

		Cable AXMK										
		16	25	35	50	70	95	120	150	185	240	
1.	Basic cable data											
1.1	Manufacturer (name, location)	Energocomplekt, Vitebsk, Belarus										
1.2	Manufacturer's type reference	AXMK										
1.3	Standards, certificate	IEC 60502-1, HD 603 S1:1994 + A1:1997 + A2:2003 + A3:2007 Part 5 Section D, SFS 4879:2008										
1.4	Number of cores	4										
1.5	Phases conductor material and design Is it aluminium conductor to annealed?	RE, YES	SM, Aluminum Yes									
1.6	Nominal voltage Uo/U	kV	0,6/1 kV									
1.7	Highest continuous operating voltage Um	kV	1,2 kV									
1.8	Is it outer sheath of cable UV resistable? Is it to need extra protection against sunlight?	YES / NO										
1.9	Is it insulation of conductors UV resistable? Is it to need extra protection against sunlight?	YES / NO										
1.10	Is it to halogen free insulation of conductors and outer sheath?	-										
1.11	Possibility to installate to water? What is max depth of water?	NO										
1.12	Possibility to installate in ground?	YES										
1.13	Possibility to ploughing-down?	NO										
1.14	Ploughing-down instruction	YES										
1.15	Is it cable tested (routine tests, sample tests, type tests) by standard IEC 60502-1	YES										
1.16	Sample and type testing (electrical and non-electrical) protocol	YES (Test reports 271847-2, 271847-3, 271847-2a, 271847-2b dated 22.11.2013)										
2.	Construction characteristics	xxxx										
2.1	Net weight of cable, nominal value	kg/km	421,33	534,63	673,18	871,58	1196,48	1561,96	1954,93	2428,64	3001,57	3809,30
2.2	Overall diameter whole cable (approx)	mm	17,82	20,28	22,33	25,83	29,71	33,54	37,82	42,21	46,38	52,29
2.3	Number of wires in conductor		1	7	7	7	19	19	19	19	37	37
2.4	Min. diameter of core without insulation	mm	4,46	5.3×7.4	6.2×9.2	7.4×10.7	8.9×12.8	10.4×15.2	12.1×17.1	13.3×19.2	14.6×21.6	16.7×24.5
2.5	Max. diameter of core without insulation	mm	4,51	5.9×8.0	6.8×9.8	8.0×11.3	9.5×13.4	11.0×15.8	12.7×17.7	13.9×19.8	15.2×22.2	17.3×25.1
2.6	Cross-section of core without insulation	mm ²	16	25	35	50	70	95	120	150	185	240
2.7	Min. diameter of conductor with insulation	mm	5,56	7.02×9.12	7.92×10.92	9.3×12.6	10.98×14.88	12.48×17.28	14.36×19.36	15.92×21.82	17.58×24.58	19.86×27.66
2.8	Nom. diameter of conductor with insulation	mm	5,9	7.4×9.5	8.3×11.3	9.7×13.0	11.4×15.3	12.9×17.7	14.8×19.8	16.4×22.3	18.1×25.1	20.4×28.2

2.9	Material of core insulation		XLPE									
2.10	Min thickness of core insulation	mm	0,53	0,71	0,71	0,80	0,89	0,89	0,98	1,16	1,34	1,43
2.11	Nom. thickness of core insulation	mm	0,70	0,90	0,90	1,00	1,10	1,10	1,20	1,40	1,60	1,70
2.12	Color identification for the cable cores		gray,y/g, brown, black (HD 308)									
2.13	Color of PEN core		y/g									
2.14	Min diameter (size) of PEN without insulation	mm	4,46	5.3×7.4	6.2×9.2	7.4×10.7	8.9×12.8	10.4×15.2	12.1×17.1	13.3×19.2	14.6×21.6	16.7×24.5
2.15	Cross-section of PEN	mm ²	16	25	35	50	70	95	120	150	185	240
2.16	Outer sheathing material		PVC									
2.17	Min thickness of outer sheath	mm	1,43	1,43	1,43	1,52	1,69	1,69	1,86	1,94	2,20	2,90
2.18	Max thickness of outer sheath	mm	2,17	2,17	2,17	2,29	2,52	2,52	2,75	2,86	3,21	3,44
2.19	Longitudinal watertightness, way to make in		NO									
2.20	Radial watertightness, way to make in		NO									
3.	Usage characteristics	xxxx										
3.1	Standard length	m	3700	2700	2300	1700	1700	1400	1100	850	600	500
3.2	Type of standard drum		T-18a	T-18a	T-18a	T-18a	T-20a	T-20a	T-20a	T-20a	T-20a	T-22
3.3	Weight of standard drum	kg	330	330	330	330	380	380	380	380	380	460
3.4	Outer diameter of standard drum	mm	1800	1800	1800	1800	2000	2000	2000	2000	2000	2200
3.4	Weight (cable+drum)	kg	1 889	1 774	1 878	1 812	2 414	2 567	2 530	2 444	2 181	2 951
4.	Mechanical characteristics	xxxx										
4.1	Min permissible bending radius at pulling in:	xxxx										
4.2	Phase conductor	m	0,12	0,15	0,17	0,20	0,22	0,25	0,27	0,30	0,35	0,37
4.3	Cable	m	0,22	0,26	0,29	0,33	0,40	0,44	0,48	0,53	0,59	0,66
4.4	Min permissible bending radius on fixed mounting	xxxx										
4.5	Phase conductor	m	0,04	0,05	0,06	0,07	0,08	0,09	0,10	0,11	0,13	0,15
4.6	Cable	m	0,07	0,08	0,09	0,10	0,12	0,13	0,14	0,16	0,18	0,20
4.7	Admissible pulling force by pulling-head	kN	0,96	1,50	2,10	3,00	4,20	5,70	7,20	9,00	11,10	14,40
4.8	Admissible pulling force by socking	kN	0,96	1,50	2,10	3,00	4,20	5,70	7,20	8,50	8,50	8,50
4.9	Lowest laying temperature	C	-15C									
4.10	Lowest temperature transporation	C	-25C									
5.	Electrical characteristics	XXXX										
5.1	Maximum DC resistance of conductor 20 °C	Ω/km	1,910	1,200	0,868	0,641	0,443	0,320	0,253	0,206	0,164	0,125
5.2	Maximum AC resistance of conductor 90 °C	Ω/km	2,449	1,539	0,113	0,822	0,568	0,411	0,325	0,265	0,211	0,161
5.3	Inductance	mH/km	0,310	0,290	0,280	0,240	0,230	0,220	0,220	0,220	0,220	0,220
5.4	Cable capacitance	μF/km	0,220	0,290	0,380	0,420	0,460	0,520	0,530	0,540	0,560	0,580
5.5	Frequency	Hz	50									
5.6	Impulse voltage, kV	kV	125 kV, 1,2/50μS									
6.	Current ratings	xxxx										
6.1	In ground (conductor 65 °C, ground temperature 15 °C, thermal resistivity in the ground 1,0 Km/W)	A	78	100	125	150	185	220	255	280	330	375
6.2	In air conductor 70 °C	A	65	83	102	124	159	194	225	260	297	350
6.3	In air conductor 90 °C	A	80	101	125	152	194	236	274	316	361	425
7.	Short circuit currents	xxxxx										
7.1	Max permissible short circuit current for 1 sec.	kA	1,50	2,40	3,30	4,70	6,60	9,00	11,40	14,20	17,50	22,60
7.2	Max permissible short circuit current for 5 sec.	kA	0,67	1,07	1,48	2,10	2,95	4,02	5,10	6,35	7,83	10,02