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ПвЭгаП-60 1x1200 ТУ У 31.3-00214534-060:2011

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

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

N2XS(FL)2Y (DE) • 2XS(FL)2Y (DE) • HXCHBMK (FI) • Cu/XLPE/CWS/LW/MDPE (GB) • XRUHKXS (PL) • Π B Π 2Γ (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
- 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:

ПвЭгаП-П-60 1х1200/95 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:

ПвЭгаП-60 1х1200/95 (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:

ПвЭгаП-60 1х1200/95 (г) ТУ У 31.3-00214534-060:2011







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ПвЭгаП-60 1x1200 ТУ У 31.3-00214534-060:2011

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

TECHNICAL SPECIFICATIONS

Maximum voltage kV 72.5 Conductor rated area mm² 1200 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 kA 10.2 Maximum permissible short-circuit current in core kA 172 Permissible continious current rating by aerial laying* * • in trefoil formation with double-side screen earthing A 1426 • in trefoil formation with single-side screen earthing or cross screen earthing A 1721 • plane with double-side screen earthing or cross screen A 2088 • plane with single-side screen earthing or cross screen A 2088 • permissible continious current rating by burial * • in trefoil formation with double-side screen earthing or A 1247 • in trefoil formation with single-side screen earthing or A 1247 • in trefoil formation with single-side screen earthing or A 1247 • in trefoil formation with single-side screen earthing or A 1247 • plane with double-side screen earthing A 807	Rated voltage	kV	60
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 172 Permissible continious current rating by aerial laying * - in trefoil formation with double-side screen earthing A 1426 - in trefoil formation with single-side screen earthing or A 1721 cross screen earthing - plane with double-side screen earthing or cross screen earthing A 2088 - 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 A 995 - in trefoil formation with single-side screen earthing or A 1247 - cross screen earthing - plane with double-side screen earthing or A 1247 - cross screen earthing - plane with double-side screen earthing or A 1327 - plane with single-side screen earthing or cross screen earthing with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earthing or cross screen A 1327 - plane with single-side screen earth	Maximum voltage	kV	72.5
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 kA 10.2 Maximum permissible short-circuit current in core kA 172 Permissible continious current rating by aerial laying * * • in trefoil formation with double-side screen earthing A 1426 • in trefoil formation with single-side screen earthing or cross screen earthing A 1721 cross screen earthing A 1279 • plane with double-side screen earthing or cross screen A 2088 earthing A 1247 Permissible continious current rating by burial * * • in trefoil formation with single-side screen earthing A 995 • in trefoil formation with single-side screen earthing or cross screen earthing A 1247 cross screen earthing A 807 • plane with double-side screen earthing or cross screen A 1327 earthing A 807 + Maximum permissible conductor temperature * C +90 • in emergency operation	Conductor rated area	mm²	1200
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 plane with single-side screen 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 or earthing	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 Permissible continious current rating by burial * · in trefoil formation with single-side screen earthing or cross screen earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing or in trefoil formation with double-side screen earthing or plane with single-side screen earthing or plane with double-side screen earthing or plane with single-side screen earthing or cross screen earthing plane with single-side screen earthing or cross screen plane with single-side screen earthing or cross screen arthing Maximum permissible conductor temperature Continious c C +90 in emergency operation c C +130 at short circuit c C +250 Operating temperature range c C -60 +50 Minimum bending radius by laying maximum permissible length and gross weight of the delivery m, t #25VД-90: 396 · 8.4 on the drums *** #26VД-100: 457 · 9.7	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 1327 plane with single-side screen earthing or cross screen A 1327 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 mm 1392 Rated outer diameter of the cable (for reference) ** mm 87 Cable weight (approximate) kg/km 17260 Rated factory cable length and gross weight of the delivery m, t # 25VД-90: 396 · 8.4 on the drums *** # 26VД-100: 457 · 9.7	Permissible short circuit current across the screen of	kA	10.2
Permissible continious current rating by aerial laying *	minimum cross-section		
• in trefoil formation with double-side screen earthing A 1426 • in trefoil formation with single-side screen earthing or cross screen earthing A 1721 • plane with double-side screen earthing or cross screen earthing A 1279 • plane with single-side screen earthing or cross screen earthing A 2088 • plane with single-side screen earthing by burial * • in trefoil formation with double-side screen earthing or cross screen earthing A 995 • in trefoil formation with single-side screen earthing or cross screen earthing A 1247 • plane with double-side screen earthing or cross screen earthing A 807 • plane with single-side screen earthing or cross screen earthing A 1327 • plane with single-side screen earthing or cross screen earthing A 1327 • 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 <t< td=""><td>Maximum permissible short-circuit current in core</td><td>kA</td><td>172</td></t<>	Maximum permissible short-circuit current in core	kA	172
• in trefoil formation with single-side screen earthing or cross screen earthing A 1721 • plane with double-side screen earthing A 1279 • plane with single-side screen earthing or cross screen earthing A 2088 earthing A 2088 Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing A 995 • in trefoil formation with single-side screen earthing or cross screen earthing A 807 • plane with double-side screen earthing or cross screen earthing A 807 • plane with single-side screen earthing or cross screen earthing A 1327 earthing A 1327 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 1392 Rated outer diameter of the cable (for reference) ** mm 87 Cable weight (approximate) kg/km 17260 <t< td=""><td>Permissible continious current rating by aerial laying *</td><td></td><td></td></t<>	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) ** Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 457 • 9.7	in trefoil formation with double-side screen earthing	Α	1426
 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 double-side screen earthing or cross screen plane with double-side screen earthing or cross screen plane with single-side screen earthing or cross screen plane with scientified plane with scientified plane with scientified plane with scientified plan	 in trefoil formation with single-side screen earthing or 	Α	1721
• plane with single-side screen earthing or cross screen earthingA2088Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing • in trefoil formation with single-side screen earthing or cross screen earthingA995• plane with double-side screen earthing or • plane with double-side screen earthingA807• plane with single-side screen earthing or cross screen earthingA1327Maximum permissible conductor temperature• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 396 • 8.4	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 1327 earthing Maximum permissible conductor temperature • Continious	plane with double-side screen earthing	Α	1279
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 · C +90 · in emergency operation · in emergency operation · at short circuit · C +250 Operating temperature range · C -60 +50 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: 457 · 9.7	plane with single-side screen earthing or cross screen	Α	2088
• in trefoil formation with double-side screen earthingA995• in trefoil formation with single-side screen earthing or cross screen earthingA1247• plane with double-side screen earthingA807• plane with single-side screen earthing or cross screen earthingA1327Maximum permissible conductor temperature• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 396 • 8.4	earthing		
• in trefoil formation with single-side screen earthing or cross screen earthingA1247• plane with double-side screen earthingA807• plane with single-side screen earthing or cross screen earthingA1327Maximum permissible conductor temperature• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 396 • 8.4	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 807 - 4 807 - +90 • C +130 • C +250 Operating temperature range ° C - 60 +50 mm 87 Cable weight (approximate) kg/km 17260 Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-90: 396 • 8.4 on the drums ***	 in trefoil formation with double-side screen earthing 	Α	995
• plane with double-side screen earthingA807• plane with single-side screen earthing or cross screen earthingA1327Maximum 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 layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 396 • 8.4	 in trefoil formation with single-side screen earthing or 	Α	1247
・ 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 1392 Rated outer diameter of the cable (for reference) ** mm 87 Cable weight (approximate) kg/km 17260 Rated factory cable length and gross weight of the delivery m, t # 25УД-90: 396 • 8.4 on the drums *** # 26УД-100: 457 • 9.7	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 layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 396 • 8.4	 plane with double-side screen earthing 	Α	807
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 layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 396 • 8.4on the drums ****# 26УД-100: 457 • 9.7	 plane with single-side screen earthing or cross screen 	Α	1327
• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 396 • 8.4on the drums ***# 26УД-100: 457 • 9.7	earthing		
• in emergency operation°C+130• at short circuit°C+250Operating temperature range°C-60 +50Minimum bending radius by layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 396 • 8.4on the drums ***# 26УД-100: 457 • 9.7	Maximum permissible conductor temperature		
• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 396 • 8.4	Continious		
Operating temperature range° C-60 +50Minimum bending radius by layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 396 • 8.4	 in emergency operation 	° C	+130
Minimum bending radius by layingmm1392Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 396 • 8.4on the drums ***# 26УД-100: 457 • 9.7	at short circuit		
Rated outer diameter of the cable (for reference) **mm87Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 396 • 8.4on the drums ***# 26УД-100: 457 • 9.7	Operating temperature range	° C	
Cable weight (approximate)kg/km17260Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 396 • 8.4on the drums ***# 26УД-100: 457 • 9.7		mm	1392
Rated factory cable length and gross weight of the delivery m, t # 25УД-90: 396 • 8.4 on the drums *** # 26УД-100: 457 • 9.7	Rated outer diameter of the cable (for reference) **	mm	87
on the drums *** # 26УД-100: 457 • 9.7	Cable weight (approximate)	kg/km	17260
•	, , , , , , , , , , , , , , , , , , , ,	m, t	• •
# 30УД-130: **** 414 • 10.0	on the drums ***		
			# 30УД-130: **** 414 • 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



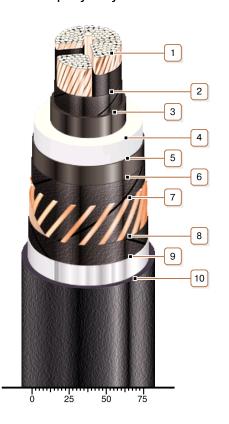




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Power cables with copper conductor, with XLPE, longitudinal and transverse screen sealing and polyethylene outer sheath



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

Note: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor

- 8. Lapping layer of semiconductive swellable tape
- 9. Alumopolymer tape
- 10. Outer sheath of polyethylene or polyethylene copolymer

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