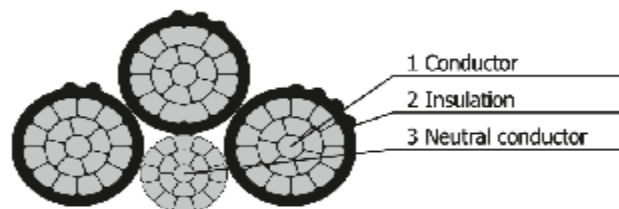


Production Association "Energoкомплект" Ltd.

Republic of Belarus, 210035, Vitebsk, Moscovskiy avenue, 94 B
 tel: +375212 48-72-42, 48-77-77; fax: +375212 48-74-77, 48-77-64
 UNP 300528652, OKPO 29001517, checking account 3012204716022
 in the main branch of JSCo. "Belinvestbank" in Vitebsk region,
 Vitebsk, Lenin street, 22/16



Cable AMKA

For overhead power distribution lines rated voltage 0,6/1 kV in AMKA system, for installation on poles, ducts.
 Auxillary cores for street lighting available. Not suitable for direct burial.

		1x16+25	3x16+25	3x25+35	3x35+50	3x50+70	3x70+95	
1.	Basic cable data							
1. 1	Type		AMKA					
1. 2	Standards		HD 626 S1:5D					
1. 3	Phases conductor design		Al, round, compacted					
1. 4	Annealed		YES					
1. 5	Messenger conductor design		AlMgSi, round, compacted					
1. 6	Annealed		YES					
1. 7	Nominal voltage Uo/U	kV	0,6/1					
1. 8	Highest permissible voltage	kV	1,2					
1. 9	Max. operating conductor temperature at normal operation	C	70					
1. 10	Max. operating conductor temperature at short circuit	C	135					
1. 11	UV resistivity of insulation		YES					
1. 12	Marking		SMOLKABEL AMKA <size> 0,6/1 kV <month/year> <0000>					
1. 13	Service life-time	years	30					
2.	Construction characteristics							
2. 1	Net weight of cable, nominal value	kg/km	140,5	287,4	404,7	560,9	758,1	1039,3
2. 2	Overall diameter whole cable (approx)	mm	14	22	25,4	29,5	33,6	39,2
2. 3	Overall effective diameter for wind load calculation	mm	11	20	23	27	31	36
2. 4	Number of wires in conductor		7	7	7	7	7	7
2. 5	Number of wires in messenger		7	7	7	7	7	7
2. 6	Min. diameter of phase core without insulation	mm	4,7	4,7	5,9	6,9	8,2	9,7
2. 7	Nom. diameter of phase core without insulation	mm	4,8	4,8	6	7	8,3	9,8
2. 8	Min. diameter of messenger core without insulation	mm	5,9	5,9	6,9	8,2	9,7	11,5

2. 9	Nom. diameter of messenger core without insulation	mm	6	6	7	8,3	9,8	11,6
2. 10	Cross-section of phase core without insulation	mm ²	16	16	25	35	50	70
2. 11	Cross-section of messenger	mm ²	25	25	35	50	70	95
2. 12	Min. diameter of phase core with insulation	mm	7,12	7,12	8,32	9,68	10,98	12,84
2. 13	Nom. diameter of phase core with insulation	mm	7,6	7,6	8,8	10,2	11,5	13,4
2. 14	Material of phase core insulation		PE (TIP-3), weather resistant, black					
2. 15	Min thickness of phase core insulation	mm	1,16	1,16	1,16	1,34	1,34	1,52
2. 16	Nom. thickness of phase core insulation	mm	1,4	1,4	1,4	1,6	1,6	1,8
2. 17	Min thickness of messenger insulation	mm	Bare					
2. 18	Nom. thickness of messengere insulation	mm						
2. 19	Identification for phase cores		Ridges, method G					
3.	Usage characteristics							
3. 1	Standard length	m	4500	3500	3000	2300	2000	1500
3. 2	Type of standard drum		T-16	T-18	T-18	T-20	T-20	T-20
3. 3	Weight of standard drum	kg	260	330	330	380	380	380
3. 4	Outer diameter of standard drum	mm	1600	1800	1800	2000	2000	2000
3. 5	Weight (cable+drum)	kg	693	990	1 027	1 309	1 348	1 355
4.	Mechanical characteristics							
4. 1	Min permissible bending radius at pulling in:							
4. 2	Cable	m	0,28	0,44	0,510	0,590	0,670	0,780
4. 3	Minimum permissible tensile strength of phase conductor	kN	1,96	1,96	3,01	4,2	5,98	8,4
4. 4	Minimum permissible tensile strength of messenger	kN	7,40	7,40	10,30	14,20	20,60	27,90
4. 5	Maximum permissible ambient temperature	C	40					
4. 6	Minimum permissible ambient temperature	C	-40					
4. 7	Lowest permissible installation temperature	C	-20					
5.	Electrical characteristics							
5. 1	Current carrying capacity at ambient temperature +25 oC and conductor temperatures +70 oC	A	75	70	95	115	140	180
5. 2	Maximum DC resistance of phase 20 oC	Ω/km	1,91	1,91	1,2	0,868	0,641	0,443
5. 3	Maximum DC resistance of messenger 20oC	Ω/km	1,380	1,380	0,986	0,720	0,493	0,363
5. 4	Maximum phase reactance	Ω/km	0,091	0,110	0,107	0,107	0,104	0,097
5. 5	Maximum messenger reactance	Ω/km	0,074	0,074	0,073	0,073	0,071	0,070
5. 6	Inductance	mH/km	0,29	0,35	0,34	0,34	0,33	0,31
5. 7	Frequency	Hz	50					
5. 8	Implulse voltage, kV	kV	4					
6.	Short circuit currents							
6. 1	Max permissible phase short circuit current for 5 sec.	kA	0,45	0,45	0,72	1,03	1,43	2,01
6. 2	Max permissible messenger short circuit current for 5 sec.	kA	0,67	0,67	0,94	1,34	1,92	2,64