

GRID INDIA POWER CABLES PVT. LTD.



1 CORE COPPER XLPE UNARMoured POWER CABLES

No. of cores and cross sectional area	Min. No. of wires	Thickness of XLPE Insulation (Nom.) (mm)	Nom. Thickness of PVC Outer Sheath (mm)	Overall Diameter (Approx.)	Approx. Net Wt. of Cable (Kg/Km)	Max. D.C. Resistance at 20 Deg. (Ohms/Km)	Max. A.C. Resistance at 90 Deg. (Ohms/Km)	Approx. Reactance at 50 Hz (Ohm/Km)	Approx. Capacitance (mFd/Km)	CURRENT RATINGS	
										Direct in Ground	In Air
										Amps	Amps
1C x 25	6	0.90	1.8	12	315	0.727	0.93	0.102	0.52	132	132
1C x 35	6	0.90	1.8	13	409	0.524	0.671	0.097	0.60	156	156
1C x 50	6	1.00	1.8	15	532	0.387	0.495	0.092	0.63	186	198
1C x 70	12	1.10	1.80	16	731	0.268	0.343	0.088	0.68	228	246
1C x 95	15	1.10	1.80	18	973	0.193	0.247	0.085	0.79	264	294
1C x 120	18	1.20	1.80	20	1207	0.153	0.196	0.082	0.79	300	336
1C x 150	18	1.40	2.00	22	1491	0.124	0.159	0.082	0.79	336	384
1C x 185	30	1.60	2.00	24	1838	0.0991	0.127	0.082	0.79	366	444
1C x 240	34	1.70	2.00	27	2356	0.0754	0.0965	0.079	0.84	414	510
1C x 300	34	1.80	2.00	29	2916	0.0601	0.0769	0.078	0.86	450	570
1C x 400	53	2.00	2.2	33	3720	0.0470	0.0602	0.077	0.88	480	660
1C x 500	53	2.20	2.2	36	4708	0.0366	0.0468	0.076	0.90	570	708
1C x 630	53	2.40	2.2	41	6022	0.0283	0.0362	0.075	0.94	564	825
1C x 800	53	2.60	2.4	46	7676	0.0211	0.0283	0.075	0.97	660	945
1C x 1000	53	2.80	2.6	51	9587	0.0176	0.0225	0.068	1.01	723	1063