7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
E-mail: market@yuzhcable.com.ua

180135-130160110100

АПвВГнгд 3х16+1х10 (ож)-1
ТУ У 31.3-00214534-018-2003

Power cables with aluminium conductors, XLPE-insulated, with low fire-risk PVC-compound outer sheath

Cables are used for laying:
- *in bunches*
- *in premises, dry ducts and tunnels, in corrosive environment*
- *in bunches, in crowded places*

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 Тк3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m^3)*
- *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m^2/kg)*
- *class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)*
- *corrosive class Кк1 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 μS/mm)*

TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm^2	3 x 16 + 1 x 10
Phase insulation thikness	mm	0.7
Permissible continious current rating (AC of industrial frequency) *		
• *by aerial laying*	A	78
• *by burial*	A	87
Maximum permissible conductor temperature		
• *Continious*	˚C	+90
• *in emergency operation*	˚C	+130
• *at short circuit*	˚C	+250
Operating temperature range	˚C	-50 ... +50
Minimum bending radius by laying	mm	165
Rated outer diameter of the cable (for reference) **	mm	22
Cable weight (approximate)	kg/km	570
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 14: 1300 • 0.9

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 ± 10 %*

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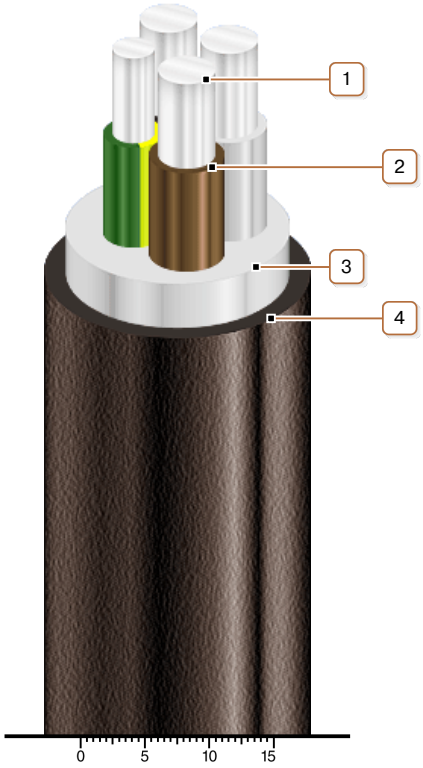

CONSTRUCTION

1. Aluminium conductor
2. XLPE insulation
3. Low fire-risk PVC-compound inner sheath
4. Low fire-risk PVC compound outer sheath

Note: Conductor twisting is not illustrated

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