

GRID INDIA POWER CABLES PVT. LTD.



4 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 Innersheath (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
4C x 16	6	0.70	0.3	4x0.8	1.60	1.40	1.40	22.0	21.0	1210	998	1.15	1.47	0.080	0.36	92	79
4C x 25	6	0.90	0.3	4x0.8	1.60	1.40	1.40	26.0	24.0	1709	1473	0.727	0.930	0.080	0.20	119	108
4C x 35	6	0.90	0.3	4x0.8	1.60	1.40	1.40	28.0	26.0	2154	1886	0.524	0.671	0.080	0.23	144	132
4C x 50	6	1.00	0.3	4x0.8	1.60	1.56	1.56	31.0	30.0	2732	2431	0.387	0.495	0.078	0.24	174	162
4C x 70	12	1.10	0.4	4x0.8	2.00	1.56	1.56	36.0	34.0	3887	3301	0.268	0.343	0.077	0.26	210	198
4C x 95	15	1.10	0.4	4x0.8	2.00	1.72	1.56	40.0	37.0	4970	4299	0.193	0.247	0.074	0.29	252	240
4C x 120	18	1.20	0.5	4x0.8	2.00	1.88	1.72	44.0	42.0	6583	5827	0.153	0.196	0.072	0.29	288	276
4C x 150	18	1.40	0.5	4x0.8	2.50	2.04	1.88	50.0	46.0	7702	6500	0.124	0.159	0.072	0.29	324	318
4C x 185	30	1.60	0.5	4x0.8	2.50	2.20	2.04	55.0	51.0	9377	8031	0.0991	0.127	0.072	0.29	360	366
4C x 240	34	1.70	0.6	4x0.8	2.50	2.36	2.20	61.0	57.0	11776	10286	0.0754	0.0965	0.072	0.31	414	426
4C x 300	34	1.80	0.7	4x0.8	3.15	2.52	2.36	68.0	63.0	15072	11988	0.0601	0.0769	0.071	0.33	462	480
4C x 400	53	2.00	0.7	4x0.8	3.15	2.84	2.68	76.0	71.0	18669	15872	0.0470	0.0602	0.070	0.33	510	546