

GRID INDIA POWER CABLES PVT. LTD.



3.5 CORE COPPER XLPE UNARMoured POWER CABLES

No. of cores and cross sectional area	Min. No. of wires	Thickness of XLPE Insulation (Nom.) (mm)	Min. Thickness of PVC Innersheath (mm)	Nom. Thickness of PVC 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	
											Direct in Ground	In Air
											Amps	Amps
3.5C x 25/16	6/6	0.9/0.7	0.3	2.00	22.0	1102	0.727	0.930	0.080	0.20	119	108
3.5C x 35/16	6/6	0.9/0.7	0.3	2.00	25.0	1389	0.524	0.671	0.080	0.23	144	132
3.5C x 50/25	6/6	1.0/0.9	0.3	2.00	27.0	1836	0.387	0.495	0.078	0.24	174	162
3.5C x 70/35	12/6	1.1/0.9	0.4	2.20	31.0	2567	0.268	0.343	0.077	0.26	210	198
3.5C x 95/50	15/6	1.1/1.0	0.4	2.20	35.0	3416	0.193	0.247	0.074	0.29	252	240
3.5C x 120/70	18/12	1.2/1.1	0.4	2.20	38.0	4317	0.153	0.196	0.072	0.29	288	276
3.5C x 150/70	18/15	1.4/1.1	0.5	2.40	42.0	5178	0.124	0.159	0.072	0.29	324	318
3.5C x 185/95	30/15	1.6/1.1	0.5	2.60	47.0	6508	0.0991	0.127	0.072	0.29	360	366
3.5C x 240/120	34/18	1.7/1.2	0.6	2.80	52.0	8389	0.0754	0.0965	0.072	0.31	414	426
3.5C x 300/150	34/18	1.8/1.4	0.6	3.00	57.0	10401	0.0601	0.0769	0.071	0.33	462	480
3.5C x 400/185	53/30	2.0/1.6	0.7	3.40	66.0	13271	0.0470	0.0602	0.070	0.33	510	546