

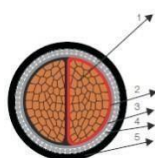
TWO CORE ALUMINIUM PVC ARMoured & UNARMoured POWER CABLES

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 Air
				Wire	Strip	wire	strip	Wire	Strip	Wire	Strip									
		(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.
2 C X1.5	-	0.8	0.3	1.4	-	1.24	-	12.5	-	320	-	1.8	11.0	115	18.100	21.7000	0.1120	0.38	18	16
2 C X2.5	-	0.9	0.3	1.4	-	1.24	-	13.5	-	380	-	1.8	12.0	150	12.100	14.5000	0.1100	0.41	25	21
2 C X4	-	1.0	0.3	1.4	-	1.24	-	15.0	-	450	-	1.8	13.5	185	7.410	8.9000	0.1050	0.45	32	27
2 C X6	-	1.0	0.3	1.4	-	1.24	-	16.0	-	500	-	1.8	14.5	220	4.610	5.5400	0.0988	0.52	40	35
2 C X10	-	1.0	0.3	1.4	-	1.24	-	18.0	-	600	-	1.8	16.0	275	3.080	3.7000	0.0938	0.60	55	47
2 C X16	6	1.0	0.3	-	0.8	-	1.40	-	18.0	-	500	1.8	17.5	285	1.910	2.3000	0.0862	0.80	70	59
2 C X25	6	1.2	0.3	-	0.8	-	1.40	-	20.0	-	650	2.0	19.5	405	1.200	1.4400	0.0854	0.84	90	78
2 C X35	6	1.2	0.3	-	0.8	-	1.40	-	21.5	-	750	2.0	20.5	490	0.868	1.0400	0.0827	0.96	110	99
2 C X50	6	1.4	0.3	-	0.8	-	1.40	-	24.5	-	950	2.0	24.0	650	0.641	0.7700	0.0825	0.98	135	125
2 C X70	12	1.4	0.3	-	0.8	-	1.56	-	28.0	-	1150	2.0	27.0	800	0.443	0.5330	0.0771	1.12	160	150
2 C X95	15	1.6	0.4	-	0.8	-	1.56	-	31.0	-	1460	2.2	28.5	1065	0.320	0.3850	0.0767	1.16	190	185
2 C X120	15	1.6	0.4	-	0.8	-	1.56	-	33.0	-	1670	2.2	33.0	1250	0.253	0.3050	0.0744	1.28	210	210
2 C X150	15	1.8	0.4	-	0.8	-	1.72	-	37.0	-	2010	2.4	34.0	1550	0.206	0.2490	0.0745	1.26	240	240
2 C X185	30	2.0	0.5	-	0.8	-	1.88	-	40.5	-	2450	2.4	37.0	1880	0.164	0.1980	0.0744	1.28	275	275
2 C X240	30	2.2	0.5	-	0.8	-	2.04	-	45.0	-	2950	2.6	42.5	2400	0.125	0.1520	0.0740	1.31	320	325
2 C X300	30	2.4	0.6	-	0.8	-	2.20	-	50	-	3560	2.8	45.5	2920	0.100	0.1220	0.0732	1.35	355	365
2 C X400	53	2.6	0.7	-	0.8	-	2.36	-	56.0	-	4500	3.2	51.5	3815	0.078	0.0961	0.0727	1.40	385	420
2 C X500	53	3.0	0.7	-	0.8	-	2.68	-	62.5	-	5600	3.4	57.0	4750	0.061	-	-	-	410	450

UNARMoured CABLES

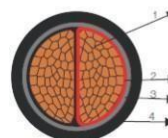
ARMoured CABLES

Cross-sectional view



Conductor Material : Aluminium / Copper as per Class-2 of IS: 8130
 Shape of Conductor : For Al'm Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Shaped
 For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm - Stranded Compacted Circular, 16 Sq.mm and above - Stranded Compacted Shaped
 Insulation Material : PVC Type-A OR HR PVC Type-C as per IS: 5831; Colour : Red & Black
 Inner Sheath : PVC Type ST-1 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
 Armouring : Single Layer of Galvanized Steel Round Wire / Flat Strip
 Outer Sheath : PVC Type ST-1 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
 Colour of Outer Sheath : Black or any other Colour as per requirement

Cross-sectional view



Conductor Material : Aluminium / Copper as per Class-2 of IS: 8130
 Shape of Conductor : For Al'm Cond. - 4, 6 & 10 Sq.mm Solid / Stranded Non Compacted Circular, 16 Sq.mm and above - Stranded Compacted Shaped
 For Cu Cond. - 4 & 6 Sq.mm Solid / Stranded Non Compacted Circular, 10 Sq.mm - Stranded Compacted Circular, 16 Sq.mm and above - Stranded Compacted Shaped
 Insulation Material : PVC Type-A OR HR PVC Type-C as per IS: 5831; Colour : Red & Black
 Inner Sheath : PVC Type ST-1 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
 Outer Sheath : PVC Type ST-1 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
 Colour of Outer Sheath : Black or any other Colour as per requirement

No of cores & cross sectional area	Min No of Wires	Thickness of pvc insulation (Nom)	Min ofThickness 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 Air
				Wire	Strip	wire	strip	Wire	Strip	Wire	Strip									
				(MM)	(MM)	(MM)	(MM)	(MM)	(MM)	(Kg/Km)	(Kg/Km)	(MM)	(MM)	(Kg/Km)					Ohms/Km	Ohms/Km
2 C X1.5	-	0.8	0.3	1.4	-	1.24	-	12.5	-	350	-	1.8	11.0	135	12.100	14.5000	0.1140	0.37	23	20
2 C X2.5	-	0.9	0.3	1.4	-	1.24	-	13.5	-	415	-	1.8	12.0	185	7.410	8.9000	0.1100	0.40	32	27
2 CX 4	-	1.0	0.3	1.4	-	1.24	-	15	-	500	-	1.8	13.5	235	4.610	5.5200	0.1060	0.44	41	35
2 C X6	-	1.0	0.3	1.4	-	1.24	-	16.0	-	580	-	1.8	14.5	295	3.080	3.6900	0.1001	0.51	50	45
2 C X10	6	1.0	0.3	1.4	-	1.24	-	18.0	-	730	-	1.8	16.0	400	1.830	2.1900	0.0907	0.67	70	60
2 C X16	6	1.0	0.3	-	0.8	-	1.40	-	18.0	-	740	1.8	17.5	485	1.150	1.3800	0.0862	0.80	90	78
2 C X25	6	1.2	0.3	-	0.8	-	1.40	-	20.0	-	960	2.0	19.5	715	0.727	0.8700	0.0854	0.84	115	105
2 C X35	6	1.2	0.3	-	0.8	-	1.40	-	21.5	-	1200	2.0	20.5	925	0.524	0.6300	0.0827	0.96	140	125
2 C X50	6	1.4	0.3	-	0.8	-	1.40	-	24.5	-	1580	2.0	24.0	1270	0.387	0.4640	0.0825	0.98	165	155
2 C X70	12	1.4	0.3	-	0.8	-	1.56	-	28.0	-	2020	2	27.0	1670	0.268	0.3210	0.0771	1.12	205	195
2 C X95	15	1.6	0.4	-	0.8	-	1.56	-	31.0	-	2650	2.2	28.5	2250	0.193	0.2320	0.0767	1.16	240	230
2 C X120	18	1.6	0.4	-	0.8	-	1.56	-	33.0	-	3160	2.2	33.0	2750	0.153	0.1840	0.0744	1.28	275	265
2 C X150	18	1.8	0.4	-	0.8	-	1.72	-	37.0	-	3870	2.4	34.0	3410	0.124	0.1500	0.0745	1.26	310	305
2 C X185	30	2.0	0.5	-	0.8	-	1.88	-	40.5	-	4750	2.4	37.0	4170	0.099	0.1210	0.0744	1.28	350	350
2 C X240	34	2.2	0.5	-	0.8	-	2.04	-	45.0	-	5930	2.6	42.5	5370	0.075	0.0930	0.074	1.31	405	410
2 C X300	34	2.4	0.6	-	0.8	-	2.20	-	56.0	-	7300	2.8	45.5	6640	0.060	0.0750	0.0732	1.35	450	465
2 CX 400	53	2.6	0.7	-	0.8	-	2.36	-	55.9	-	9450	3.2	51.5	8770	0.047	0.0604	0.0727	1.40	490	530