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# КВВГЭнгд-FR 5x2.5 ТУ У 31.3-00214534-055:2006



Control screened flame-retardant flame-resistant cables with copper conductors, low fire-risk PVC compound insulation, PVC compound sheath, low smoke and gas emission

Cables are used for laying:

- in premises, dry ducts and tunnels, in corrosive environment
- with no risk of mechanical damage in operation
- in bunches, in crowded places

power supply cable lines of NPP safety system equipment, circuits wiring of fire safety systems (fire alarm circuits, power supply of fire-fighting pumps, lightning of emergency exits and evacuation routes, smoke exhaust and blowing ventilation systems, evacuation elevators); for wiring in hospital surgical wings, emergency and equipment (current collectors) power supply circuits, operating in a fire emergency
with the need to protect from the effects of external electric fields

Manufacturing of extruded fire-resistant barrier is possible

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ123121080 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)

• flame-resistant class FE180 under fire conditions with a temperature not less than 750 °C





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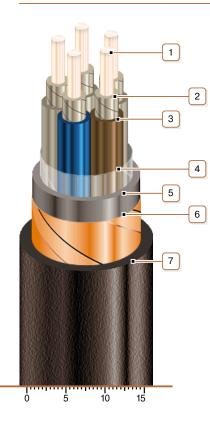
### **TECHNICAL SPECIFICATIONS**

Rated voltage (AC / DC)	V	660 / 1000
Number and rated area of conductors	mm²	5 x 2.5
Minimum bending radius by laying	mm	108
Cable outer diameter (for reference only) **	mm	18
Cable weight (approximate)	kg/km	530
Rated factory cable length and gross weight of the delivery	m, t	# 12: 1010 · 0.6
on the drums ***		

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 conductor
- 2. Fire-resistant barrier

Note: Manufacturing of extruded fire-resistant barrier is possible

- 3. Low fire-risk PVC compound insulation
- 4. PET film winding
- 5. Low fire-risk PVC-compound inner sheath
- 6. Copper screen
- 7. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated