105802-150030000300

ПвЭБВнг-15 3x300
ТУ У 31.3-00214534-017-2003

Three-core power cables with copper conductors, flame-retardant, with XLPE, steel-tape armoured, with PVC compound outer sheath

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:
- *in places, where mechanical impacts on cable are possible, except tensile forces*
- *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:
ПвЭБВнг-15 3x300/25 (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.

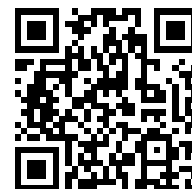It is possible to manufacture cable with sealed conductors.
Order entry example:
ПвЭБВнг-15 3x300/25 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ120000000
Products of this mark meet the requirements:
- *single wire cable flame retardance*
- *bunched cable flame retardance category A*

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PRODUCTION GUIDE

7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
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TECHNICAL SPECIFICATIONS

Rated voltage	kV	15
Maximum voltage	kV	17.5
Number and rated area of conductors	mm^2	3 x 300
Insulation thikness	mm	4.5
Minimum screen cross-section	mm^2	25
Permissible short circuit current across the screen of minimum cross-section	kA	5.1
Maximum permissible short-circuit current in core	kA	42.9
Permissible continious current rating *		
· by aerial laying	A	599
· by burial	A	482
Partial discharge factor for rated voltage, not more than	pC	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	1392
Rated outer diameter of the cable (for reference) **	mm	87
Cable weight (approximate)	kg/km	15520
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 25УД-90: 396 · 7.7 # 26УД-100: 457 · 8.9 # 30УД-130: **** 460 · 10.0

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 ℃, air temperature 30 ℃, soil temperature 20 ℃, 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

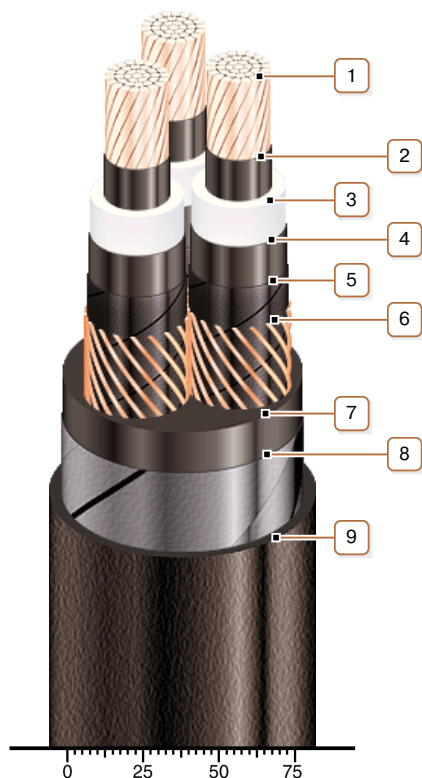*** The external diameter may differ from the rated up to ± 10 %*

*** Отклонение фактической массы брутто от указанного значения может составлять ± 7 %

**** Option delivery on not full drum

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CONSTRUCTION

1. *Copper multiwire compact conductor*

2. *Inner extruded semiconducting layer*

3. *XLPE insulation*

4. *Outer extruded semiconducting layer*

5. *Lapping layer of semiconductive swellable tape*

6. *Copper screen*
Note: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor

7. *Extruded filling of PVC compound*

8. *Double galvanized steel-tape armour*

9. *Low flammable PVC compound outer sheath*

Note: Conductor twisting is not illustrated