

# 1 CORE COPPER 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)	
IC X 25	6	1.20	1.40	1.24	14.1	407	0.90	1.8	11.8	331	0.727	0.930	0.116	0.40	0.102	0.52	132	132	
IC X 35	6	1.20	1.40	1.24	15.1	511	0.90	1.8	12.8	428	0.524	0.671	0.110	0.47	0.097	0.60	156	156	
IC X 50	6	1.30	1.40	1.24	16.4	643	1.00	1.8	14.1	554	0.387	0.495	0.103	0.50	0.092	0.63	186	198	
IC X 70	12	1.40	1.40	1.24	18.2	866	1.10	1.8	15.9	764	0.268	0.343	0.099	0.55	0.088	0.68	228	246	
IC X 95	15	1.40	1.60	1.40	20.6	1168	1.10	1.8	17.6	1018	0.193	0.247	0.097	0.64	0.085	0.79	264	294	
IC X 120	18	1.50	1.60	1.40	22.9	1432	1.20	1.8	20.3	1287	0.153	0.196	0.093	0.67	0.082	0.79	300	336	
IC X 150	18	1.70	1.60	1.40	24.0	1710	1.40	2.0	21.4	1556	0.124	0.159	0.091	0.67	0.082	0.79	336	384	
IC X 185	30	1.90	1.60	1.40	26.3	2095	1.60	2.0	23.7	1924	0.0991	0.127	0.090	0.67	0.082	0.79	366	444	
IC X 240	34	2.00	1.60	1.40	28.9	2664	1.70	2.0	26.3	2476	0.0754	0.0965	0.086	0.72	0.079	0.84	414	510	
IC X 300	34	2.10	1.60	1.56	31.5	3287	1.80	2.0	28.6	3058	0.0601	0.0769	0.085	0.75	0.078	0.86	450	570	
IC X 400	53	2.40	2.00	1.56	35.9	4217	2.00	2.2	32.4	3899	0.0470	0.0608	0.085	0.75	0.077	0.88	480	660	
IC X 500	53	2.60	2.00	1.56	39.3	5286	2.20	2.2	35.8	4941	0.0366	0.0468	0.083	0.77	0.076	0.90	564	708	
IC X 630	53	2.80	2.00	1.72	43.6	6728	2.40	2.2	39.8	6315	0.0283	0.0362	0.082	0.81	0.075	0.94	570	825	
IC X 800	53	3.10	2.00	1.88	50.0	8250	2.60	2.4	46.0	7676	0.0221	0.0283	0.081	0.88	0.075	0.97	660	945	
ICX1000	53	3.30	2.50	2.04	55.9	10766	2.80	2.6	51.0	10090	0.0176	0.0225	0.081	0.88	0.068	1.01	723	1063	