

## 3.5 CORE ALUMINIUM XLPE ARMoured POWER CABLES

Type	No. of cores & cross sectional area	Min. No. of Wires	Thickness of insulation		Min. Thickness of inner-sheath (mm)	Nominal Dimensions of Armour Strip Wire (mm)		Min. Thickness of Outersheath Wire Strip Armour (mm)		Overall Diameter (Approx.) (mm)		Approx. Net Wt. of Cable (Kg/Km)		Max. D.C. Resistance at 20°C Ohms/Km	Max. A.C. Resistance at 90°C Ohms/Km	Approx. Reactance at 50 Hz Ohms/Km	Approx. Capacitance mFd/Km	CURRENT RATINGS	
			(min)	(nom)		Wire	Strip	Wire	Strip	Wire	Strip	Wire	Strip					Direct in Ground	In Air
						Armour	Armour	Armour	Armour	Armour	Armour	Armour	Armour					Amps	Amps
A2xfy/A2xwy	3.5CX25	6/6	0.9	0.7	0.3	1.60	4X0.8	1.40	1.40	23.8	22.2	999	760	1.2000	1.5400	0.080	0.20	94	96
A2xfy/A2xwy	3.5CX35	6/6	0.9	0.7	0.3	1.60	4X0.8	1.40	1.40	25.5	23.9	1146	885	0.8680	1.1100	0.080	0.23	113	117
A2xfy/A2xwy	3.5CX50	6/6	1.0	0.9	0.3	1.60	4X0.8	1.56	1.40	29.0	27.1	1427	1114	0.6410	0.8200	0.078	0.24	133	142
A2xfy/A2xwy	3.5CX70	12/6	1.1	0.9	0.4	2.00	4X0.8	1.56	1.56	34.0	31.6	2006	1473	0.4430	0.5670	0.077	0.26	164	179
A2xfy/A2xwy	3.5CX95	15/6	1.1	1.0	0.4	2.00	4X0.8	1.56	1.56	37.6	35.2	2436	1834	0.3200	0.4100	0.074	0.29	196	221
A2xfy/A2xwy	3.5CX120	15/12	1.2	1.1	0.4	2.00	4X0.8	1.72	1.72	40.2	37.8	2863	2220	0.2530	0.3250	0.072	0.29	223	257
A2xfy/A2xwy	3.5CX150	15/12	1.4	1.1	0.5	2.00	4X0.8	1.88	1.72	45.2	42.4	3378	2623	0.2060	0.2650	0.072	0.29	249	292
A2xfy/A2xwy	3.5CX185	30/15	1.6	1.1	0.5	2.50	4X0.8	2.04	1.88	49.7	46.0	4339	3179	0.1640	0.2110	0.072	0.29	282	337
A2xfy/A2xwy	3.5CX240	30/15	1.7	1.2	0.6	2.50	4X0.8	2.20	2.04	55.4	51.7	5298	3981	0.1250	0.1620	0.072	0.31	326	399
A2xfy/A2xwy	3.5CX300	30/15	1.8	1.4	0.6	2.50	4X0.8	2.36	2.20	59.3	55.6	6172	4750	0.1000	0.1300	0.071	0.33	367	455
A2xfy/A2xwy	3.5CX400	53/30	2.0	1.6	0.7	3.15	4X0.8	2.68	2.52	69.2	64.1	8341	6030	0.0778	0.1023	0.070	0.33	418	530

## 3.5 CORE ALUMINIUM XLPE UNARMoured POWER CABLES

Type	No. of cores & cross sectional area	Min. No. of Wires	Thickness of insulation		Min. Thickness of innersheath (mm)	Nom. Thickness of Outersheath (mm)	Overall Diameter (Approx.) (mm)	Net Wt. of Cable (Approx.) (Kg/Km)	Max. D.C. Resistance at 20°C Ohms/Km	Max. A.C. Resistance at 90°C Ohms/Km	Approx. Reactance at 50 Hz Ohms/Km	Approx. Capacitance mFd/Km	CURRENT RATINGS			
			(min)	(nom)									(mm)	(mm)	Direct in Ground	In Air
															Amps	Amps
A2xy	3.5CX25	6/6	0.90	0.70	0.3	2.00	22.4	587	1.2000	1.5400	0.080	0.20	94	96		
A2xy	3.5CX35	6/6	0.90	0.70	0.3	2.00	24.1	694	0.8680	1.1100	0.080	0.23	113	117		
A2xy	3.5CX50	6/6	1.00	0.90	0.3	2.00	27.3	890	0.6410	0.8200	0.078	0.24	133	142		
A2xy	3.5CX70	12/6	1.10	0.90	0.4	2.20	31.9	1215	0.4430	0.5670	0.077	0.26	164	179		
A2xy	3.5CX95	15/6	1.10	1.00	0.4	2.20	35.5	1540	0.3200	0.4100	0.074	0.29	196	221		
A2xy	3.5CX120	15/12	1.20	1.10	0.4	2.20	37.8	1875	0.2530	0.3250	0.072	0.29	223	257		
A2xy	3.5CX150	15/12	1.40	1.10	0.5	2.40	42.8	2271	0.2060	0.2650	0.072	0.29	249	292		
A2xy	3.5CX185	30/15	1.60	1.10	0.5	2.60	46.4	2805	0.1640	0.2110	0.072	0.29	282	337		
A2xy	3.5CX240	30/15	1.70	1.20	0.6	2.80	52.4	3599	0.1250	0.1620	0.072	0.31	326	399		
A2xy	3.5CX300	30/15	1.80	1.40	0.6	3.00	56.4	4348	0.1000	0.1300	0.071	0.33	367	455		
A2xy	3.5CX400	53/30	2.00	1.60	0.7	3.40	65.3	5629	0.0778	0.1023	0.070	0.33	418	530		