



Power, control and managing cables in insulation and sheath of PVC compound of low fire hazard of VVGng-LS, VVGng-FRLS, VVGEng-LS, VVGEng-FRLS, KVVGng-LS, KVVGng-FRLS, KVVGEng-LS, KVVGEng-FRLS, KUGVVng-LS, KUGVVng-FRLS, KUGVEVng-LS, KUGVEVng-FRLS, KUGVVEng-LS, KUGVVEng-FRLS



Technical specification of Ukraine
TY Y 27.3-00217099-047:2013

Application

Cables are intended for group laying of cable lines in the cable facilities and areas of internal electrical installations, including nuclear-power engineering facilities, outside the containment area.

Design

Current-carrying conductors

For the cables of VVGng-LS, VVGng-FRLS, VVGEng-LS, VVGEng-FRLS, KVVGng-LS, KVVGng-FRLS, KVVGEng-LS, KVVGEng-FRLS up to 10 mm² in cross-section, of 1st class, from 16 mm² to 240 mm² in cross-section – of 2nd class.

For the cables of KUGVVng-LS, KUGVVng-FRLS, KUGVEVng-LS, KUGVEVng-FRLS, KUGVVEng-LS, KUGVVEng-FRLS of 4th class or higher.

Insulation

PVC compound of low fire hazard

Sheath

PVC compound of low fire hazard

Screen

- as braid of copper wires for the cables of KUGVEVng-LS, KUGVEVng-FRLS;
- of copper tape or copper foil for the cables of VVGEng-LS, VVGEng-FRLS types

Screen as lapping of copper foil, copper tape or aluminium foil of nominal thickness from 0,10 mm to 0,15mm or of foil-coated tape with aluminium of nominal thickness not less than 20 µm is lapped over separation layer of the cables of KVVGng-LS, KVVGng-FRLS types.

Cable Type	Number of the conductors	Rated cross-section of the conductors mm ²	Operating voltage kB U ₀ /U (Um)
VVGng-LS, VVGng-FRLS, VVGEng-LS, VVGEng-FRLS	1 - 5	1,5 - 240	0,6/1,0 (1,2)
KVVGng-LS, KVVGng-FRLS, KVVGEng-LS, KVVGEng-FRLS	4, 5, 7, 10, 14, 19, 27, 37, 52	0,75 - 2,5	0,38/0,66
	4, 7, 10	4, 6	
KUGVVng-LS, KUGVVng-FRLS, KUGVEVng-LS, KUGVEVng-FRLS, KUGVVEng-LS, KUGVVEng-FRLS	7, 14, 24, 37, 61	0,35	0,22/0,38
	7, 14, 24, 37	0,35; 0,50	
	7, 14, 24, 37, 61	0,35; 0,50	

Note 1. U⁰ – rated voltage between current-carrying conductor and earth or metall screen. U - rated voltage between the current-carrying conductors.

Um – maximum voltage, under which the cable can be operated.

Note 2. By agreement between the purchaser and the manufacturer it is possible to manufacture cables with a number of conductors, nominal cross-section and an operating voltage, which are not shown in the table.

Cables are resistant to the exposure factors:

- ambient temperature change from -50°C to +60°C. It is admissible exposure to the ambient temperature of 75 degree Centigrade within not more than 5 hours.
- relative air humidity under the temperature of 35°C is 98%;
- Cables performed in tropicalized construction are resistant to the exposure of mould fungi

Warranty period:

- for power cables is 5 years;
- for control and power cables is 3 years.