

# 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	
		ICX25	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
ICX35	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	
ICX50	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	
ICX70	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	
ICX95	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	
ICX120	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	
ICX150	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	
ICX185	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	
ICX240	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	
ICX300	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	
ICX400	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	
ICX500	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	
ICX630	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	
ICX800	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	
ICX1000	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	