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АПвЭгП-132 1x300 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 cables with extruded semiconductor layer along outer sheath.

Order entry example:

АПвЭгП-П-132 1х300/95 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-132 1х300/95 (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-132 1х300/95 (г) ТУ У 31.3-00214534-060:2011







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АПвЭгП-132 1x300 ТУ У 31.3-00214534-060:2011

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

TECHNICAL SPECIFICATIONS

Maximum voltage kV 145 Conductor rated area mm² 300 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 7.1 minimum cross-section kA 7.1 minimum cross-section kA 28.2 Permissible short circuit current in core kA 28.2 Permissible continious current rating by aerial laying * in trefoil formation with double-side screen earthing A 549 in trefoil formation with single-side screen earthing or A 563 cross screen earthing plane with double-side screen earthing or cross screen A 649 earthing Permissible continious current rating by burial * in trefoil formation with double-side screen earthing A 440 in trefoil formation with double-side screen earthing A 455 cross screen earthing in trefoil formation with double-side screen earthing A 455 cross screen earthing plane with double-side screen earthing A 455 cross screen earthing plane with single-side screen earthing A 476 earthing Maximum permissible conductor temperature Continious 'C +90 in emergency operation 'C +130 in emergency operation 'C +130 in emergency operation 'C +130 in emergency additional by laying mm 1216 Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 25VJ-60: 319 · 3.0 mthe drums *** # 25VJ-60: 3443 · 4.5 # 26VJ-100: 664 · 6.2	Rated voltage	kV	132
Conductor rated area mm² 300 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 28.2 Permissible continious current rating by aerial laying * · in trefoil formation with double-side screen earthing A 549 · in trefoil formation with single-side screen earthing or A 563 cross screen earthing · plane with double-side screen earthing or cross screen A 649 earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing or cross screen A 649 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 455 cross screen earthing • plane with double-side screen earthing or A 455 cross screen earthing • plane with double-side screen earthing or cross screen earthing • plane with single-side screen earthing or cross screen A 476 earthing Maximum permissible conductor temperature • Continious • C +90 • in emergency operation • C +250 Operating temperature range Minimum bending radius by laying mm 1216 Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) kg/km 6650 Rated factory cable length and gross weight of the delivery on the drums *** # 259/Д-90: 443 • 4.5		kV	145
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 28.2 Permissible continious current rating by aerial laying * · in trefoil formation with double-side screen earthing A 549 · in trefoil formation with single-side screen earthing or cross screen earthing · plane with double-side screen earthing or cross screen arthing A 649 earthing Permissible continious current rating by burial * · in trefoil formation with double-side screen earthing A 440 · in trefoil formation with single-side screen earthing A 440 · in trefoil formation with single-side screen earthing A 455 cross screen earthing · plane with double-side screen earthing or A 455 cross screen earthing · plane with double-side screen earthing or A 428 · plane with double-side screen earthing A 4476 earthing Maximum permissible conductor temperature · Continious · C +90 · in emergency operation · C +130 · at short circuit · C -60 +50 Minimum bending radius by laying mm 1216 Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) kg/km 6650 Rated factory cable length and gross weight of the delivery on the drums *** # 25VД-90: 443 · 4.5		mm²	300
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 A 563 cross screen earthing · plane with double-side screen earthing or A 649 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 cross screen earthing or cross screen earthing or cross screen earthing or a 455 cross screen earthing Permissible continious current rating by burial * · in trefoil formation with single-side screen earthing or A 455 cross screen earthing Pane with double-side screen earthing or cross screen earthing or cross screen earthing or cross screen earthing or cross screen earthing Maximum permissible conductor temperature · Continious · C +90 · in emergency operation · C +250 Operating temperature range · C -60 +50 Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 25VД-90: 443 · 4.5	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 455 cross screen earthing · plane with double-side screen earthing or A 455 cross screen earthing · plane with double-side screen earthing or A 476 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 Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 25VД-90: 443 · 4.5	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 or plane with double-side screen earthing or cross screen earthing or plane with single-side screen earthing or cross screen earthing or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen earthing or cross screen earthing or cross screen earthing or cross screen earthing or plane with double-side screen earthing or cross screen earthing plane with double-side screen earthing or cross screen or plane with single-side screen earthing or cross screen earthing plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen or plane with single-side screen earthing or cross screen earth	Permissible short circuit current across the screen of	kA	7.1
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 549 • in trefoil formation with single-side screen earthing or cross screen earthing A 563 • plane with double-side screen earthing or cross screen earthing A 591 • plane with single-side screen earthing or cross screen earthing A 649 • plane with single-side screen earthing or cross screen earthing A 440 • in trefoil formation with double-side screen earthing or cross screen earthing A 455 • cross screen earthing A 428 • plane with double-side screen earthing or cross screen earthing A 476 • plane with single-side screen earthing or cross screen earthing A 476 • plane with single-side screen earthing or cross screen earthing A 476 • 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 • plane with single-side screen earthing or cross screen C +90 • continious ° C +90	Maximum permissible short-circuit current in core	kA	28.2
• in trefoil formation with single-side screen earthing or cross screen earthing A 563 • plane with double-side screen earthing A 591 • plane with single-side screen earthing or cross screen A 649 earthing B A 649 Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing A 440 • in trefoil formation with single-side screen earthing or cross screen earthing A 455 • cross screen earthing A 428 • plane with double-side screen earthing or cross screen A 476 earthing A 476 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 1216 Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) kg/km 6650 Rated factory cable length and gross weight of t	Permissible continious current rating by aerial laying *		
ross screen earthing plane with double-side screen earthing or cross screen plane with single-side screen earthing or cross screen pearthing 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 earthing plane with double-side screen earthing or cross screen plane with single-side screen earthing or cross screen plane	in trefoil formation with double-side screen earthing	Α	549
 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 double-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 1216 Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) kg/km 6650 Rated factory cable length and gross weight of the delivery on the drums *** # 22УД-60: 319 · 3.0 on the drums *** # 25УД-90: 443 · 4.5 	in trefoil formation with single-side screen earthing or	Α	563
 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 Continious in emergency operation in emergency operation at short circuit C +250 Operating temperature range C -60 +50 Minimum bending radius by laying mm 1216 Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) kg/km 6650 Rated factory cable length and gross weight of the delivery on the drums *** # 25yД-90: 443 · 4.5 	cross screen earthing		
earthing Permissible continious current rating by burial * • in trefoil formation with double-side screen earthing	plane with double-side screen earthing	Α	591
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 · in emergency operation · at short circuit Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** mm 76 Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 25УД-90: 443 · 4.5	plane with single-side screen earthing or cross screen	Α	649
 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 plane with single-side screen earthing plane with single-side screen earthing plane with single-side screen earthing or A 455 428 476 476 476 476 476 470 <l< td=""><td>earthing</td><td></td><td></td></l<>	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 ・ 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 *** * A 428 428 476 476 476 * C +90 * C +90 * C +130 * C +250 Operating temperature range * C -60 +50 * mm 1216 Rated outer diameter of the cable (for reference) ** * mm 76 Cable weight (approximate) * kg/km 6650 Rated factory cable length and gross weight of the delivery on the drums *** # 22УД-60: 319 • 3.0 * # 25УД-90: 443 • 4.5	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 +90 • in emergency operation • at short circuit • C +250 Operating temperature range Minimum bending radius by laying Rated outer diameter of the cable (for reference) ** Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** # 25УД-90: 443 • 4.5	 in trefoil formation with double-side screen earthing 	Α	440
• 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 428 428 428 476 476 476 476 476 476 476 47	 in trefoil formation with single-side screen earthing or 	Α	455
· 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) ** Cable weight (approximate) Rated factory cable length and gross weight of the delivery on the drums *** A 476 476 476 476 476 476 476 476	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 layingmm1216Rated outer diameter of the cable (for reference) **mm76Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the deliverym, t# 22УД-60: 319 · 3.0on the drums ****# 25УД-90: 443 · 4.5	 plane with double-side screen earthing 	Α	428
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 layingmm1216Rated outer diameter of the cable (for reference) **mm76Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the deliverym, t# 22УД-60: 319 • 3.0on the drums ****# 25УД-90: 443 • 4.5	 plane with single-side screen earthing or cross screen 	Α	476
· Continious° C+90• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1216Rated outer diameter of the cable (for reference) **mm76Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the deliverym, t# 22УД-60: 319 • 3.0on the drums ***# 25УД-90: 443 • 4.5	earthing		
• in emergency operation° C+130• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1216Rated outer diameter of the cable (for reference) **mm76Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the delivery on the drums ***m, t# 22УД-60: 319 • 3.0	Maximum permissible conductor temperature		
• at short circuit° C+250Operating temperature range° C-60 +50Minimum bending radius by layingmm1216Rated outer diameter of the cable (for reference) **mm76Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the delivery on the drums ***m, t# 22УД-60: 319 • 3.0	Continious		+90
Operating temperature range°C-60 +50Minimum bending radius by layingmm1216Rated outer diameter of the cable (for reference) **mm76Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the delivery on the drums ***m, t# 22УД-60: 319 • 3.0	 in emergency operation 	°C	+130
Minimum bending radius by layingmm1216Rated outer diameter of the cable (for reference) **mm76Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the delivery on the drums ***m, t# 22УД-60: 319 • 3.0# 25УД-90: 443 • 4.5	• at short circuit		+250
Rated outer diameter of the cable (for reference) **mm76Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the deliverym, t# 22УД-60: 319 • 3.0on the drums ***# 25УД-90: 443 • 4.5	Operating temperature range	°C	-60 +50
Cable weight (approximate)kg/km6650Rated factory cable length and gross weight of the deliverym, t# 22УД-60: 319 • 3.0on the drums ***# 25УД-90: 443 • 4.5		mm	1216
Rated factory cable length and gross weight of the delivery m, t # 22УД-60: 319 • 3.0 on the drums *** # 25УД-90: 443 • 4.5	Rated outer diameter of the cable (for reference) **	mm	76
on the drums *** # 25УД-90: 443 • 4.5	Cable weight (approximate)	kg/km	6650
• •	, , ,	m, t	• •
# 26УД-100: 664 • 6.2	on the drums ***		• •
			# 26УД-100: 664 • 6.2

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 %



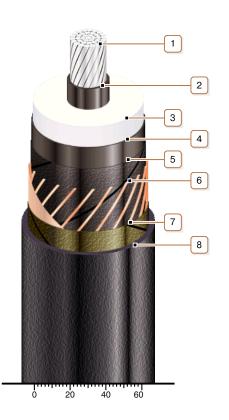




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АПвЭгП-132 1x300 ТУ У 31.3-00214534-060:2011

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



CONSTRUCTION

- 1. Aluminium multiwire compacted 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 nonwoven cloth tape
- 8. Outer sheath of polyethylene or polyethylene copolymer

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