Rated factory cable length and gross weight of the delivery on the drums *** # 269/Д-100: 631 · 7.9		mm²	400
Partial discharge factor for rated voltage, not more than pC 6 Permissible short circuit current across the screen of kA 7.1 minimum cross-section Maximum permissible short-circuit current in core kA 57.2 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 826 cross screen earthing • plane with double-side screen earthing or cross screen earthing or plane with single-side screen earthing or cross screen earthing • plane with single-side screen earthing or cross screen A 954 • in trefoil formation with double-side screen earthing or cross screen A 954 • in trefoil formation with double-side screen earthing or cross screen A 662 • in trefoil formation with single-side screen earthing or A 662 cross screen earthing • plane with double-side screen earthing or A 662 cross screen earthing • plane with double-side screen earthing or A 662 cross screen earthing • plane with double-side screen earthing or cross screen A 694 earthing Maximum permissible conductor temperature • Continious • C +90 • in emergency operation • C +130 • at short circuit • C -60 +50 Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 80 Cable weight (approximate) kg/km 9700 Rated factory cable length and gross weight of the delivery on the drums *** # 26VJA-100: 631 • 7.9			35
Permissible short circuit current across the screen of minimum cross-section Maximum permissible short-circuit current in core kA 57.2 Permissible continious current rating by aerial laying * · in trefoil formation with double-side screen earthing A 826 cross screen earthing · plane with double-side screen earthing or cross screen earthing arthing earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing or cross screen earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing A 619 · in trefoil formation with single-side screen earthing or A 662 cross screen earthing - in trefoil formation with single-side screen earthing or A 662 cross screen earthing - plane with double-side screen earthing or cross screen A 694 earthing 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 80 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 631 • 7.9	Partial discharge factor for rated voltage, not more than	рС	6
Maximum permissible short-circuit current in core Permissible continious current rating by aerial laying * in trefoil formation with double-side screen earthing in trefoil formation with single-side screen earthing or plane with double-side screen earthing or plane with double-side screen earthing or cross screen plane with single-side screen earthing or cross screen plane with single-side screen earthing or cross screen permissible continious current rating by burial * in trefoil formation with double-side screen earthing or in trefoil formation with single-side screen earthing or plane with double-side screen earthing or plane with double-side screen earthing or plane with double-side screen earthing or plane with single-side screen earthing or cross screen A 567 plane with single-side screen earthing or cross screen A 694 earthing Maximum permissible conductor temperature Continious C +90 in emergency operation c C +130 at short circuit C +250 Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 80 Cable weight (approximate) Rated factory cable length and gross weight of the delivery n, t #25VД-90: 443 · 5.9 on the drums *** #26VД-100: 631 · 7.9	Permissible short circuit current across the screen of	kA	7.1
Permissible continious current rating by aerial laying *	minimum cross-section		
• in trefoil formation with double-side screen earthing A 784 • in trefoil formation with single-side screen earthing or cross screen earthing A 826 • plane with double-side screen earthing or cross screen earthing A 792 • plane with single-side screen earthing or cross screen earthing A 954 • plane with single-side screen earthing by burial * • in trefoil formation with double-side screen earthing or cross screen earthing A 619 • in trefoil formation with single-side screen earthing or cross screen earthing A 662 • plane with double-side screen earthing or cross screen earthing A 694 • plane with single-side screen earthing or cross screen earthing A 694 • plane with single-side screen earthing or cross screen earthing C +90 • plane with single-side screen earthing or cross screen earthing * C +90 • plane with single-side screen earthing or cross screen earthing * C +90 • plane with single-side screen earthing or cross screen * C +90 • plane with single-side screen earthing or cross screen * C +90 • in emergency operation * C +90 • in emergency operation * C <	Maximum permissible short-circuit current in core	kA	57.2
• in trefoil formation with single-side screen earthing or cross screen earthing A 826 cross screen earthing A 792 • plane with double-side screen earthing or cross screen earthing A 954 earthing B 954 Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing A 619 • in trefoil formation with single-side screen earthing or cross screen earthing A 662 • plane with double-side screen earthing or cross screen A 694 • plane with single-side screen earthing or cross screen A 694 • earthing A 694 Maximum permissible conductor temperature • C +90 • 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 1280 Rated outer diameter of the cable (for reference) ** mm 80 Cable weight (approximate) kg/km 9700 Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 631 • 7.9	Permissible continious current rating by aerial laying *		
cross screen earthing • plane with double-side screen earthing or cross screen • plane with single-side screen earthing or cross screen earthing Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing • in trefoil formation with single-side screen earthing or • in trefoil formation with single-side screen earthing or • plane with double-side screen earthing • plane with double-side screen earthing or cross screen earthing 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 80 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 631 • 7.9	in trefoil formation with double-side screen earthing	Α	784
 plane with double-side screen earthing plane with single-side screen earthing or cross screen earthing Permissible continious current rating by burial * in trefoil formation with double-side screen earthing in trefoil formation with single-side screen earthing or in trefoil formation with single-side screen earthing or plane with double-side screen earthing plane with single-side screen earthing or cross screen plane with single-side screen earthing or cross screen plane with single-side screen earthing or cross screen earthing 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 1280 Rated outer diameter of the cable (for reference) ** mm 80 Cable weight (approximate) kg/km 9700 Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-90: 443 · 5.9 on the drums *** # 26УД-100: 631 · 7.9 	in trefoil formation with single-side screen earthing or	Α	826
 plane with single-side screen earthing or cross screen earthing Permissible continious current rating by burial * in trefoil formation with double-side screen earthing in trefoil formation with single-side screen earthing or cross screen earthing plane with double-side screen earthing plane with double-side screen earthing or cross screen plane with single-side screen earthing or cross screen plane with single-side screen earthing or cross screen 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 1280 Rated outer diameter of the cable (for reference) ** mm 80 Cable weight (approximate) kg/km 9700 Rated factory cable length and gross weight of the delivery on the drums *** # 25УД-90: 443 · 5.9 on the drums *** # 26УД-100: 631 · 7.9 	cross screen earthing		
earthing Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing • in trefoil formation with single-side screen earthing or cross screen earthing • plane with double-side screen earthing or cross screen • plane with single-side screen earthing or cross screen • plane with single-side screen earthing or cross screen • A 694 • earthing Maximum permissible conductor temperature • Continious	plane with double-side screen earthing	Α	792
Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing · in trefoil formation with single-side screen earthing or · in trefoil formation with single-side screen earthing or · plane with double-side screen earthing · plane with single-side screen earthing or cross screen · plane with single-side screen earthing or cross screen earthing Maximum permissible conductor temperature · Continious	 plane with single-side screen earthing or cross screen 	Α	954
• in trefoil formation with double-side screen earthingA619• in trefoil formation with single-side screen earthing or cross screen earthingA662• plane with double-side screen earthingA567• plane with single-side screen earthing or cross screen earthingA694Maximum permissible conductor temperature• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 443 • 5.9w 26УД-100: 631 • 7.9	earthing		
・in trefoil formation with single-side screen earthing or cross screen earthing ・plane with double-side screen earthing ・plane with single-side screen earthing or cross screen earthing Maximum permissible conductor temperature ・Continious ・C +90 ・in emergency operation ・in emergency operation ・at short circuit ・C +250 Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 631 • 7.9	Permissible continious current rating by burial *		
cross screen earthing • plane with double-side screen earthing or cross screen • plane with single-side screen earthing or cross screen earthing Maximum permissible conductor temperature • Continious • in emergency operation • 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 80 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 631 • 7.9	 in trefoil formation with double-side screen earthing 	Α	619
• plane with double-side screen earthingA567• plane with single-side screen earthing or cross screen earthingA694Maximum permissible conductor temperature° C+90• Continious° C+130• in emergency operation° C+250• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 443 • 5.9w 26УД-100: 631 • 7.9	 in trefoil formation with single-side screen earthing or 	Α	662
・ plane with single-side screen earthing or cross screen earthing 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 1280 Rated outer diameter of the cable (for reference) ** mm 80 Cable weight (approximate) kg/km 9700 Rated factory cable length and gross weight of the delivery m, t # 25УД-90: 443 · 5.9 on the drums *** # 26УД-100: 631 · 7.9			
earthingMaximum permissible conductor temperature• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 443 • 5.9	 plane with double-side screen earthing 	Α	567
Maximum permissible conductor temperature°C+90• Continious°C+90• in emergency operation°C+130• at short circuit°C+250Operating temperature range°C-60 +50Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 443 • 5.9on the drums ****# 26УД-100: 631 • 7.9	 plane with single-side screen earthing or cross screen 	Α	694
• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 443 • 5.9on the drums ***# 26УД-100: 631 • 7.9	earthing		
• in emergency operation°C+130• at short circuit°C+250Operating temperature range°C-60 +50Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 443 • 5.9on the drums ***# 26УД-100: 631 • 7.9	Maximum permissible conductor temperature		
• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 443 • 5.9	Continious		
Operating temperature range° C-60 +50Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 443 • 5.9	in emergency operation		
Minimum bending radius by layingmm1280Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 443 • 5.9on the drums ***# 26УД-100: 631 • 7.9	• at short circuit		
Rated outer diameter of the cable (for reference) **mm80Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 443 • 5.9on the drums ***# 26УД-100: 631 • 7.9	Operating temperature range	° C	
Cable weight (approximate)kg/km9700Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 443 • 5.9on the drums ***# 26УД-100: 631 • 7.9		mm	1280
Rated factory cable length and gross weight of the delivery m, t # 25УД-90: 443 • 5.9 on the drums *** # 26УД-100: 631 • 7.9	Rated outer diameter of the cable (for reference) **	mm	80
on the drums *** # 26УД-100: 631 • 7.9		kg/km	9700
•	, , ,	m, t	• •
# 30УД-130: **** 737 • 10.0	on the drums ***		
			# 30УД-130: **** 737 · 10.0

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 1.0 °K • m/W, laying depth in the ground 1.5 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

^{**} The external diameter may differ from the rated up to \pm 10 %

^{***} Отклонение фактической массы брутто от указанного значения может составлять ± 7 %

^{****} Option delivery on not full drum





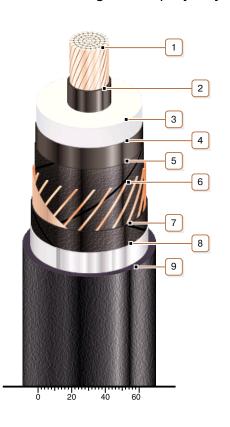




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Power cables with copper conductor, with XLPE, longitudinal and transverse screen sealing and strengthened polyethylene outer sheath



CONSTRUCTION

1. Copper multiwire compact conductor

Note: It is possible to manufacture cable with sealed conductor.

- 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. Lapping layer of semiconductive swellable tape
- 8. Alumopolymer tape
- 9. Strengthened polyethylene outer sheath

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