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АПвЭСП-220 1х400 ТУ У 31.3-00214534-061:2008

Power cables with aluminium conductor, XLPE-insulated, with copper screen, lead-sheathed, with outer sheath of polyethylene

Technical cable requirements correspond to IEC 62067

Cables are used for laying:

- in places, where small mechanical impacts on cable are possible, including tensile forces
- · in soil (trenches) with high corrosiveness
- · in damp, partially flooded premises
- · in ground with high humidity
- · in wetlands
- · in non-navigable waters
- in the air, including cable structures, if provided the additional fire protection

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

Order entry example:

АПВЭСП-П-220 1х400/95 ТУ У 31.3-00214534-061:2008

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:

АПвЭСП-220 1x400/95 (ОМ) ТУ У 31.3-00214534-061:2008

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 conductor.

Order entry example:

АПВЭСП-220 1х400/95 (г) ТУ У 31.3-00214534-061:2008







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TECHNICAL SPECIFICATIONS

Rated voltage	kV	220	
Maximum voltage	kV	252	
Conductor rated area	mm²	400	
Sheath thikness	mm	3.3	
Partial discharge factor for rated voltage, not more than	рС	6	
Permissible short circuit current across the screen	kA	24.60	
Maximum permissible short-circuit current in core	kA	37.6	
Permissible continious current rating by aerial laying *			
in trefoil formation with double-side screen earthing	Α	642	
in trefoil formation with single-side screen earthing or	Α	658	
cross screen earthing			
plane with double-side screen earthing	Α	679	
plane with single-side screen earthing or cross screen	Α	743	
earthing			
Permissible continious current rating by burial *			
in trefoil formation with double-side screen earthing	Α	504	
in trefoil formation with single-side screen earthing or	Α	523	
cross screen earthing			
plane with double-side screen earthing	А	485	
plane with single-side screen earthing or cross screen	А	547	
earthing			
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	2350	
Rated outer diameter of the cable (for reference) **	mm	94	
Cable weight (approximate)	kg/km	17140	
Notes	- -		

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 1.0 °K • m/W, laying depth in the ground 1.5 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

^{**} The external diameter may differ from the rated up to \pm 10 %



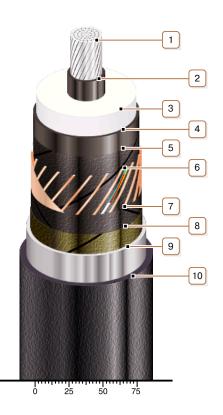




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CONSTRUCTION

- 1. Aluminium multiwire compacted conductor
 Note: 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. Copper screen with an integrated fiber-optic module (optional)
- 7. Lapping layer of semiconductive swellable tape
- 8. Lapping layer of semiconductive tape
- 9. Lead sheath
- 10. Outer sheath of polyethylene or polyethylene copolymer Note: It is possible to manufacture cable with extruded semiconductor layer along outer sheath