

GRID INDIA POWER CABLES PVT. LTD.



3.5 CORE ALUMINIUM PVC ARMoured POWER CABLES

No. of cores and cross sectional area	Min. No. of wires	Thickness of PVC 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 70 (Ohms/Km)	Approx. Reactance at 50 Hz (Ohm/Km)	Approx. Capacitance (mF/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 duct	In Air
3.5C x 25/16	6/6.	1.2/1.0	0.30	4x0.8	1.60	1.40	1.40	25.0	26.5	1000	1260	1.2000	1.44	0.097	0.86	76	63	70
3.5C x 35/16	6/6.	1.2/1.0	0.30	4x0.8	1.60	1.40	1.40	26.0	27.5	1170	1450	0.8680	1.04	0.097	0.98	92	77	86
3.5C x 50/25	6/6.	1.4/1.2	0.30	4x0.8	1.60	1.56	1.56	29.5	31.0	1470	1805	0.6410	0.77	0.094	1.02	100	95	105
3.5C x 70/35	12/6.	1.4/1.2	0.40	4x0.8	2.00	1.56	1.56	33.5	36.0	1810	2405	0.4430	0.53	0.090	1.18	135	115	130
3.5C x 95/50	15/6.	1.6/1.4	0.40	4x0.8	2.00	1.56	1.72	37.5	40.0	2305	3015	0.3200	0.38	0.090	1.20	165	140	155
3.5C x 120/70	15/12.	1.6/1.4	0.50	4x0.8	2.00	1.72	1.88	41.0	43.0	2760	3545	0.2530	0.30	0.087	1.31	185	155	180
3.5C x 150/70	15/12.	1.8/1.4	0.50	4x0.8	2.00	1.88	1.88	45.5	48.0	3215	4030	0.2060	0.25	0.087	1.31	210	175	205
3.5C x 185/95	30/15.	2.0/1.6	0.50	4x0.8	2.50	2.04	2.04	50.0	53.5	3900	5300	0.1640	0.20	0.087	1.31	235	200	240
3.5C x 240/120	30/15.	2.2/1.6	0.60	4x0.8	2.50	2.20	2.36	57.0	60.0	4840	6390	0.1250	0.15	0.087	1.34	275	235	280
3.5C x 300/150	30/15.	2.4/1.8	0.60	4x0.8	3.15	2.36	2.52	61.5	66.0	5835	8210	0.1000	0.12	0.086	1.41	305	260	315
3.5C x 400/185	53/30.	2.6/2.0	0.70	4x0.8	3.15	2.68	2.68	70.0	75.0	7250	9900	0.0778	0.09	0.086	1.45	335	290	375