

# GRID INDIA POWER CABLES PVT. LTD.



## 1 CORE ALUMINIUM XLPE UNARMoured POWER CABLES

No. of cores and cross sectional area	Min. No. of wires	Thickness of Insulation (Nom.) (mm)	Nom. Thickness of Outer Sheath (mm)	Overall Diameter (Approx.)	Net Wt. of Cable (Approx.) (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	1.80	12	190	1.2000	1.5400	0.102	0.52	96	98
1C x 35	6	0.90	1.80	13	230	0.8680	1.1100	0.097	0.60	114	121
1C x 50	6	1.00	1.80	15	280	0.6410	0.8200	0.092	0.63	135	150
1C x 70	12	1.10	1.80	16	370	0.4430	0.5670	0.088	0.68	166	187
1C x 95	15	1.10	1.80	18	460	0.3200	0.4100	0.085	0.79	198	230
1C x 120	15	1.20	1.80	20	560	0.2530	0.3250	0.082	0.79	225	268
1C x 150	15	1.40	2.00	22	690	0.2060	0.2650	0.082	0.79	253	309
1C x 185	30	1.60	2.00	24	840	0.1640	0.2110	0.082	0.79	286	360
1C x 240	30	1.70	2.00	27	1030	0.1250	0.1620	0.079	0.84	332	433
1C x 300	30	1.80	2.00	29	1240	0.1000	0.1300	0.078	0.86	376	501
1C x 400	53	2.00	2.20	33	1590	0.0775	0.1023	0.077	0.88	431	596
1C x 500	53	2.20	2.20	36	1960	0.0605	0.0808	0.076	0.90	490	693
1C x 630	53	2.40	2.20	41	2460	0.0469	0.0648	0.075	0.94	557	814
1C x 800	53	2.60	2.40	46	3100	0.0367	0.0530	0.075	0.97	600	890
1C x 1000	53	2.80	2.60	51	3850	0.0291	0.0444	0.068	1.01	650	1050