

## 3.5 CORE ALUMINIUM PVC ARMoured POWER CABLES

Type	No. of cores & cross sectional area	Min. No. of Wires	Thickness of PVC insulation (Nom.) (mm)	Min. Thickness of PVC inner sheath (mm)	Nominal Dimensions of Armour Strip Wire (mm)		Min. Thickness of PVC Outer Sheath Strip Wire (mm)		Overall Diameter (Approx.) (mm)		Approx. Net Wt. of Cable (Kg/Km)		Max. D.C. Resistance at 20 Ohms/Km	Max. A.C. Resistance at 70 Ohms/Km	Approx. Reactance at 50 Hz Ohms/Km	Approx. Capacitance mFd/Km	CURRENT RATINGS		
																	Direct in Ground	In Duct	In Air
																	Amps	Amps	Amps
Aywy/Ayfy	3.5Cx25/16	6/6	1.2/1.0	0.3	4x0.8	1.60	1.40	1.40	23.8	25.4	882	1128	1.2000	1.44	0.097	0.86	76	63	70
Aywy/Ayfy	3.5Cx35/16	6/6	1.2/1.0	0.3	4x0.8	1.60	1.40	1.40	24.8	26.4	1000	1263	0.8680	1.04	0.097	0.98	92	77	86
Aywy/Ayfy	3.5Cx50/25	6/6	1.4/1.2	0.3	4x0.8	1.60	1.56	1.56	28.4	30.0	1289	1583	0.6410	0.77	0.094	1.02	100	95	105
Aywy/Ayfy	3.5Cx70/35	12/6	1.4/1.2	0.4	4x0.8	2.00	1.56	1.56	32.5	34.9	1640	2184	0.4430	0.53	0.090	1.18	135	115	130
Aywy/Ayfy	3.5Cx95/50	15/6	1.6/1.4	0.4	4x0.8	2.00	1.56	1.72	36.2	38.9	2075	2716	0.3200	0.38	0.090	1.20	165	140	155
Aywy/Ayfy	3.5Cx120/70	15/12	1.6/1.4	0.5	4x0.8	2.00	1.72	1.88	39.3	42.1	2502	3203	0.2530	0.30	0.087	1.31	185	155	180
Aywy/Ayfy	3.5Cx150/70	15/12	1.8/1.4	0.5	4x0.8	2.00	1.88	1.88	44.0	46.4	2950	3680	0.2060	0.25	0.087	1.31	210	175	205
Aywy/Ayfy	3.5Cx185/95	30/15	2.0/1.6	0.5	4x0.8	2.50	2.04	2.04	48.8	52.2	3610	4813	0.1640	0.20	0.087	1.31	235	200	240
Aywy/Ayfy	3.5Cx240/120	30/15	2.2/1.6	0.6	4x0.8	2.50	2.20	2.36	55.2	58.9	4526	5715	0.1250	0.15	0.087	1.34	275	235	280
Aywy/Ayfy	3.5Cx300/150	30/15	2.4/1.8	0.6	4x0.8	3.15	2.36	2.52	59.7	64.7	5400	7531	0.1000	0.12	0.086	1.41	305	260	315
Aywy/Ayfy	3.5CX400/185	53/30	2.6/2.0	0.7	4X0.8	3.15	2.68	2.68	68.6	73.3	6827	9211	0.0778	0.09	0.086	1.45	335	290	375

## 3.5 CORE ALUMINIUM PVC UNARMoured POWER CABLES

Type	No of cores & cross sectional area sqmm	Min.No of wires	Thickness of PVC Insulation (Nom.) mm	Min Thickness of PVC Innersheath mm	Nom. Thicknee of Outer sheath mm	Overall Diameter (Approx) mm	Net Wt. of Cable (Approx) Kg/Km	Max. DC Resistance at 20°C Ohm/Km	Max. AC Resistance at 70°C Ohm/Km	Approx.. Reactance at 50 Hz Ohm/Km	Approx. Capacitance mFd/Km	CURRENT RATINGS		
												Direct in Ground	In Duct	In Air
												Amps	Amps	Amps
AYY	3.5 C X 25/16	6/6	1.2/1.0	0.30	2.00	24.00	692	1.20	1.44	0.097	0.86	76	63	70
AYY	3.5 C X 35/16	6/6	1.2/1.0	0.30	2.00	25.00	799	0.868	1.04	0.097	0.98	92	77	86
AYY	3.5 C X 50/25	6/6	1.4/1.2	0.30	2.00	28.50	1034	0.641	0.77	0.094	1.02	110	95	105
AYY	3.5 C X 70/35	12/6	1.4/1.2	0.40	2.20	32.80	1373	0.443	0.53	0.090	1.18	135	115	130
AYY	3.5 C X 95/50	15/6	1.6/1.4	0.40	2.20	36.50	1771	0.320	0.38	0.090	1.20	165	140	155
AYY	3.5 C X 120/70	15/12	1.6/1.4	0.50	2.40	39.70	2180	0.253	0.30	0.087	1.31	185	155	180
AYY	3.5 C X 150/70	15/12	1.8/1.4	0.50	2.40	44.00	2554	0.206	0.25	0.087	1.31	210	175	205
AYY	3.5 C X 185/95	30/15	2.0/1.6	0.50	2.60	48.90	3176	0.164	0.20	0.087	1.31	235	200	240
AYY	3.5 C X 240/120	30/15	2.2/1.6	0.60	3.00	56.00	4128	0.125	0.15	0.087	1.34	275	235	280
AYY	3.5 C X 300/150	30/15	2.4/1.8	0.60	3.20	60.60	4989	0.100	0.12	0.086	1.41	305	260	315
AYY	3.5 C X 400/185	53/30	2.6/ 2.0	0.70	3.40	69.40	6344	0.0778	0.09	0.086	1.45	335	290	375