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ПвЭКВнг-6 3х50 ТУ У 31.3-00214534-017-2003



Three-core power cables with copper conductors, flame-retardant, with XLPE, steel-wire armoured, with PVC compound outer sheath

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in places, where mechanical impacts on cable are possible, including tensile forces
- · in premises, tunnels, ducts, mines, dry soil and outdoor under shelter
- in bunches

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example: $\Pi_B \Im KB_{H\Gamma}$ -6 3x50/16 (OM) TY Y 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: $\Pi B \Im K B H \Gamma - 6 3 \times 50/16$ (Γ) TY Y 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ120000000 Products of this mark meet the requirements:

- · single wire cable flame retardance
- bunched cable flame retardance category A





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TECHNICAL SPECIFICATIONS

Rated voltage	kV	6
Maximum voltage	kV	7.2
Number and rated area of conductors	mm²	3 x 50
Insulation thikness	mm	2.5
Minimum screen cross-section	mm²	16
Permissible short circuit current across the screen of	kA	3.3
minimum cross-section		
Maximum permissible short-circuit current in core	kA	7.2
Permissible continious current rating *		
by aerial laying	А	205
• by burial	А	181
Partial discharge factor for rated voltage, not more than	рС	6
Maximum permissible conductor temperature		
Continious	°C	+90
in emergency operation	°C	+130
at short circuit	°C	+250
Operating temperature range (in climate version NF)	°C	-50 +50
Operating temperature range (in climate version T)	°C	-25 +65
Minimum bending radius by laying	mm	848
Rated outer diameter of the cable (for reference) **	mm	53
Cable weight (approximate)	kg/km	5350
Rated factory cable length and gross weight of the delivery	m, t	# 18аУД-40: 534 • 3.4
on the drums ***		# 20аУД-60: 648 • 4.2
		# 25УД-90: 1068 • 7.3
Natao		

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 %

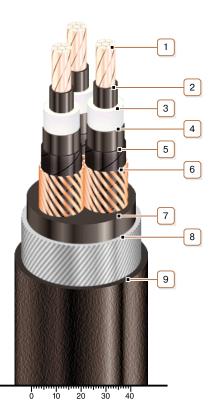




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CONSTRUCTION

1. Copper multiwire compact conductor

Note: It is possible to manufacture cable with sealed conductors.

- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape
- 6. Copper screen
- 7. Extruded filling of PVC compound
- 8. Round galvanized steel-wire armour
- 9. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated