



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

## ПвЭогВнг-20 3х50 ТУ У 31.3-00214534-017-2003



Three-core power cables with copper conductors, flame-retardant, with XLPE, collective screen, with longitudinal sealing 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: ПвЭогВнг-20 3x50/35 (OM) ТУ У 31.3-00214534-017-2003 In conjunction with the DTS system, the integrated fiber-optic module can act as a

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:  $\Pi B \Im Or B H r - 20 3 x 50/35$  (r) TY Y 31.3-00214534-017-2003

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





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#### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	20
Maximum voltage	kV	24
Number and rated area of conductors	mm²	3 x 50
Insulation thikness	mm	5.5
Minimum screen cross-section	mm²	35
Permissible short circuit current across the screen of	kA	7.1
minimum cross-section		
Maximum permissible short-circuit current in core	kA	7.2
Permissible continious current rating *		
• by aerial laying	А	204
• by burial	А	181
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	1008
Rated outer diameter of the cable (for reference) **	mm	63
Cable weight (approximate)	kg/km	4470
Rated factory cable length and gross weight of the delivery	m, t	# 22УД-60: 450 • 2.9
on the drums ***		# 25УД-90: 771 • 5.0
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: 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

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

\*\*\* Отклонение фактической массы брутто от указанного значения может составлять  $\pm$  7 %



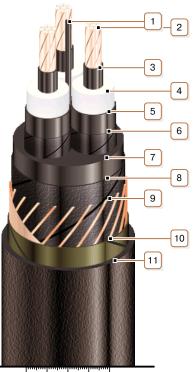


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#### 10 20 30

#### CONSTRUCTION

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

Note: Conductor twisting is not illustrated