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# АПвЭогВнг-35 3x50 ТУ У 31.3-00214534-017-2003

Three-core power cables with aluminium 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:

АПвЭогВнг-35 3х50/35 (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:

АПвЭогВнг-35 3х50/35 (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**

kV	35
kV	42
mm²	3 x 50
mm	8.6
mm²	35
kA	7.1
kA	4.7
Α	158
Α	140
рС	6
°C	+90
° C	+130
° C	+250
° C	-50 +50
°C	-25 +65
mm	1232
mm	77
kg/km	5180
m, t	# 25УД-90: 443 • 3.9
	kV mm² mm mm² kA  kA  A A pC  ° C ° C ° C ° C mm mm kg/km

#### Notes:

When ordering it is necessary 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  $\pm\,7\,\%$ 



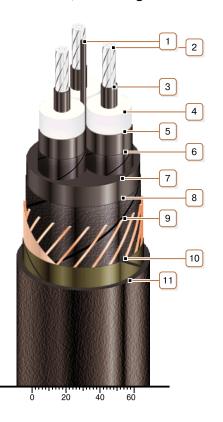




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### CONSTRUCTION

- 1. Central polyethylene bundle
- 2. Aluminium multiwire compacted 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