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### АПвАПнг-35 1х95 ТУ У 27.3-00214534-092:2016

Single-core power cables with aluminium conductors, XLPE-insulated, aluminium sheathed, with outer shell made of polymer composition, flame retardant

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in places, where small mechanical impacts on cable are possible, including tensile forces
- in premises, tunnels, ducts, mines, dry soil and outdoor under shelter
- single laying

It is possible to manufacture cables with extruded semiconductor layer along outer sheath.

Order entry example:

АПВАПНГ-П-35 1х95/16 ТУ У 27.3-00214534-092:2016

An extruded semiconductor layer along outer sheath ensures the correct testing of cable line with sections of underground laying in polymer pipes.

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

Order entry example:

АПВАПнг-35 1х95/16 (ОМ) ТУ У 27.3-00214534-092:2016

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

Cables with copper screen can also be manufactured

It is possible to manufacture cable with

Order entry example:

АПвАПнг-35 1х95/16 (ожк) ТУ У 27.3-00214534-092:2016

It is possible to manufacture cable with sealed conductor.

Order entry example:

АПВАПнг-35 1х95/16 (г) ТУ У 27.3-00214534-092:2016

It is possible manufacturing of cables in versions (A) and (B), flame-retardant when laying in bunches

Fire safety code in accordance with ДСТУ 4809:2007: ΠБ101122000

Products of this mark meet the requirements:

- · single wire cable flame retardance
- toxicity class Tk1 of the combustion products of nonmetallic elements (toxicity index from 13 up to 40 g/m³)
- class  $\Pi T \kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)
- class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)
- corrosive class Kk2 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH more than 4.3, specific conductivity less than 10  $\mu$ S/mm)







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### **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	35
Maximum voltage	kV	42
Number and rated area of conductors	mm²	1 x 95
Insulation thikness	mm	8.6
Sheath thikness	mm	1.5
Permissible short circuit current across the screen	kA	13.20
Maximum permissible short-circuit current in core	kA	8.9
Permissible continious current rating *		
by aerial laying in trefoil formation	Α	280
• by aerial flat laying	Α	338
• by burial in trefoil formation	Α	221
• by burial flat	Α	229
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	°C	-60 +50
Minimum bending radius by laying	mm	1025
Rated outer diameter of the cable (for reference) **	mm	41
Cable weight (approximate)	kg/km	1940
Rated factory cable length and gross weight of the delivery	m, t	# 18аУД-40: 903 · 2.3
on the drums ***		# 20aУД-60: 1026 • 2.7
		# 22УД-60: 1056 • 3.0

#### 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, thermal resistivity of soil 1.5 °K • m/W, laying depth in the soil 0.8 m, while laying in flat formation the distance between cables in clear is equal to the cable diameter, while laying in trefoil formation cables are laid side by side, shields are earthed on 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 ± 7 %



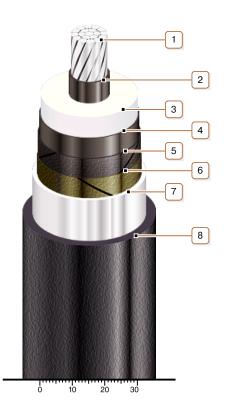




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### **CONSTRUCTION**

# 1. Aluminium multiwire compacted conductor

- It is possible to manufacture cable with a single-wire conductor
- · It is possible to manufacture cable with sealed conductor.
- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape
- 6. Lapping layer of semiconductive tape
- 7. Aluminium sheath
- 8. Flame-retardant polymer compound outer sheath

Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath

Note: Cables with copper screen can also be manufactured