



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

АПвЭКПнг-HF-10 3x35 ТУ У 31.3-00214534-058:2007



Three-core power cables with aluminium conductors, flame-retardant and halogen-free, with XLPE, steel-wire armoured, with polymer 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, including tensile forces
- in premises, tunnels, ducts, mines, dry soil and outdoor under shelter

• at sites, where low smoke and corrosive gas emission are required (NPP, subway, large industrial facilities, high-rise buildings, etc.)

single laying

It is possible to manufacture cables with extruded semiconductor layer along outer sheath. Order entry example:

АПвЭКПнг-HF-П-10 3x35/16 ТУ У 31.3-00214534-058:2007

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:

АПвЭКПнг-HF-10 3x35/16 (ОМ) ТУ У 31.3-00214534-058:2007

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:

АПвЭКПнг-НF-10 3х35/16 (г) ТУ У 31.3-00214534-058:2007

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: ПБ102122000

Products of this mark meet the requirements:

• single wire cable flame retardance

• toxicity class Tk2 of the combustion products of nonmetallic elements (toxicity index from 40 up to 120 g/m³)

• class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke

formation from 50 to 500 m²/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 μ S/mm)





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TECHNICAL SPECIFICATIONS

ed voltage	kV	10
ximum voltage	kV	12
nber and rated area of conductors	mm²	3 x 35
ulation thikness	mm	3.4
imum screen cross-section	mm²	16
missible short circuit current across the screen of	kA	3.3
imum cross-section		
ximum permissible short-circuit current in core	kA	3.3
missible continious current rating *		
y aerial laying	А	133
y burial	А	119
tial discharge factor for rated voltage, not more than	рС	6
ximum permissible conductor temperature		
ontinious	°C	+90
emergency operation	°C	+130
t short circuit	°C	+250
erating temperature range	°C	-60 +50
imum bending radius by laying	mm	896
ed outer diameter of the cable (for reference) **	mm	56
ble weight (approximate)	kg/km	4770
ed factory cable length and gross weight of the delivery	m, t	# 22УД-60: 499 • 3.3
on the drums ***		# 20аУД-60: 619 • 3.6
		# 25УД-90: 1028 • 6.5

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 %



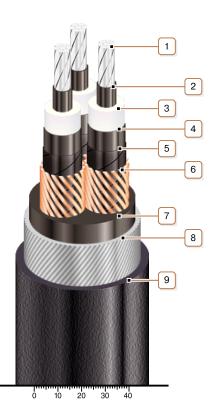


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CONSTRUCTION

- 1. Aluminium multiwire compacted 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. Copper screen
- 7. Extruded filling of PVC compound
- 8. Round galvanized steel-wire armour
- **9.** Polymer compound outer sheath:flame-retardant and halogen-free Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath

Note: Conductor twisting is not illustrated