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ПвЭгаПу-132 1x630 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 1х630/95 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 1х630/95 (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 1х630/95 (г) ТУ У 31.3-00214534-060:2011







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ПвЭгаПу-132 1x630 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 630 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 90.1 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 989 • 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 845 • in trefoil formation with double-side screen earthing or A 845 • in trefoil formation with single-side screen earthing or A 845 • in trefoil formation with single-side screen earthing or A 845 • 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 • 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 • plane with single-side screen earthing • 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 1360 Rated outer diameter of the cable (for reference) ** mm 85 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 25VJA-90: 420 • 6.7 # 30VJA-130: **** 583 • 10.0	Rated voltage	kV	132
Conductor rated area mm² 630 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 90.1 Maximum permissible short-circuit current in core kA 90.1 Permissible continious current rating by aerial laying * Image: second continuous current rating of the side screen earthing A 989 • in trefoil formation with double-side screen earthing or cross screen earthing A 1075 cross screen earthing A 934 1255 earthing A 934 1255 earthing A 761 1255 earthing A 845 1256 e plane with double-side screen earthing or cross screen A <			
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 90.1 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 1075 cross screen earthing • plane with double-side screen earthing or cross screen earthing A 1255 earthing Permissible continious current rating by burial * • in trefoil formation with single-side screen earthing or cross screen earthing A 245 • in trefoil formation with single-side screen earthing or cross screen earthing A 255 earthing Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing A 361 • in trefoil formation with single-side screen earthing A 364 • in trefoil formation with single-side screen earthing A 364 • in trefoil formation with single-side screen earthing A 364 • plane with double-side screen earthing A 3664 • plane with double-side screen earthing A 3664 • plane with single-side screen earthing A 3664 • plane with double-side screen earthing A 3664 • plane with single-side screen earthing A 3664 • plane with		mm²	630
Permissible short circuit current across the screen of minimum cross-section Maximum permissible short-circuit current in core Permissible continious current rating by aerial laying * in trefoil formation with double-side screen earthing or cross screen earthing plane with double-side screen earthing or earthing or earthing or earthing Permissible continious current rating by burial * in trefoil formation with double-side screen earthing or cross screen earthing or earthing Permissible continious current rating by burial * in trefoil formation with double-side screen earthing or cross screen earthing or cross screen earthing Permissible continious current rating by burial * in trefoil formation with single-side screen earthing or A 845 cross screen earthing - plane with double-side screen earthing or cross screen earthing or cross screen earthing Maximum permissible conductor temperature - Continious Continious c C +90 in emergency operation c C +250 Operating temperature range c C -60 +50 Minimum bending radius by laying maximum permissible conductor the cable (for reference) ** mm 85 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 604 • 9.2	Minimum screen cross-section		35
minimum cross-section Maximum permissible short-circuit current in core Permissible continious current rating by aerial laying * · in trefoil formation with double-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 Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing or A 845 · in trefoil formation with single-side screen earthing or A 845 ross screen earthing · plane with double-side screen earthing or A 845 cross screen earthing · plane with single-side screen earthing or cross screen A 894 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 85 Cable weight (approximate) Rated factory cable length and gross weight of the delivery m, t # 25VД-90: 420 · 6.7 on the drums *** # 26VД-100: 604 · 9.2	Partial discharge factor for rated voltage, not more than	рC	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 at thing 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 cross screen plane with single-side screen earthing plane with single-side	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 989 • in trefoil formation with single-side screen earthing or cross screen earthing A 1075 • plane with double-side screen earthing or cross screen earthing A 934 • plane with single-side screen earthing or cross screen earthing A 1255 earthing Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing or cross screen earthing or cross screen earthing A 761 • in trefoil formation with single-side screen earthing or cross screen earthing A 845 cross screen earthing A 664 • plane with double-side screen earthing or cross screen earthing A 894 • plane with single-side screen earthing or cross screen earthing A 894 • plane with single-side screen earthing or cross screen earthing A 894 • plane with single-side screen earthing or cross screen earthing A 894 • plane with single-side screen earthing or cross screen A 894 • 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	90.1
• in trefoil formation with single-side screen earthing or cross screen earthing A 1075 • plane with double-side screen earthing A 934 • plane with single-side screen earthing or cross screen earthing A 1255 earthing A 761 Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing A 761 • in trefoil formation with single-side screen earthing or cross screen earthing A 845 • cross screen earthing A 664 • plane with double-side screen earthing or cross screen A 894 • arthing A 664 • plane with single-side screen earthing or cross screen A 894 • arthing A 664 • plane with single-side screen earthing or cross screen A 894 • arthing A 664 • plane with single-side screen earthing or cross screen A 894 • continious ° C +90 • in emergency operation ° C +90 • in emergency operation ° C +130 • at short circuit ° C +250 <td>Permissible continious current rating by aerial laying *</td> <td></td> <td></td>	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 85 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 604 • 9.2	in trefoil formation with double-side screen earthing	Α	989
 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 1360 Rated outer diameter of the cable (for reference) ** mm 85 Cable weight (approximate) kg/km 12260 Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 604 • 9.2 	in trefoil formation with single-side screen earthing or	Α	1075
 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 1360 Rated outer diameter of the cable (for reference) ** mm 85 Cable weight (approximate) kg/km #259Д-90: 420 · 6.7 on the drums *** #269Д-100: 604 · 9.2 	cross screen earthing		
earthingPermissible continious current rating by burial *• in trefoil formation with double-side screen earthingA761• in trefoil formation with single-side screen earthing or cross screen earthingA845• plane with double-side screen earthingA664• plane with single-side screen earthing or cross screenA894earthingMaximum permissible conductor temperature• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 6.7on the drums ***# 26УД-100: 604 • 9.2	plane with double-side screen earthing	Α	934
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 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	1255
• in trefoil formation with double-side screen earthingA761• in trefoil formation with single-side screen earthing or cross screen earthingA845• plane with double-side screen earthingA664• plane with single-side screen earthing or cross screen earthingA894Maximum permissible conductor temperature• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 420 • 6.7	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 ・plane with single-side screen earthing or cross screen earthing Maximum permissible conductor temperature ・Continious ・Contini	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 • C • in emergency operation • at short circuit • C 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 *** * A 664 * B 664 * C +90 • C +90 • C +130 • C +250 Operating temperature range or C -60 +50 mm 85 Cable weight (approximate) kg/km 12260 Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-90: 420 • 6.7 # 26УД-100: 604 • 9.2	in trefoil formation with double-side screen earthing	Α	761
• plane with double-side screen earthingA664• plane with single-side screen earthing or cross screen earthingA894Maximum 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 layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 420 • 6.7	in trefoil formation with single-side screen earthing or	Α	845
・ 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 1360 Rated outer diameter of the cable (for reference) ** mm 85 Cable weight (approximate) kg/km 12260 Rated factory cable length and gross weight of the delivery m, t # 25УД-90: 420 · 6.7 on the drums *** # 26УД-100: 604 · 9.2	cross screen earthing		
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 layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 6.7on the drums ****# 26УД-100: 604 • 9.2	plane with double-side screen earthing	Α	664
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 layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 6.7on the drums ****# 26УД-100: 604 • 9.2	 plane with single-side screen earthing or cross screen 	Α	894
• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 6.7on the drums ***# 26УД-100: 604 • 9.2	earthing		
• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 6.7on the drums ***# 26УД-100: 604 • 9.2	Maximum permissible conductor temperature		
• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 420 • 6.7	Continious		+90
Operating temperature range° C-60 +50Minimum bending radius by layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 420 • 6.7	in emergency operation	°C	+130
Minimum bending radius by layingmm1360Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 6.7on the drums ***# 26УД-100: 604 • 9.2	at short circuit		
Rated outer diameter of the cable (for reference) **mm85Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 6.7on the drums ***# 26УД-100: 604 • 9.2	Operating temperature range	°C	-60 +50
Cable weight (approximate)kg/km12260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 6.7on the drums ****# 26УД-100: 604 • 9.2		mm	1360
Rated factory cable length and gross weight of the delivery m, t # 25УД-90: 420 • 6.7 on the drums *** # 26УД-100: 604 • 9.2	Rated outer diameter of the cable (for reference) **	mm	85
on the drums *** # 26УД-100: 604 • 9.2	Cable weight (approximate)	kg/km	12260
•	, , ,	m, t	• •
# 30УД-130: **** 583 • 10.0	on the drums ***		
			# 30УД-130: **** 583 · 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



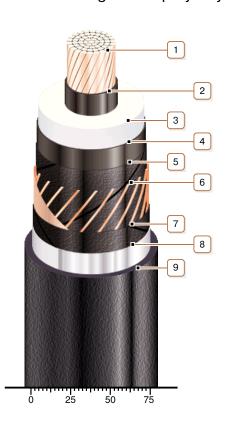




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Power cables with copper conductor, with XLPE, longitudinal and transverse screen sealing and strengthened polyethylene outer sheath



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