

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	
		1C 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
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1C 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	
1CX1000	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	

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