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СБвШнгд 3х50(ож)-1 ТУ У 27.3-00214534-091:2017



Power cables with copper conductors, with impregnated paper insulation, lead-sheathed, steel-tape armoured, with low-flammable PVC-compound protection hose

Cables are used for laying:

• in dry premises (tunnels), ducts, cable cellars, mines, collectors, industrial and other premises, including damp, partially flooded premises, environment with medium and high corrosivenes

- in fire-risk premises
- on special cable bridges

• with a risk of mechanical damage and no tensile forces in operation

• at sites, where low smoke and gas emission are required in the process of combustion and smouldering: NPP, electrical generating stations, subway, high-rise buildings, large industrial facilities and etc.

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 $\[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 K κ 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)





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TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm²	3 x 50
Insulation thikness between conductors	mm	1.5
Insulation thikness of conductor-sheath	mm	1.25
Sheath thikness	mm	1.15
Permissible continious current rating *		
• by aerial laying	А	195
• by burial	А	200
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	480
Level difference along the laying rout, not more than	m	20
Metal shaeth outer diameter (for reference only)	mm	20
Rated outer diameter of the cable (for reference) **	mm	32
Cable weight (approximate)	kg/km	3250
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16: 370 • 1.5

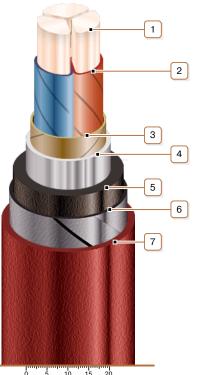
Notes:

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 %



CONSTRUCTION

- 1. Copper conductor
- 2. Impregnated paper insulation
- 3. Belt insulation
- 4. Lead sheath
- 5. Bedding with PVC compound moulded-in hose
- 6. Double galvanized steel-tape armour
- 7. Pressed off low fire-risk PVC compound protection hose

Note: Conductor twisting is not illustrated