

# GRID INDIA POWER CABLES PVT. LTD.



## 3.5 CORE ALUMINIUM XLPE UNARMoured POWER CABLES

No. of cores and cross sectional area	Min. No. of wires	Thickness of Insulation		Min. Thickness of inner sheath (mm)	Nom. Thickness of Outer Sheath (mm)	Overall Diameter (Approx.)	Net Wt. of Cable (Approx.)	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	
		(nom.)	(mm)									Direct in Ground	In Air
												Amps	Amps
3.5C 25	6/6	0.90	0.70	0.3	2.00	22	600	1.2000	1.5400	0.080	0.20	94	96
3.5C x x 35	6/6	0.90	0.70	0.3	2.00	25	720	0.8680	1.1100	0.080	0.23	113	117
3.5C x 50	6/6	1.00	0.90	0.3	2.00	27	910	0.6410	0.8200	0.078	0.24	133	142
3.5C x 70	12/6	1.10	0.90	0.4	2.20	31	1230	0.4430	0.5670	0.077	0.26	164	179
3.5C x 95	15/6	1.10	1.00	0.4	2.20	35	1550	0.3200	0.4100	0.074	0.29	196	221
3.5C x 120	15/12	1.20	1.10	0.4	2.20	38	2050	0.2530	0.3250	0.072	0.29	223	257
3.5C x 150	15/12	1.40	1.10	0.5	2.40	42	2300	0.2060	0.2650	0.072	0.29	249	292
3.5C x 185	30/15	1.60	1.10	0.5	2.60	47	2860	0.1640	0.2110	0.072	0.29	282	337
3.5C x 240	30/15	1.70	1.20	0.6	2.80	52	3610	0.1250	0.1620	0.072	0.31	326	399
3.5C x 300	30/15	1.80	1.40	0.6	3.00	57	4410	0.1000	0.1300	0.071	0.33	367	455
3.5C x 400	53/30	2.00	1.60	0.7	3.40	66	5650	0.0778	0.1023	0.070	0.33	418	530