

GRID INDIA POWER CABLES PVT. LTD.



3.5 CORE COPPER XLPE ARMoured POWER CABLES

No. of cores and cross sectional area	Min. No. of wires	Thickness of XLPE Insulation (Nom.) (mm)	Min. Thickness of PVC Inner sheath (mm)	Nominal Dimensions of Armour (mm)		Min. Thickness of PVC Outer Sheath (mm)		Overall Diameter (Approx.) (mm)		Approx. Net. Wet of Cable		Max. D.C. Resistance at 20 (Ohms/Km)	Max. A.C. Resistance at 90 (Ohms/Km)	Approx. Reactance at 50 Hz (Ohm/Km)	Approx. Capacitance (mFd/Km)	CURRENT RATINGS	
				Strip	Wire	Strip Armour	Wire Armour	Strip Armour	Wire Armour	Strip Armour (Kg/Km)	Wire Armour (Kg/Km)					Direct in Ground	In Air
3.5C x 25/16	6/6	0.9/0.7	0.3	4x0.8	1.60	1.40	1.40	25	23	1583	1354	0.727	0.930	0.080	0.20	119	108
3.5C x 35/16	6/6	0.9/0.7	0.3	4x0.8	1.60	1.40	1.40	27	25	1925	1680	0.524	0.671	0.080	0.23	144	132
3.5C x 50/25	6/6	1.0/0.9	0.3	4x0.8	1.60	1.56	1.40	30	28	2468	2143	0.387	0.495	0.078	0.24	174	162
3.5C x 70/35	12/6	1.1/0.9	0.4	4x0.8	2.00	1.56	1.56	34	32	3465	2931	0.268	0.343	0.077	0.26	210	198
3.5C x 95/50	15/6	1.1/1.0	0.4	4x0.8	2.00	1.56	1.56	38	35	4426	3831	0.193	0.247	0.074	0.29	252	240
3.5C x 120/70	18/12	1.2/1.1	0.4	4x0.8	2.00	1.72	1.72	42	39	5498	4831	0.153	0.196	0.072	0.29	288	276
3.5C x 150/70	18/15	1.4/1.1	0.5	4x0.8	2.00	1.88	1.72	46	43	6473	5691	0.124	0.159	0.072	0.29	324	318
3.5C x 185/95	30/15	1.6/1.1	0.5	4x0.8	2.50	2.04	1.88	51	47	8333	7100	0.0991	0.127	0.072	0.29	360	366
3.5C x 240/120	34/18	1.7/1.2	0.6	4x0.8	2.50	2.20	2.04	57	53	10435	9035	0.0754	0.0965	0.072	0.31	414	426
3.5C x 300/150	34/18	1.8/1.4	0.6	4x0.8	2.50	2.36	2.20	61	57	12671	11126	0.0601	0.0769	0.071	0.33	462	480
3.5C x 400/185	53/30	2.0/1.6	0.7	4x0.8	3.15	2.68	2.52	71	66	16498	14059	0.0470	0.0602	0.070	0.33	510	546