



by CHANDRESH CABLES LTD

4 CORE ALLUMINIUM PVC ARMoured & UNARMoured POWER CABLES

No of cores & cross sectional area	Min No of Wires	Thickness of pvc insulation (Nom)	Min Thickness of pvc inner sheath	ARMoured								UNARMoured			Max D.C Resistance at 20	Max A.C Resistance at 70	Approx Reactance at 50 Hz	Approx Capacitance	CURRENT RATING		
				Nominal Dimension of Armour		Min. Thickness of pvc outer sheath (approx)		Overall Diameter (Approx)		Approx Net Wt of Cable		Nom. Thickness of outer sheath	Overall Diameter (Approx)	Net Wt. of Cable (Approx)					Direct in Ground	In Duct	In Air
				Wire	Strip	wire	strip	Wire	Strip	Wire	Strip										
(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(Kg/Km)	(Kg/Km)	(MM)	(MM)	(Kg/Km)	Ohms/Km	Ohms/Km	Ohm/Km	mFd/Km	Amps.	Amps.	Amps.
4 C X1.5	-	0.8	0.3	1.4	-	1.24	-	15.0	-	400	-	1.8	12.5	150	18.100	21.7000	0.1120	0.38	16	14	13
4 C X2.5	-	0.9	0.3	1.4	-	1.24	-	16.5	-	480	-	1.8	14.0	180	12.100	14.5000	0.1100	0.41	21	18	18
4 C X4	-	1.0	0.3	1.4	-	1.24	-	18.0	-	550	-	1.8	15.5	220	7.4100	8.9000	0.1050	0.45	28	23	23
4 C X6	-	1.0	0.3	1.4	-	1.24	-	19.5	-	650	-	1.8	17.0	260	4.6100	5.5400	0.0988	0.52	35	30	30
4 C X10	6	1.0	0.3	-	4 X0.8	-	1.40	-	20.0	-	660	1.8	19.0	340	3.0800	3.7000	0.0938	0.60	46	39	40
4 C X16	6	1.0	0.3	-	4 X 0.8	-	1.40	-	23.0	-	750	2.0	21.5	460	1.9100	2.3000	0.0862	0.80	60	50	51
4 C X25	6	1.2	0.3	-	4 X 0.8	-	1.40	-	24.0	-	950	2.0	24.0	600	1.200	1.4400	0.0854	0.84	76	63	70
4 C X35	6	1.2	0.3	-	4 X 0.8	-	1.40	-	27.0	-	1165	2.0	26.5	800	0.868	1.0400	0.0827	0.96	92	77	86
4 C X50	12	1.4	0.4	-	4 X 0.8	-	1.56	-	31.0	-	1540	2.2	32.5	1100	0.641	0.7700	0.0825	0.98	110	95	105
4 C X 70	15	1.4	0.4	-	4 X 0.8	-	1.56	-	35.0	-	1800	2.2	33.5	1400	0.443	0.5330	0.0771	1.12	135	115	130
4 C X95	15	1.6	0.4	-	4 X 0.8	-	1.72	-	38.0	-	2400	2.4	38.5	1850	0.320	0.3850	0.0767	1.16	165	140	155
4 C X120	15	1.6	0.5	-	4 X 0.8	-	1.88	-	42.0	-	2800	2.4	41.5	2250	0.253	0.3050	0.0744	1.28	185	155	180
4 C X150	15	1.8	0.5	-	4 X 0.8	-	1.88	-	46.0	-	3350	2.6	46.0	2750	0.206	0.2490	0.0745	1.26	210	175	205
4 C X185	30	2.0	0.6	-	4 X 0.8	-	2.04	-	51.0	-	4000	2.6	50.5	3400	0.164	0.1980	0.0744	1.28	235	200	240
4 C X 240	30	2.2	0.6	-	4 X 0.8	-	2.36	-	58.0	-	5050	3.0	58.0	4300	0.125	0.1520	0.0740	1.31	275	235	280
4 C X300	53	2.4	0.7	-	4 X 0.8	-	2.52	-	66.0	-	6200	3.4	64.0	5300	0.100	0.1220	0.0732	1.35	305	260	315
4 C X400	53	2.6	0.7	-	4 X 0.8	-	2.84	-	72.0	-	7850	3.6	72.0	6900	0.078	0.0961	0.0727	1.40	335	290	375
4 C X500	53	3.0	0.7	-	4 X 0.8	-	3.00	-	80.0	-	9600	4.0	80.0	8600	0.061	-	-	-	350	310	410

ARMoured CABLES

Cross-sectional view



UNARMoured CABLES

Cross-sectional view



4 CORE COPPER PVC ARMoured & UNARMoured POWER CABLES

No of cores & cross sectional area	Min No of Wires	Thickness of pvc insulation (Nom)	Min Thickness of pvc inner sheath	ARMoured								UNARMoured			Max D.C Resistance at 20	Max A.C Resistance at 70	Approx Reactance at 50 Hz	Approx Capacitance	CURRENT RATING		
				Nominal Dimension of Armour		Min. Thickness of pvc outer sheath (approx)		Overall Diameter (Approx)		Approx Net Wt of Cable		Nom. Thickness of outer sheath	Overall Diameter (Approx)	Net Wt. of Cable (Approx)					Direct in Ground	In Duct	In Air
				Wire	Strip	wire	strip	Wire	Strip	Wire	Strip										
(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(Kg/Km)	(Kg/Km)	(MM)	(MM)	(Kg/Km)	Ohms/Km	Ohms/Km	Ohm/Km	mFd/Km	Amps.	Amps.	Amps.
4 C X1.5	-	0.8	0.3	1.4	-	1.24	-	15.0	-	440	-	1.8	12.5	190	12.100	14.5000	0.1140	0.37	21	17	17
4 C X 2.5	-	0.9	0.3	1.4	-	1.24	-	16.0	-	550	-	1.8	14.0	245	7.410	8.9000	0.1100	0.40	27	24	24
4 C X4.0	-	1.0	0.3	1.4	-	1.24	-	18.0	-	650	-	1.8	15.5	320	4.610	5.5200	0.1060	0.44	36	30	30
4 C X6	-	1.0	0.3	1.4	-	1.24	-	19.5	-	800	-	1.8	17.0	410	3.080	3.6900	0.1001	0.51	45	38	39
4 C X10	6	1.0	0.3	-	4 X0.8	-	1.40	-	20.0	-	910	1.8	19.0	590	1.830	2.1900	0.0907	0.67	60	50	52
4 C X16	6	1.0	0.3	-	4 X 0.8	-	1.40	-	23.0	-	1150	2.0	21.5	860	1.150	1.3800	0.0862	0.80	77	64	66
4 C X25	6	1.2	0.3	-	4 X 0.8	-	1.40	-	24.0	-	1570	2.0	24.0	1220	0.727	0.8700	0.0854	0.84	99	81	90
4 C X35	6	1.2	0.3	-	4 X 0.8	-	1.40	-	27.0	-	2035	2.0	26.5	1670	0.524	0.6300	0.0827	0.96	120	99	110
4 C X50	6	1.4	0.4	-	4 X 0.8	-	1.56	-	31.0	-	2780	2.2	32.5	2340	0.387	0.4640	0.0825	0.98	145	125	135
4 C X 70	12	1.4	0.4	-	4 X 0.8	-	1.56	-	35.0	-	3540	2.2	33.5	3140	0.268	0.3210	0.0771	1.12	175	150	165
4 C X95	15	1.6	0.4	-	4 X 0.8	-	1.72	-	38.0	-	4760	2.4	38.5	4210	0.193	0.2320	0.0767	1.16	210	175	200
4 C X120	18	1.6	0.5	-	4 X 0.8	-	1.88	-	42.0	-	5770	2.4	41.5	5220	0.153	0.1840	0.0744	1.28	240	195	230
4 C X150	18	1.8	0.5	-	4 X 0.8	-	1.88	-	46.0	-	7065	2.6	46.0	6470	0.124	0.1500	0.0745	1.26	270	225	265
4 C X185	30	2.0	0.6	-	4 X 0.8	-	2.04	-	51.0	-	8580	2.6	50.5	7980	0.099	0.1210	0.0744	1.28	300	255	305
4 C X 240	34	2.2	0.6	-	4 X 0.8	-	2.36	-	58.0	-	11000	3.0	58.0	10250	0.075	0.0930	0.0740	1.31	345	295	355
4 C X300	53	2.4	0.7	-	4 X 0.8	-	2.52	-	66.0	-	13625	3.4	64.0	12730	0.060	0.0750	0.0732	1.35	385	335	400
4 C X400	53	2.6	0.7	-	4 X 0.8	-	2.84	-	80.0	-	17750	3.6	72.0	16800	0.047	0.0604	0.0727	1.40	425	360	455