

# GRID INDIA POWER CABLES PVT. LTD.



## 3.5 CORE COPPER PVC UNARMoured POWER CABLES

No. of cores and cross sectional area	Min. No. of wires	Thickness of PVC Insulation (Nom.) (mm)	Min. Thickness of PVC Innersheath (mm)	Nom. Thickness of Outer Sheath (mm)	Overall Diameter (Approx.)	Net Wt. of Cable (Approx.)	Max. A.C. Resistance (Approx.) (Ohm/Km)	Max. D.C. Resistance at 70 (Ohms/Km)	Approx. Reactance at 50 Hz (Ohm/Km)	Approx. Capacitance (mFd/Km)	CURRENT RATINGS		
											Direct in Ground	In duct	In Air
											Amps	Amps	Amps
3.5C x 25/16	6/6	1.2/1.0	0.30	2.00	22.70	1255	0.73	0.87	0.097	0.86	99	81	90
3.5C x 35/16	6/6	1.2/1.0	0.30	2.00	24.00	1561	0.524	0.627	0.097	0.98	120	99	110
3.5C x 50/25	6/6	1.4/1.2	0.30	2.00	27.00	2071	0.387	0.463	0.094	1.02	145	125	135
3.5C x 70/35	12/6	1.4/1.2	0.40	2.20	31.00	2845	0.268	0.321	0.090	1.18	175	150	165
3.5C x 95/50	15/6	1.6/1.4	0.40	2.20	35.00	3804	0.193	0.231	0.090	1.20	210	175	200
3.5C x 120/70	18/12	1.6/1.4	0.50	2.40	40.00	4788	0.153	0.184	0.087	1.31	240	195	230
3.5C x 150/70	18/12	1.8/1.4	0.50	2.40	42.30	5673	0.124	0.149	0.087	1.31	270	225	265
3.5C x 185/95	30/15	2.0/1.6	0.50	2.60	46.80	7080	0.099	0.1200	0.087	1.31	300	255	305
3.5C x 240/120	34/18	2.2/1.6	0.60	3.00	54.50	9194	0.075	0.0912	0.087	1.34	345	295	355
3.5C x 300/150	34/18	2.4/1.8	0.60	3.20	59.00	11400	0.060	0.0739	0.086	1.41	385	335	400
3.5C x 400/185	53/30	2.6/2.0	0.70	3.40	67.00	14395	0.0470	0.0592	0.086	1.45	425	360	455