







ПвЭгаП-132 1x1600 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 2r (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-132 1х1600/95 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-132 1х1600/95 (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-132 1х1600/95 (г) ТУ У 31.3-00214534-060:2011









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TECHNICAL SPECIFICATIONS

Maximum voltage Conductor rated area mm² Minimum screen cross-section Partial discharge factor for rated voltage, not more than Pc 6 Permissible short circuit current across the screen of Maximum permissible short-circuit current in core 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 cross screen earthing	32 45 600 5 4.2 29 602 982
Conductor rated area mm² 16 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 14 minimum cross-section Maximum permissible short-circuit current in core kA 22 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 16 • in trefoil formation with single-side screen earthing or Cross screen earthing	600 5 4.2 29 602 982
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 14 minimum cross-section Maximum permissible short-circuit current in core kA 22 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 16 • in trefoil formation with single-side screen earthing or cross screen earthing	5 4.2 29 602 982
Partial discharge factor for rated voltage, not more than pC 6 Permissible short circuit current across the screen of kA 14 minimum cross-section Maximum permissible short-circuit current in core kA 22 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 16 • in trefoil formation with single-side screen earthing or Cross screen earthing	4.2 29 602 982
Permissible short circuit current across the screen of minimum cross-section Maximum permissible short-circuit current in core kA 22 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 16 • in trefoil formation with single-side screen earthing or Cross screen earthing	29 602 982
minimum cross-section Maximum permissible short-circuit current in core kA 22 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 16 • in trefoil formation with single-side screen earthing or Cross screen earthing	29 602 982
Maximum permissible short-circuit current in core kA 22 Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 16 • in trefoil formation with single-side screen earthing or Cross screen earthing	602 982
Permissible continious current rating by aerial laying * • in trefoil formation with double-side screen earthing A 16 • in trefoil formation with single-side screen earthing or A 19 cross screen earthing	602 982
 in trefoil formation with double-side screen earthing in trefoil formation with single-side screen earthing or cross screen earthing A 16 15 16	982
• in trefoil formation with single-side screen earthing or A 19 cross screen earthing	982
cross screen earthing	
	379
• plane with double-side screen earthing Δ 15	379
plane with double side solven earthing	0.0
• plane with single-side screen earthing or cross screen A 23	364
earthing	
Permissible continious current rating by burial *	
• in trefoil formation with double-side screen earthing A 10	092
• in trefoil formation with single-side screen earthing or A 14	424
cross screen earthing	
• plane with double-side screen earthing A 86	65
• plane with single-side screen earthing or cross screen A 15	524
earthing	
Maximum permissible conductor temperature	
	90
	130
• at short circuit °C +2	250
Operating temperature range °C -6	60 +50
	744
Rated outer diameter of the cable (for reference) ** mm 10	09
<u> </u>	3450
	30УД-130: **** 304 · 10.0
on the drums ***	

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 $\pm\,7\,\%$

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



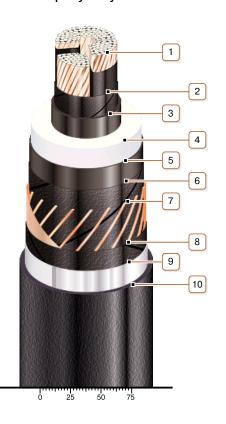




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CONSTRUCTION

- 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