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АПвЭгП-110 1x1000 ТУ У 31.3-00214534-060:2011

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

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

NA2XS2Y (DE) · NA2XS(F)2Y (DE) · A2XS2Y (DE) · A2XS(F)2Y (DE) · AI/XLPE/CWS/MDPE (GB) ·

XUHAKXS (PL) · XHAKXS (PL) · ΑΠΒΠΓ (RU) · ΑΠΒΠ (RU)

Technical cable requirements correspond to IEC 60840

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 cable with a segmented conductor

It is possible to manufacture cables with extruded semiconductor layer along outer sheath.

Order entry example:

АПвЭгП-П-110 1х1000/95 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:

АПвЭгП-110 1х1000/95 (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:

АПвЭгП-110 1х1000/95 (г) ТУ У 31.3-00214534-060:2011







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

TECHNICAL SPECIFICATIONS

Maximum voltage kV 126 Conductor rated area mm³ 1000 Minimum screen cross-section mm³ 35 Partial discharge factor for rated voltage, not more than pC 6 Permissible short circuit current across the screen of kA 10.2 Minimum cross-section kA 10.2 Minimum cross-section kA 10.2 Minimum cross-section kA 94 Permissible short-circuit current in core kA 94 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 1005 • in trefoil formation with single-side screen earthing or cross screen earthing • plane with double-side screen earthing or cross screen A 1282 earthing Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing or cross screen earthing • plane with single-side screen earthing or A 1282 earthing Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing or A 843 cross screen earthing • plane with double-side screen earthing or A 843 • plane with single-side screen earthing A 668 • 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 Minimum bending radius by laying mm 1344 Rated outer diameter of the cable (for reference) ** mm 84 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 25VJA-90: 420 • 5.5 # 30VJA-130: **** 766 • 10.0	Rated voltage	kV	110
Conductor rated area mm² 1000 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 10.2 minimum cross-section Maximum permissible short-circuit current in core kA 94 Permissible continious current rating by aerial laying '	-	kV	126
Minimum screen cross-section Partial discharge factor for rated voltage, not more than Pc 6 Permissible short circuit current across the screen of ka 10.2 minimum cross-section Maximum permissible short-circuit current in core ka 94 Permissible continious current rating by aerial laying * - in trefoil formation with double-side screen earthing A 1005 - in trefoil formation with single-side screen earthing or cross screen earthing A 1095 - plane with double-side screen earthing A 1282 - 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 760 - in trefoil formation with single-side screen earthing or A 843 - cross screen earthing - plane with double-side screen earthing or A 843 - ross screen earthing - plane with double-side screen earthing or A 843 - plane with single-side screen earthing A 668 - plane with single-side screen earthing A 760 - in trefoil formation with single-side screen earthing O A 897 - plane with single-side screen earthing O Cross screen A 897 - plane with single-side screen earthing O Cross screen A 897 - plane with single-side screen earthing O Cross screen A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O A 897 - plane with single-side screen earthing O Cross screen O Cross screen O Cross screen O Cro		mm²	1000
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 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 cross screen - 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 or cross screen earthing or cross 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 - continious -	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 or cross screen earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing or A 843 cross screen earthing · plane with double-side screen earthing or A 843 cross screen earthing · plane with double-side screen earthing or cross screen earthing Maximum permissible conductor temperature · Continious · in emergency operation · C +90 · in emergency operation · at short circuit · C +250 Operating temperature range · C -60 +50 Minimum bending radius by laying Mated outer diameter of the cable (for reference) ** mm 84 Cable weight (approximate) Rated factory cable length and gross weight of the delivery m, t # 25VД-90: 420 · 5.5 on the drums *** # 26VД-100: 604 · 7.5	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 or cross screen earthing · plane with double-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 · plane with single-side screen earthing or cross screen · plane with single-side screen earthing or cross screen · in trefoil formation with double-side screen earthing or · in trefoil formation with single-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 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 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 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 · plane with single-side screen earthing or cross screen · plane with single-side screen earthing · plane with single-side screen earthing · plane with single-side screen earthing · p	Permissible short circuit current across the screen of	kA	10.2
Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing	minimum cross-section		
• in trefoil formation with double-side screen earthing A 1005 • in trefoil formation with single-side screen earthing or cross screen earthing A 1095 • plane with double-side screen earthing or cross screen A 936 • plane with single-side screen earthing or cross screen A 1282 earthing Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing or cross screen earthing A 760 • in trefoil formation with single-side screen earthing or cross screen earthing A 843 cross screen earthing A 668 • plane with double-side screen earthing or cross screen A 897 earthing A 668 • plane with single-side screen earthing or cross screen A 897 earthing A 668 • plane with single-side screen earthing or cross screen A 897 earthing A 668 • plane with single-side screen earthing or cross screen A 897 maximum permissible conductor temperature • C +90 • in emergency operation ° C +90 • in emergency operation °	Maximum permissible short-circuit current in core	kA	94
• in trefoil formation with single-side screen earthing or cross screen earthing A 1095 • plane with double-side screen earthing A 936 • plane with single-side screen earthing or cross screen A 1282 earthing Bermissible continious current rating by burial * • in trefoil formation with double-side screen earthing A 760 • in trefoil formation with single-side screen earthing or cross screen earthing A 843 • cross screen earthing A 668 • plane with double-side screen earthing or cross screen A 897 earthing A 897 maximum permissible conductor temperature ° C +90 • in emergency operation ° C +90 • in emergency operation ° C +250 Operating temperature range ° C -60 +50 Minimum bending radius by laying mm 1344 Rated outer diameter of the cable (for reference) ** mm 84 Cable weight (approximate) kg/km 9330 Rated factory cable length and gross weight of the delivery on the drums *** # 259Д-100: 604 • 7.5	Permissible continious current rating by aerial laying *		
cross screen earthingA936• plane with double-side screen earthing or cross screenA1282earthingBearthingA760Permissible continious current rating by burial *• in trefoil formation with double-side screen earthingA760• in trefoil formation with single-side screen earthing orA843cross screen earthingA668• plane with double-side screen earthing or cross screenA897earthingMaximum permissible conductor temperature° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm13444Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 420 · 5.5on the drums ***# 26УД-100: 604 · 7.5	in trefoil formation with double-side screen earthing	Α	1005
 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 1344 Rated outer diameter of the cable (for reference) ** mm 84 Cable weight (approximate) kg/km 9330 Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 604 • 7.5 	in trefoil formation with single-side screen earthing or	Α	1095
· plane with single-side screen earthing or cross screen earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing	cross screen earthing		
earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing or A 843 cross screen earthing · plane with double-side screen earthing or A 897 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 1344 Rated outer diameter of the cable (for reference) ** mm 84 Cable weight (approximate) kg/km 9330 Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 604 · 7.5	plane with double-side screen earthing	Α	936
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 earthing Maximum permissible conductor temperature · Continious · in emergency operation · at short circuit Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 84 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 26УД-100: 604 · 7.5	 plane with single-side screen earthing or cross screen 	Α	1282
• 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 • 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 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: 604 • 7.5	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 ・ 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 *** # 25УД-90: 420 • 5.5 on the drums *** # 26УД-100: 604 • 7.5	Permissible continious current rating by burial *		
cross screen earthingA668• plane with double-side screen earthing or cross screenA897earthingBaximum permissible conductor temperature• Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 420 • 5.5on the drums ***# 26УД-100: 604 • 7.5	 in trefoil formation with double-side screen earthing 	Α	760
• plane with double-side screen earthing • plane with single-side screen earthing or cross screen earthing Maximum permissible conductor temperature • Continious • in emergency operation • at short circuit Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** Rated factory cable length and gross weight of the delivery on the drums *** A 668 A 897 A 89	 in trefoil formation with single-side screen earthing or 	Α	843
• plane with single-side screen earthing or cross screen earthingA897Maximum 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 layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the delivery on the drums ***# 25УД-90: 420 • 5.5	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 layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 420 • 5.5	 plane with double-side screen earthing 	Α	668
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 layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 5.5on the drums ***# 26УД-100: 604 • 7.5	 plane with single-side screen earthing or cross screen 	Α	897
· Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 5.5on the drums ***# 26УД-100: 604 • 7.5	earthing		
• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 5.5on the drums ***# 26УД-100: 604 • 7.5	Maximum permissible conductor temperature		
• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 420 • 5.5	Continious		
Operating temperature range°C-60 +50Minimum bending radius by layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the delivery on the drums ***m, t# 25УД-90: 420 • 5.5	 in emergency operation 	°C	+130
Minimum bending radius by layingmm1344Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 5.5on the drums ***# 26УД-100: 604 • 7.5	at short circuit		
Rated outer diameter of the cable (for reference) **mm84Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 5.5on the drums ***# 26УД-100: 604 • 7.5	· · · · · · · · · · · · · · · · · · ·	°C	
Cable weight (approximate)kg/km9330Rated factory cable length and gross weight of the deliverym, t# 25УД-90: 420 • 5.5on the drums ***# 26УД-100: 604 • 7.5		mm	1344
Rated factory cable length and gross weight of the delivery m, t # 25УД-90: 420 • 5.5 on the drums *** # 26УД-100: 604 • 7.5	Rated outer diameter of the cable (for reference) **	mm	84
on the drums *** # 26УД-100: 604 • 7.5		kg/km	9330
· '		m, t	• •
# 30УД-130: **** 766 • 10.0	on the drums ***		
			# 30УД-130: **** 766 • 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



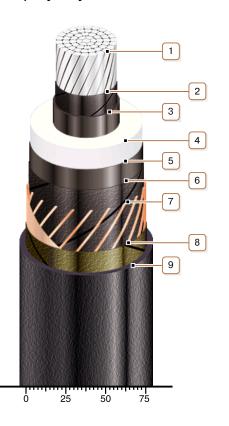




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Power cables with aluminium conductor, with XLPE, longitudinal screen sealing and polyethylene outer sheath



CONSTRUCTION

- 1. Aluminium multiwire compacted conductor
- · It is possible to manufacture cable with a segmented conductor
- · It is possible to manufacture cable with sealed conductor.
- 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 nonwoven cloth tape
- 9. Outer sheath of polyethylene or polyethylene copolymer

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