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ПвЭВнгд(к)-30 3х240 ТУ У 31.3-00214534-017-2003



Three core power cables with copper conductors, XLPE-insulated, core-filled with bundles, with outer sheath of PVC compound, flame retardant, with low smoke and gas emission

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in premises, tunnels, ducts, mines, dry soil and outdoor under shelter
- $\boldsymbol{\cdot} \text{ in bunches}$

• at sites, where low smoke and gas emission are required (NPP, subway, large industrial facilities, high-rise buildings, etc.)

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example:

ПвЭВнгд(к)-30 3х240/25 (ОМ) ТУ У 31.3-00214534-017-2003

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 conductors. Order entry example:

ПвЭВнгд(к)-30 3х240/25 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ132121000 Products of this mark meet the requirements:

single wire cable flame retardance

• bunched cable flame retardance category B

• toxicity class Tk2 of the combustion products of nonmetallic elements (toxicity index from 40 up to 120 g/m³)

• class $\[mu]T\kappa 1$ on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)

• class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class Kx1 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10 μ S/mm)





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TECHNICAL SPECIFICATIONS

kV mm ² mm mm ² kA	30 36 3 x 240 8 25 5.1 34.3
mm ^² mm mm ^² kA	3 x 240 8 25 5.1
mm mm² kA	8 25 5.1
mm² kA	25 5.1
kA	5.1
kA	34.3
kA	34.3
А	415
А	340
рС	6
°C	+90
°C	+130
°C	+250
°C	-50 +50
°C	-25 +65
mm	1488
mm	93
g/km	11750
m, t	# 25УД-90: 283 • 4.9
	# 26УД-100: 433 • 6.9
	# 30УД-130: 606 • 10.0
	A pC °C °C °C °C °C mm mm g/km m, t

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 1.5 °K • m/W, laying depth in the ground 0.8 m, shields are grounded at both ends of the line

** The external diameter may differ from the rated up to \pm 10 %

*** Отклонение фактической массы брутто от указанного значения может составлять ± 7 %

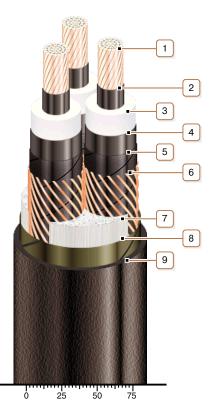




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CONSTRUCTION

- 1. Copper multiwire compact 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. Interstitial filler with polypropylene bundles
- 8. Lapping layer of glass tape
- 9. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated