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ПвВГнгд 5х4-1 ТУ У 31.3-00214534-018-2003

Power cables with copper conductors, XLPE-insulated, with low fire-risk PVC-compound outer sheath

Cables are used for laying:

- · in bunches
- · in premises, dry ducts and tunnels, in corrosive environment
- · in bunches, in crowded places

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123121000

Products of this mark meet the requirements:

- · single wire cable flame retardance
- bunched cable flame retardance category A
- toxicity class Tk3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m3)
- class $\Delta T \kappa 1$ 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 $K\kappa 1$ 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)

TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm²	5 x 4
Phase insulation thikness	mm	0.7
Permissible continious current rating (AC of industrial frequence	cy) *	
• by aerial laying	Α	41
• by burial	Α	48
Maximum permissible conductor temperature		
Continious	°C	+90
in emergency operation	°C	+130
• at short circuit	°C	+250
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	127.5
Rated outer diameter of the cable (for reference) **	mm	17
Cable weight (approximate)	kg/km	440
Rated factory cable length and gross weight of the delivery	m, t	# 12: 1130 • 0.6
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: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K • m/W, laying depth in the soil 0.7 m

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



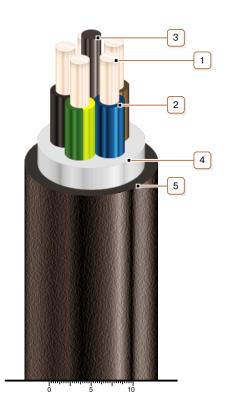




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CONSTRUCTION

- 1. Copper conductor
- 2. XLPE insulation
- 3. Low fire-risk PVC-compound bundle
- 4. Low fire-risk PVC-compound inner sheath
- 5. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated