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# КМПвВЭВнгд 7х0.5 ТУ У 27.3-00214534-084:2016

Compact cables with copper conductors, XLPE-insulated, sheathed with low risk-of-fire PVC composition, with collective screen, with protective covering made of low risk-of-fire PVC composition

For the cable of this mark correspond the foreign-made analogues: KMПвВЭВнг-LS (RU) Used:

• for the installation of control circuits, alarm system, communications, interinstrument connections operating at AC voltage of 500 V or 1000 V with frequency no more than 200 kHz, or at a constant voltage of 750 V or 1000 V, respectively

• for multi-cable installation (acc. GOST 31565:2012) in cable channels and premises of internal electrical installations, including nuclear power stations (NPS) outside the under containment zone

• for use in systems having security class 3 (B), 3 (C) and 4 according to the classification of H $\Pi$  306.2.141-2008 and H $\Pi$  306.2.202-2015

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/m<sup>3</sup>)

• class  $\[mu]T\kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/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  $\mu$ S/mm)





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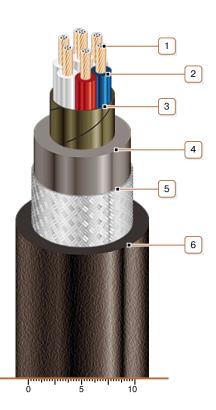
### **TECHNICAL SPECIFICATIONS**

Rated AC voltage of no more than 200 kHz	V	500; 1000	
Rated DC voltage	V	750; 1000	
Number and rated diameter of conductors	mm²	7 x 0.5	
Operating temperature range	°C	-50 +60	
Permissible continious conductors temperature	°C	+90	
Minimum bending radius by laying	mm	73	
Cable outer diameter (for reference only) **	mm	12.1	
Cable weight (approximate)	kg/km	234	
Notes:			

Notes:

When ordering it is neccesary to agree the factory length of the product with the manufacturer

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



## CONSTRUCTION

- 1. Copper multiwire conductor
- 2. XLPE insulation
- 3. Wrapping the core with glass tape or mica glass tape
- 4. Low fire-risk PVC-compound inner sheath
- 5. Collective screen tinned copper or copper wires braid
- 6. Outer sheath of low risk-of-fire polyvinylchloride (PVC) composition