





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

### ПвЭоВнг(к)-20 3х150 ТУ У 31.3-00214534-017-2003

Three-core power cables with copper conductors, flame-retardant, with XLPE, collective screen and PVC compound outer sheath

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in premises, tunnels, ducts, mines, dry soil and outdoor under shelter
- · in bunches

It is possible to manufacture cables with an integrated fiber-optic module.

Order entry example:

ПвЭоВнг(к)-20 3х150/50 (ОМ) ТУ У 31.3-00214534-017-2003

In conjunction with the DTS system, the integrated fiber-optic module can act as a distributed cable line temperature sensor.

It is possible to manufacture cable with sealed conductors.

Order entry example:

ПвЭоВнг(к)-20 3х150/50 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ130000000

Products of this mark meet the requirements:

- · single wire cable flame retardance
- · bunched cable flame retardance category B







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### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	20
Maximum voltage	kV	24
Number and rated area of conductors	mm²	3 x 150
Insulation thikness	mm	5.5
Minimum screen cross-section	mm²	50
Permissible short circuit current across the screen of	kA	10.2
minimum cross-section		
Maximum permissible short-circuit current in core	kA	21.5
Permissible continious current rating *		
by aerial laying	Α	398
• by burial	Α	334
Partial discharge factor for rated voltage, not more than	рС	6
Maximum permissible conductor temperature		
Continious	° C	+90
in emergency operation	° C	+130
at short circuit	° C	+250
Operating temperature range (in climate version NF)	° C	-50 +50
Operating temperature range (in climate version T)	° C	-25 +65
Minimum bending radius by laying	mm	1136
Rated outer diameter of the cable (for reference) **	mm	71
Cable weight (approximate)	kg/km	8620
Rated factory cable length and gross weight of the delivery	m, t	# 22УД-60: 339 • 3.8
on the drums ***		# 25УД-90: 583 • 6.6
Notae		

#### Notes:

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

<sup>\*</sup> Long permissible current loads are calculated for the following conditions: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, load factor 1.0, thermal resistivity of soil 1.5 °K • m/W, laying depth in the ground 0.8 m, shields are grounded at both ends of the line

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

<sup>\*\*\*</sup> Отклонение фактической массы брутто от указанного значения может составлять  $\pm\,7\,\%$ 



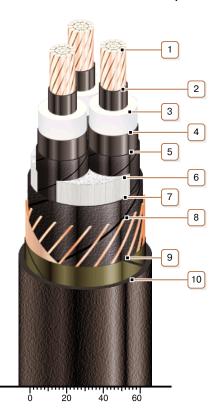




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### **CONSTRUCTION**

- 1. Copper multiwire compact conductor
- Note: It is possible to manufacture cable with sealed conductors.
- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape
- 6. Interstitial filler with polypropylene bundles
- 7. Lapping layer of semiconductive swellable tape
- 8. Copper screen
- 9. Lapping layer of glass tape
- 10. Low flammable PVC compound outer sheath

Note: Conductor twisting is not illustrated