

АПвБбШп 4x50 (ож)-1 ТУ У 31.3-00214534-048:2007

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape armoured, with polyethylene protection hose

Cables are used for laying:

- *in premises, tunnels, collectors, in soil (trenches), in corrosive environment*
- *in places, where small mechanical impacts on cable are possible, including tensile forces*

Manufacturing of cable with multiwire conductors is possible

TECHNICAL SPECIFICATIONS

Rated voltage	kV	1
Number and rated area of conductors	mm ²	4 x 50
Phase insulation thickness	mm	1
Permissible continuous current rating (AC of industrial frequency) *		
• <i>by aerial laying</i>	A	146
• <i>by burial</i>	A	146
Maximum permissible conductor temperature		
• <i>Continuous</i>	°C	+90
• <i>in emergency operation</i>	°C	+130
• <i>at short circuit</i>	°C	+250
Operating temperature range	°C	-60 ... +50
Minimum bending radius by laying	mm	270
Rated outer diameter of the cable (for reference) **	mm	36
Cable weight (approximate)	kg/km	1420
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 16a: 780 • 1.4
		# 18: 890 • 1.7

Notes:

When ordering it is necessary to agree the factory length of the product with the manufacturer

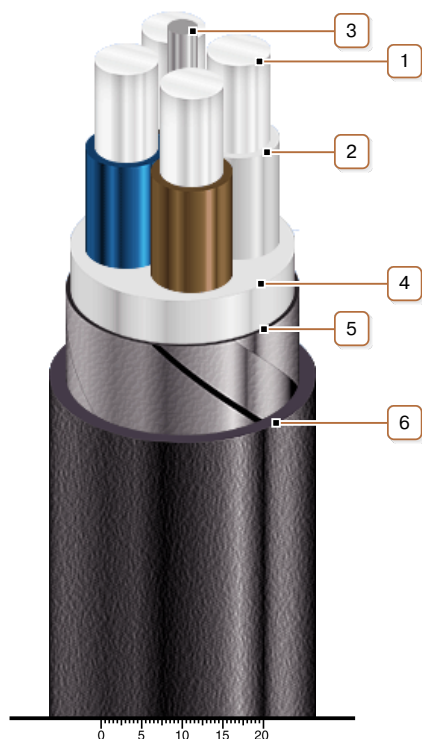
** Long permissible current loads are calculated during operation in four-wire networks with load in all the conductors for the following conditions: air temperature plus 25 °C, soil temperature plus 15 °C, thermal resistivity of soil 1.2 °K·m/W, laying depth in the soil 0.7 m*

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



АПвБбШп 4x50 (ож)-1 ТУ У 31.3-00214534-048:2007

Power cables with aluminium conductors, XLPE-insulated, galvanized steel-tape armoured, with polyethylene protection hose



CONSTRUCTION

1. Aluminium conductor
2. XLPE insulation
3. PVC compound bundle
4. PVC compound belt insulation
5. Double galvanized steel-tape armour
6. Pressed off polyethylene protection hose

Note: Conductor twisting is not illustrated