



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

## ВКВнг 4x10-1 ТУ У 31.3-00214534-016-2003

Power cables with copper conductors, with PVC-compound insulation, galvanized steel-wire armoured, with low-flammable PVC-compound outer sheath

Cables are used for laying:

- in bunches
- · in premises, dry ducts and tunnels, in corrosive environment
- in places, where intense tensile forces are possible (in cable lifting, in bulk, heaving, boggy, everfrost soils)

Manufacturing of cables with a different number and different design of conductors is possible Manufacturing of single-phase cables with aluminium-wire armour is possible

Fire safety code in accordance with ДСТУ 4809:2007: ПБ130000000

- Products of this mark meet the requirements:
- single wire cable flame retardance
- bunched cable flame retardance category B

## **TECHNICAL SPECIFICATIONS**

Detectualtage	1.47	4
Rated voltage	kV	
Number and rated area of conductors	mm²	4 x 10
Phase insulation thikness	mm	1
Armor wire diameter	mm	1.4
Permissible continious current rating (AC of industrial frequency	/) *	
• by aerial laying	А	58
• by burial	А	73
Maximum permissible conductor temperature		
Continious	°C	+70
at short circuit	°C	+160
Operating temperature range	°C	-50 +50
Minimum bending radius by laying	mm	138
Rated outer diameter of the cable (for reference) **	mm	23
Cable weight (approximate)	kg/km	1230
Rated factory cable length and gross weight of the delivery	m, t	# 14: 1090 • 1.5
on the drums ***		
Notes:		

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

\* Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors 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 %



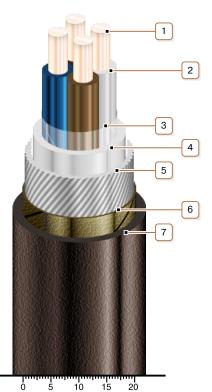


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## **CONSTRUCTION**

- 1. Copper conductor
- 2. PVC compound insulation
- 3. PET film winding
- 4. PVC compound belt insulation

5. Round galvanized steel-wire armour Note: Manufacturing of single-phase cables with aluminium-wire armour is possible

- 6. Lapping layer of nonwoven cloth tape
- 7. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated