

GRID INDIA POWER CABLES PVT. LTD.



3.5 CORE ALUMINIUM XLPE ARMoured POWER CABLES

No. of cores and cross sectional area	Min. No. of wires	Thickness of Insulation		Min. Thickness of Innersheath (mm)	Nominal Dimensions of Armour (mm)		Min. Thickness of 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	
		(min.)	(nom)		Strip	Wire	Strip Armour	Wire Armour	Strip Armour (Kg/Km)	Wire Armour (Kg/Km)	Direct in Ground	In Air						
											Amps	Amps						
3.5C x 25	6/6	0.9	0.7	0.3	1.60	4x0.8	1.40	1.40	25	23	1110	870	1.2000	1.5400	0.080	0.20	94	96
3.5C x 35	6/6	0.9	0.7	0.3	1.60	4x0.8	1.40	1.40	27	25	1290	1030	0.8680	1.1100	0.080	0.23	113	117
3.5C x 50	6/6	1.0	0.9	0.3	1.60	4x0.8	1.56	1.40	30	28	1580	1230	0.6410	0.8200	0.078	0.24	133	142
3.5C x 70	12/6	1.1	0.9	0.4	2.00	4x0.8	1.56	1.56	34	32	2170	1610	0.4430	0.5670	0.077	0.26	164	179
3.5C x 95	15/6	1.1	1.0	0.4	2.00	4x0.8	1.56	1.56	38	35	2620	2000	0.3200	0.4100	0.074	0.29	196	221
3.5C x 120	15/12	1.2	1.1	0.4	2.00	4x0.8	1.72	1.72	42	39	3160	2460	0.2530	0.3250	0.072	0.29	223	257
3.5C x 150	15/12	1.4	1.1	0.5	2.00	4x0.8	1.88	1.72	46	43	3670	2840	0.2060	0.2650	0.072	0.29	249	292
3.5C x 185	30/15	1.6	1.1	0.5	2.50	4x0.8	2.04	1.88	51	47	4780	3480	0.1640	0.2110	0.072	0.29	282	337
3.5C x 240	30/15	1.7	1.2	0.6	2.50	4x0.8	2.20	2.04	57	53	5760	4290	0.1250	0.1620	0.072	0.31	326	399
3.5C x 300	30/15	1.8	1.4	0.6	2.50	4x0.8	2.36	2.20	61	57	6790	5170	0.1000	0.1300	0.071	0.33	367	455
3.5C x 400	53/30	2.0	1.6	0.7	3.15	4x0.8	2.68	2.52	71	66	9040	6480	0.0778	0.1023	0.070	0.33	418	530