

1 CORE ALUMINIUM PVC ARMoured & UNARMoured POWER CABLES

No. of cores & cross sectional area	Min. No. of Wires	ARMoured					UNARMoured					Max. D.C. Resistance at 20 Ohms/Km	Max. A.C. Resistance at 70 Ohms/Km	ARMoured		UNARMoured		CURRENT RATINGS					
		Thickness of PVC insulation (Nom.) (mm)	Nominal Dimensions of Armour Wire (mm)	Min. Thickness of PVC Outer Sheath (mm)	Overall Diameter (Approx.) (mm)	Approx. Net Wt. of Cable (Kg/Km)	Thickness of insulation (Nom.) (mm)	Nom. Thickness of outer sheath (mm)	Overall Diameter (Approx.) (mm)	Approx. Net Wt. of Cable	Approx. Reactance at 50 Hz Ohms/Km			Approx. Capacitance mFd/Km	Approx. Reactance at 50 Hz Ohms/Km	Approx. Capacitance mFd/Km	Direct in Ground			In Duct		In Air	
																	2 Cables Amps	3 Cables Amps	2 Cables Amps	3 Cables Amps	2 Cables Amps	3 Cables Amps	
1CX4	1	1.3	1.4	1.24	10.9	148	1.0	1.8	8.60	89	7.4100	8.8900	0.158	0.47	0.137	0.58	36	31	33	30	32	27	
1CX6	1	1.3	1.4	1.24	11.4	165	1.0	1.8	9.10	103	4.6100	5.5300	0.148	0.56	0.127	0.68	44	39	42	37	41	35	
1CX10	1	1.3	1.4	1.24	12.3	196	1.0	1.8	10.10	127	3.0800	3.7000	0.138	0.67	0.118	0.83	59	51	56	51	56	47	
1CX16	6	1.3	1.4	1.24	13.1	225	1.0	1.8	10.80	152	1.9100	2.2900	0.128	0.81	0.110	1.01	75	66	71	65	72	64	
1CX25	6	1.5	1.4	1.24	14.7	287	1.2	1.8	12.40	204	1.2000	1.4400	0.120	0.87	0.105	1.05	97	86	93	84	99	84	
1CX35	6	1.5	1.4	1.24	15.7	334	1.2	1.8	13.40	244	0.8680	1.0400	0.114	1.00	0.100	1.22	120	100	110	100	120	105	
1CX50	6	1.7	1.4	1.24	17.2	411	1.4	1.8	14.90	310	0.6410	0.7700	0.110	1.03	0.098	1.22	145	120	130	115	150	130	
1CX70	12	1.7	1.4	1.40	19.1	513	1.4	1.8	16.50	388	0.4430	0.5300	0.103	1.21	0.091	1.43	175	140	155	135	185	155	
1CX95	15	1.9	1.6	1.40	21.6	662	1.6	1.8	18.60	501	0.3200	0.3800	0.101	1.27	0.088	1.47	210	175	195	155	215	190	
1CX120	15	1.9	1.6	1.40	23.7	784	1.6	2.0	21.10	621	0.2530	0.3000	0.096	1.42	0.086	1.62	240	195	200	170	240	220	
1CX150	15	2.1	1.6	1.40	24.8	898	1.8	2.0	22.20	726	0.2060	0.2500	0.094	1.42	0.085	1.62	270	220	220	190	270	250	
1CX185	30	2.3	1.6	1.40	27.1	1069	2.0	2.0	24.50	884	0.1640	0.2000	0.092	1.44	0.084	1.62	305	240	240	210	305	290	
1CX240	30	2.5	1.6	1.56	30.2	1337	2.2	2.0	27.30	1106	0.1250	0.1500	0.090	1.53	0.082	1.72	335	270	270	225	350	335	
1CX300	30	2.8	2.0	1.56	33.7	1676	2.4	2.0	29.80	1336	0.1000	0.1200	0.088	1.56	0.080	1.74	370	295	295	245	395	380	
1CX400	53	3.0	2.0	1.56	37.1	2032	2.6	2.2	33.60	1690	0.0778	0.0934	0.088	1.56	0.080	1.81	410	325	335	275	455	435	
1CX500	53	3.4	2.0	1.72	41.2	2531	3.0	2.2	37.40	2120	0.0605	0.0726	0.087	1.57	0.079	1.76	435	345	355	295	490	480	
1CX630	53	3.9	2.0	1.88	46.2	3183	3.4	2.4	42.20	2709	0.0469	0.0563	0.086	1.57	0.077	1.77	485	390	395	320	560	550	
1CX800	53	3.9	2.0	1.88	52.0	4120	3.4	2.4	48.00	3430	0.0367	0.0440	0.083	1.75	0.077	1.98	525	442	420	350	640	600	
1CX1000	53	4.0	2.5	2.04	57.3	4812	3.4	2.6	52.20	4064	0.0291	0.0349	0.082	1.94	0.076	2.20	570	485	445	380	740	720	

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