

## 1 CORE ALLUMINIUM XLPE 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 PVC insulation (Nom.) (mm)	Nom. Thickness of Outer Sheath (mm)	Overall Diameter (Approx.) (mm)	Approx. Net Wt. of Cable (Kg/Km)	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 (Amps)	In Air (Amps)	
1CX25	6	1.20	1.40	1.24	14.1	253	0.90	1.80	11.8	177	1.200	1.5400	0.116	0.40	0.102	0.52	96	98	
1CX35	6	1.20	1.40	1.24	15.1	297	0.90	1.80	12.8	215	0.868	1.1100	0.110	0.47	0.097	0.60	114	121	
1CX50	6	1.30	1.40	1.24	16.4	358	1.00	1.80	14.1	270	0.641	0.8200	0.103	0.50	0.092	0.63	135	150	
1CX70	12	1.40	1.40	1.24	18.2	448	1.10	1.80	15.9	347	0.443	0.5670	0.099	0.55	0.088	0.68	166	187	
1CX95	15	1.40	1.60	1.40	20.6	588	1.10	1.80	17.6	438	0.320	0.4100	0.097	0.64	0.085	0.79	198	230	
1CX120	15	1.50	1.60	1.40	22.9	701	1.20	1.80	20.3	556	0.253	0.3250	0.093	0.67	0.082	0.79	225	268	
1CX150	15	1.70	1.60	1.40	24.0	806	1.40	2.00	21.4	652	0.206	0.2650	0.091	0.67	0.082	0.79	253	309	
1CX185	30	1.90	1.60	1.40	26.3	966	1.60	2.00	23.7	795	0.164	0.2110	0.090	0.67	0.082	0.79	286	360	
1CX240	30	2.00	1.60	1.40	28.9	1179	1.70	2.00	26.3	991	0.125	0.1620	0.086	0.72	0.079	0.84	332	433	
1CX300	30	2.10	1.60	1.56	31.5	1421	1.80	2.00	28.6	1193	0.100	0.1300	0.085	0.75	0.078	0.86	376	501	
1CX400	53	2.40	2.00	1.56	35.9	1836	2.00	2.20	32.4	1519	0.0778	0.1023	0.085	0.75	0.077	0.88	431	596	
1CX500	53	2.60	2.00	1.56	39.3	2232	2.20	2.20	35.8	1887	0.0605	0.0808	0.083	0.77	0.076	0.90	490	693	
1CX630	53	2.80	2.00	1.72	43.6	2773	2.40	2.20	39.8	2360	0.0469	0.0648	0.082	0.81	0.075	0.94	557	814	
1CX800	53	3.10	2.00	1.88	50.0	3730	2.60	2.40	46.0	3100	0.0362	0.0530	0.081	0.88	0.075	0.97	600	890	
1CX1000	53	3.30	2.50	2.04	55.9	4411	2.80	2.60	51.0	3735	0.0291	0.0444	0.081	0.88	0.068	1.01	650	1050	