Marino

CABLES

EXPORTERS & MANUFACTURERS OF WIRES & CABLES



Welcome to Marino Cables

Marino Cables has been one of the leading manufacturer of wires & Cables since the year 1992. We have a modern manufacturing plant in Delhi(India) which produces LT PVC & XLPE Cables up to 1.1KV and Control Cables, Aerial Bunches Cables and others as per relevant specification. We also make special type of cables like FRLS Sheathing, HR Insulated and Sheathing & Halogen Free Wire and Cables.

We supply cables to domestic as well as international markets. The organization has been recognized by the government of India as a star rated export house.

Excellent quality of cables is manufactured to match Indian and International Standard by maintaining quality control at every stage of manufacturing. All the test are conducted to the relevant specification at our well-equipped and certified laboratory which have all the latest testing apparatus under the supervision of qualified and experienced engineers.

Our Products

LT Pvc Cables

LT Xlpe Cables

Aerial Bunched Cables - House Wires And Cables

Testing Equipments

Insulation Resistance Tester -Standard Resistance Box

AC High Voltage Tester -Cable Fault Locater

DC High Voltage Tester

Digital Micro Ohm Meter -With 1 Metre Attachment -Portable

Digital Capacitance Meter

Spark Tester

Thermostaytically Controlled Water Bath -Water Absorption

Tester



FOUNDER

Mr Rajesh Jindal is the Founder of Marino Cables. He started business 32 years back from a very small level but had a great vision in mind to achieve great success in life. He pursued his business with full of heart and honesty which helped him in flourishing the business.

He is well recognised in the society as he has done given great contribution and played a vital role for the welfare of the soceity. He is also associated with many organizations that work for the welfare of the society. He was the President of the Guru Prem Sukh Memorial College of Engineering and he has served for more than 12 years as a social worker. He has been awarded many Social and Business awards.

MARINO CABLE having the latest modern plant at Delhi (India) for manufacturing of various size & type of LT PVC & XLPE Cables upto 1.1 KV, Control Cables, Aerial Bunched Cables and others as per relevant specification. We also make special type of cables like FRLS Sheathing, HR Insulated and Sheathing & Halogen Free Wire and Cables. We supply the cables in Electricity Boards, Reputed Contractors and Govt. & Private Deptt. We also export to many countries.

Excellent quality of cables manufactured to Indian and International Standard is maintained by strict quality control at every stage of manufacture. All test conduct to the relevant specificationat our well equipped laboratory under the supervision of qualified and decade experienced engineers.

Our present product range are as under:

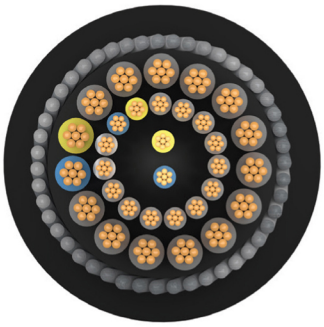
	Cable Type	Grade	Mfg. range	Relevant Specification
1.	PVC Power Cables with Alm. & Copper Conductors	1.1 KV	S/core upto 1000 mm^2 Multi core upto 630 mm^2	IS: 1554 (PT-I) 1988
2.	PVC Control Cables with Copper Conductor	1.1 KV	upto 61 cores	IS: 1554 (PT-I) 1988
3.	XLPE Power Cables with Alm. & Copper Conductors	1.1 KV	S/core upto 1000 mm^2 Multi core upto 630 mm^2	IS: 7098 (PT-I) 1988
4.	XLPE Control Cables with Copper Conductor	1.1 KV	upto 61 cores	IS: 7098 (PT-I) 1988
5.	PVC Flexible Wires & Cables	–	0.50 mm^2 120 mm^2 Single Core & Multi Core	IS: 694 2010
6.	PVC insulated Wire & Cables	1.1 KV	Upto 630 mm^2 for single core /120 mm^2 for Multi core	IS: 694 2010
7.	Arial Bunched Cables*	–	Multicore upto 95 mm^2	IS: 14255 1995
8.	PVC-FR, ZHFR wires	–	0.50 mm^2 120 mm^2 Single Core & Multi Core	IS: 694 2010
9.	FRLS Sheathing Cables	–	–	As per ASTMD & IEC, SS and Indian Standards
10.	All Aluminium conductor (AAC)	–	25 to 300 mm^2	IS: 398 (PT-I) 1996
11.	Aluminium Conductor Steel Reinforced (ACSR)	–	16 to 560 mm^2	IS: 398 (PT-II) 1996

*** Arial Bunched Cables & Conductors may be mfg. as per customer additional requirement & specifications.**

We have always remained focused on product innovation and upgradation to retain our market leadership in our segment. Our present bouquet enables our clients to buy his entire requirements from one source, us.

- LOW VOLTAGE COPPER/ALUMINIUM CONDUCTOR PVC & XLPE POWER CABLES
- LOW VOLTAGE PVC & XLPE CONTROL CABLES
- FRLS / FR / HR / HFFR / HOFR / RUBBER / LDPE / LSOH POWER CONTROL
- FLEXIBLES (SINGLE & MULTICORE)
- HOUSEWIRES (FR / FRLS / HRPVC / LSOH)
- FIRE SURVIVAL
- WELDING CABLES/RUBBER CABLES
- FLAT CABLE
- MINING CABLE
- ARIAL BUNCHED CABLE
- CONDUCTORS





Current Ratings Of 1.1 Kv Copper Conductor Pvc Insulated Control Cables (In Amp)

No. Of Cores	General Purpose Pvc Insulation				Heat Resistance Pvc Insulation			
	1.5 Sqmm		2.5 Sqmm		1.5 Sqmm		2.5 Sqmm	
	In Ground	In Air	In Ground	In Air	In Ground	In Air	In Ground	In Air
2	23	20	32	27	26	24	38	32
3	21	17	27	24	24	21	30	28
4	21	17	27	24	24	21	30	28
5	21	17	27	24	24	21	30	28
6	15	13	21	18	17	16	24	21
7	14	13	20	17	16	15	22	20
10	13	11	18	15	15	13	20	16
12	12	10	17	14	14	12	19	16
14	11	10	16	13	13	12	18	15
16	11	9	15	13	13	11	17	15
19	10	9	14	12	11	11	16	14
24	9	8	13	11	10	10	14	13
27	9	8	12	10	10	10	13	12
30	9	7	12	10	10	8	13	12
37	8	7	11	9	9	8	12	10
44	7	7	10	9	8	7	11	10
52	6	6	9	8	7	7	10	10
61	6	6	8	8	7	7	9	9

Current Ratings For Aluminium Conductor Armoured/Unarmoured Pvc Power Cables(In Amps)

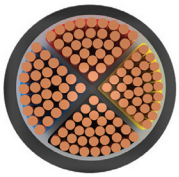
Nominal Area of Conductor	Single Core Cables			Twin Core Cables			Multi Core Cables		
Sqmm	Direct In Ground	In Ducts	In Air	Direct In Ground	In Ducts	In Air	Direct In Ground	In Ducts	In Air
1.5.	17	17	15	18	16	16	16	14	13
2.5.	24	24	21	25	21	21	21	18	18
4	31	30	27	32	27	27	28	23	23
6	39	37	35	40	34	35	35	30	30
10	51	51	47	55	45	47	46	39	40
16	66	65	64	70	58	59	60	50	51
25	86	84	84	90	76	78	76	63	70
35	100	96	105	110	92	99	92	77	86
50	120	115	130	135	115	125	110	95	105
70	140	135	155	160	140	150	135	115	130
95	175	155	190	190	170	165	165	140	155
120	195	170	220	210	190	210	185	155	180
150	220	190	250	240	210	240	210	175	205
185	240	210	290	275	240	275	235	200	240
240	270	225	335	320	275	325	275	235	280
300	295	245	380	355	305	365	305	260	315
400	325	275	435	385	345	420	335	290	375
500	345	295	480	–	–	–	–	–	–
630	390	320	550	–	–	–	–	–	–
800	440	350	640	–	–	–	–	–	–
1000	490	380	720	–	–	–	–	–	–

Current Ratings For Copper Conductor Armoured/Unarmoured Pvc Power Cables(In Amps)

Nominal Area of Conductor	Single Core Cables			Twin Core Cables			Multi Core Cables		
Sqmm	Direct In Ground	In Ducts	In Air	Direct In Ground	In Ducts	In Air	Direct In Ground	In Ducts	In Air
1.5	22	21	20	23	20	20	21	17	17
2.5	30	29	27	32	27	27	27	24	24
4	39	38	35	41	35	35	36	30	30
6	49	48	44	50	44	45	45	38	39
10	65	64	60	70	58	60	60	50	52
16	85	83	82	90	75	78	77	64	66
25	110	110	110	115	97	105	99	81	90
35	130	125	130	140	120	125	120	99	110
50	155	150	165	165	145	155	145	125	135
70	190	175	205	205	180	195	175	150	165
95	220	200	245	240	215	230	210	175	200
120	250	220	280	275	235	265	240	195	230
150	280	245	320	310	270	305	270	225	265
185	305	260	370	350	300	350	300	255	305
240	345	285	425	405	345	410	345	295	355
300	375	310	475	450	38E	465	385	335	400
400	400	335	550	490	425	530	425	360	455
500	425	355	590	–	–	–	–	–	–
630	470	375	660	–	–	–	–	–	–

Current Ratings Of 1.1 In Hr-Pvc Insulated Aluminium Conductor Cables (In Amp)

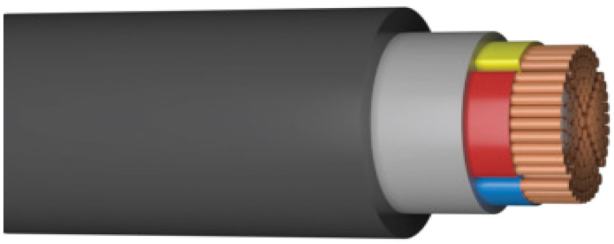
Nominal Area of Conductor	Single Core		Twin Core		Multi Core	
Sqmm	In Ground	In Air	In Ground	In Air	In Ground	In Air
1.5	19	18	21	19	18	16
2.5	27	25	29	25	24	22
4	35	32	36	33	32	28
6	44	42	46	40	42	36
10	58	57	63	52	57	48
16	75	77	80	58	71	62
25	98	102	103	87	94	85
35	114	127	125	105	120	104
50	136	157	154	126	151	127
70	159	188	182	154	182	157
95	199	230	217	188	224	188
120	222	266	239	211	254	218
150	251	303	274	239	290	248
185	274	351	314	258	333	290
240	308	405	365	310	393	339
300	336	460	405	348	442	381
400	371	526	439	382	508	450
500	393	581	–	–	–	–
630	445	666	–	–	–	–
800	502	726	–	–	–	–
1000	559	871	–	–	–	–

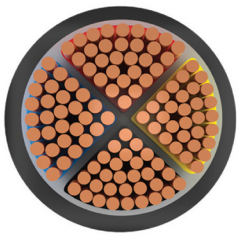




Current Ratings Of 1.1 In Hr-Pvc Insulated Copper Conductor Cables (In Amp)

Nominal Area of Conductor	Single Core		Twin Core		Multi Core	
Sqmm	In Ground	In Air	In Ground	In Air	In Ground	In Air
1.5	25	24	26	24	24	21
2.5	34	33	38	32	30	28
4	45	43	47	43	41	37
6	55	54	57	55	51	47
10	74	73	80	73	69	63
16	97	100	103	95	88	80
25	126	134	132	128	113	110
35	149	158	160	152	137	134
50	177	198	189	186	166	164
70	217	246	–	–	200	198
95	252	294	–	–	240	240
120	286	336	–	–	275	276
150	320	384	–	–	309	318
185	349	444	–	–	343	366
240	395	510	–	–	395	426
300	429	570	–	–	440	480
400	458	660	–	–	486	546
500	486	708	–	–	–	–
630	538	792	–	–	–	–
800	606	–	–	–	–	–
1000	675	–	–	–	–	–





Capacitance Of 1.1 Kv Grade Pvc Insulated Cables

Nominal Cross Sectional Area Of Conductor	Single Core Cable		Twin & Multicore Cable
	Unarmoured	Armoured	
Sqmm	Ohm/Km	Ohm/Km	Ohm/Km
1.5	–	–	0.14
2.5	–	–	0.15
4	0.58	0.47	0.16
6	0.68	0.56	0.19
10	0.83	0.67	0.22
16	1.01	0.81	0.29
25	1.05	0.87	0.32
35	1.22	1.00	0.37
50	1.22	1.03	0.37
70	1.43	1.21	0.44
95	1.47	1.27	0.44
120	1.62	1.42	0.49
150	1.62	1.42	0.49
185	1.62	1.44	0.49
240	1.72	1.53	0.50
300	1.74	1.56	0.52
400	1.81	1.56	0.53
500	1.76	1.57	0.51
630	1.77	1.57	0.49
800	1.98	1.75	–
1000	2.20	1.94	–

Reactance Of 1.1 Kv Grade Pvc Insulated Cables At 50 Hz

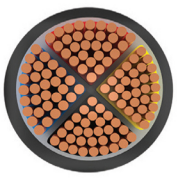
Nominal Cross Sectional Area Of Conductor	Single Core Cable		Twin & Multicore Cable
	Unarmoured	Armoured	
Sqmm	Ohm/Km	Ohm/Kma	Ohm/Kma
1.5	–	–	0.126
2.5	–	–	0.119
4	0.137	0.158	0.116
6	0.127	0.148	0.110
10	0.118	0.138	0.100
16	0.110	0.128	0.097
25	0.105	0.120	0.097
35	0.100	0.114	0.097
50	0.098	0.110	0.094
70	0.091	0.103	0.090
95	0.088	0.101	0.090
120	0.086	0.096	0.087
150	0.085	0.094	0.087
185	0.084	0.092	0.087
240	0.082	0.090	0.087
300	0.080	0.088	0.086
400	0.080	0.088	0.086
500	0.079	0.087	0.046
630	0.077	0.086	0.040
800	0.077	0.083	–
1000	0.076	0.082	–

Short Circuit Rating Of 1.1 Kv Grade Pvc Insulated Cables (For Duration Of One Second)

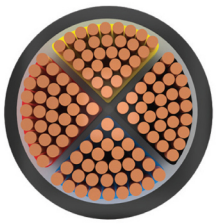
Nominal Cross Sectional Area of Conductor	Aluminium Conductor		Copper Conductor	
	With General Purpose Insulation	With Heat Resisting insulation	With General Purpose Insulation	With Heat Resisting insulation
Sqmm	K Amps	K Amps	K Amps	K Amps
1.5	0.114	0.103	0.173	0.156
2.5	0.190	0.172	0.288	0.260
4	0.304	0.274	0.460	0.416
6	0.456	0.412	0.690	0.624
10	0.760	0.686	1.150	1.040
16	1.216	1.098	1.840	1.664
25	1.900	1.715	2.875	2.600
35	2.66	2.401	4.025	3.640
50	3.800	3.430	5.750	5.200
70	5.320	4.802	8.050	7.280
95	7.220	6.517	10.925	9.880
120	9.120	8.232	13.800	12.480
150	11.400	10.290	17.250	15.600
185	14.060	12.691	21.275	19.240
240	18.240	16.464	27.600	24.960
300	22.800	20.580	34.500	31.200
400	30.400	27.440	46.000	41.600
500	38.000	34.300	57.500	52.000
630	47.880	43.218	72.450	65.520
800	60.800	54.880	92.000	83.200
1000	76.000	68.600	115.000	104.000

Maximum A.c/D.c Resistance Of Conductor For Pvc Cables In Ohm/Km

Nominal Cross Sectional Area of Conductor	Max. D.C Resistance At 20 Deg. C		Max. A.C Resistance At 70 Deg. C	
	Plain Copper Conductor	Aluminium Conductor	Plain Copper Conductor	Aluminium Conductor
Sqmm	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km
1.5	12.1	18.1	14.52	21.72
2.5	7.41	12.1	8.89	14.52
4	4.61	7.41	5.53	8.89
6	3.08	4.61	3.70	5.53
10	1.83	3.08	2.20	3.70
16	1.15	1.91	1.38	2.29
25	0.727	1.20	0.872	1.440
35	0.524	0.868	0.629	1.042
50	0.387	0.641	0.464	0.769
70	0.268	0.443	0.322	0.532
95	0.193	0.320	0.232	0.384
120	0.153	0.253	0.184	0.304
150	0.124	0.206	0.149	0.247
185	0.0991	0.164	0.1189	0.1968
240	0.0754	0.125	0.0905	0.1500
300	0.0601	0.1000	0.0721	0.1200
400	0.0470	0.0778	0.0564	0.0934
500	0.0366	0.0605	0.0439	0.0726
630	0.0283	0.0469	0.0340	0.0563
800	0.0221	0.0367	0.0265	0.0440
1000	0.0176	0.0291	0.0211	0.0349









Rating Factors

Standard conditions of installation :

Maximum continous operating conductor temperature -70°C

Standard ground temperature = 30°C

Ambient air temperature = 40°C

Thermal Resistivity of soil = 150°C cm/watt

Thermal Resistivity of PVC = 650°C cm/watt

Depth of laying (for cables laid direct in ground)

= 75 cm for 1.1Kv & 90 cm for 3.3Kv

Rating Factors For Variation In Ambient Air Temperature:

Air Temperature - °C	20	25	30	35	40	45	50
Rating Factors	1.33	1.25	1.16	1.09	1.00	0.90	0.83

Rating Factors For Variation In Ground Temperature For Cables Laid Direct In The Ground & In Ducts

Ground Temperature - °C	15	20	25	30	35	40	45
Rating Factors	1.17	1.12	1.06	1.00	0.94	0.87	0.79

Rating Factors For Depth Of Laying For Cables

Depth of laying (cm)	75	90	105	120	150	180 or more
Upto 25 Sqmm 1.00	1.00	0.99	0.98	0.97	0.96	0.95
Above 25 Sqmm upto 300 SQmm 1.00	1.00	0.98	0.97	0.96	0.94	0.93
Above 300 Sqmm	1.00	0.97	0.96	0.95	0.92	0.91

Rating Factors For Depth Of Laying Twin & Multicore Cables In Single Way Ducts

Depth of laying (cm)	Rating Factor
75	1
90	0.99
105	0.98
120	0.97
150	0.96
180	0.95
270	0.92
360	0.91
450	0.90
540 or more	0.89

Rating Factors For The Single Core Cables (Ac) In Flat Formation In Air (To Be Applied To The Corresponding Ratings For Trefoil Groups In Air)

Nominal area of conductor (Sqmm)	Rating Factor
Upto & including 185	1.07
240	1.1
300	1.08
400	1.04
500	1
630	1

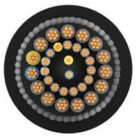
Copper Conductor Pvc Insulated Armoured/Unarmoured Control Cables 1.5 Sq.mm

No. of Cores & cross sectional area	Min. Thickness of PVC inner sheath	ARMOURED							UNARMOURED		
		YWY(WIRE ARMOURED)				YFY(STRIP ARMOURED)			YY		
		Nominal Dimensions of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable	Nom. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable
Sqmm	mm	mm	mm	mm	Kg/Km	mm	mm	Kg/Km	mm	mm	Kg/Km
2Cx1.5	0.3	1.40	1.24	14	400	–	–	–	1.8	12.5	185
3Cx1.5	0.3	1.40	1.24	14.5	450	–	–	–	1.8	13	190
4Cx1.5	0.3	1.40	1.24	15	510	–	–	–	1.8	13.5	225
5Cx1.5	0.3	1.40	1.24	16	520	–	–	–	1.8	14	260
6Cx1.5	0.3	1.40	1.24	17	570	–	–	–	1.8	15	295
7Cx1.5	0.3	1.40	1.24	17	595	–	–	–	1.8	15	315
10Cx1.5	0.3	1.40	1.40	21	800	–	–	–	1.8	18.5	425
12Cx1.5	0.3	1.60	1.40	21.5	905	1.24	19.5	740	1.8	19	480
14Cx1.5	0.3	1.60	1.40	22.5	1010	1.40	21	820	1.80.	20	535
16Cx1.5	0.3	1.60	1.40	23.5	1100	1.40	22	890	1.8	21	595
19Cx1.5	0.3	1.60	1.40	25	1230	1.40	23	1020	2	22.5	720
24Cx1.5	0.3	1.60	1.40	28	1450	1.40	26.5	1220	2	26	880
27Cx1.5	0.3	1.60	1.40	28.5	1530	1.40	27	1320	2	26.5	960
30Cx1.5	0.3	1.60	1.40	29.5	1650	1.40	28	1400	2	27.5	1040
37Cx1.5	0.3	1.60	1.40	31.5	1900	1.40	30	1630	2	29	1230

1. Insulation Thickness is 0.8 mm (Nom.) for all cables. 2. Strip Armouring is of 4x0.8 mm. 3. Type of cond. solid

Copper Conductor Pvc Insulated Armoured/Unarmoured Control Cables 2.5 Sq.mm

No. of Cores & cross sectional area	Min. Thickness of PVC inner sheath	ARMOURED							UNARMOURED		
		YWY(WIRE ARMOURED)				YFY(STRIP ARMOURED)			YY		
		Nominal Thickness of PVC inner Sheath	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable	Nom. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable
Sqmm	mm	mm	mm	mm	Kg/Km	mm	mm	Kg/Km	mm	mm	Kg/Km
2Cx2.5	0.3	1.40	1.24	15.5	475	–	–	–	1.80	13.5	230
3Cx2.5	0.3	1.40	1.24	16	520	–	–	–	1.80	14	240
4Cx2.5	0.3	1.40	1.24	17	590	–	–	–	1.80	15	290
5Cx2.5	0.3	1.40	1.24	17.5	660	–		–	1.80	16	335
6Cx2.5	0.3	1.40	1.24	19	733	–	–	–	1.80	17	385
7Cx2.5	0.3	1.40	1.24	19	770	–	–	–	1.80	17	420
10Cx2.5	0.3	1.60	1.40	23.5	1100	1.40	21	900	1.80	21	570
12Cx2.5	0.3	1.60	1.40	24.5	1250	1.40	22	1000	2.00	22.5	690
14Cx2.5	0.3	1.60	1.40	25.5	1340	1.40	24	1100	2.00	23.5	775
16Cx2.5	0.3	1.60	1.40	26.5	1455	1.40	25	1200	2.00	24.5	860
19Cx2.5	0.3	1.60	1.40	27.5	1605	1.40	26	1320	2.00	25.5	985
24Cx2.5	0.3	1.60	1.56	31	1970	1.40	30	1600	2.00	29.5	1215
27Cx2.5	0.3	1.60	1.56	32	2100	1.40	31	1750	2.00	30	1330
30Cx2.5	0.3	1.60	1.56	33.5	2250	1.56	32	2000	2.00	31	1450
37Cx2.5	0.4	2.00	1.56	37	2950	1.56	35	2400	2.20	34	1790





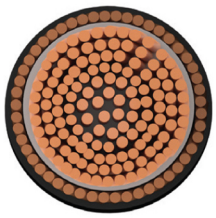
1. Insulation Thickness is 0.90 mm (Nom.) for all cables. 2. Strip Armouring is of 4x0.8 mm. 3. Type of cond solid

1 Core 1.1 Kv Aluminium/Copper Pvc Insulated Armoured Power Cables

No. of Cores & cross sectional area	ARMOURED										
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)			
	Thickness of Insulation (Nom.)	Nominal Dimensions of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor	Nominal Dimensions of Armour Strip Sheath	Min. Thickness of PVC Outer	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
1Cx6	1.30	1.40	1.24	12	170	215	–	–	–	–	–
1Cx10	1.30	1.40	1.24	13	200	255	–	–	–	–	–
1Cx16	1.30	1.40	1.24	14	230	330	–	–	–	–	–
1Cx25	1.50	1.40	1.24	15	300	440	–	–	–	–	–
1Cx35	1.50	1.40	1.24	16	340	550	–	–	–	–	–
1Cx50	1.70	1.40	1.24	18	420	720	–	–	–	–	–
1 Cx70	1.70	1.40	1.40	20	530	970	–	–	–	–	–
1 Cx95	1.90	1.60	1.40	22	690	1280	4x0.8	1.4	21	640	1220
1Cx120	1.90	1.60	1.40	24	790	1540	4x0.8	1.4	23	750	1490
1Cx150	2.10	1.60	1.40	26.5	930	1860	4x0.8	1.4	24	870	1810
1Cx185	2.30	1.60	1.40	28.5	1100	2230	4x0.8	1.4	27	1040	2180
1Cx240	2.50	1.60	1.56	31.5	1370	2850	4x0.8	1.4	30	1280	2780
1 Cx300	2.70	1.60	1.56	34	1620	3480	4x0.8	1.56	32	1560	3420
1 Cx400	3.00	2.00	1.56	39	2080	4560	4x0.8	1.56	37	1920	4380
1 Cx500	3.40	2.00	1.72	41	2600	5700	4x0.8	1.56	40	2370	5480
1Cx630	3.90	2.00	1.88	48	3270	7150	4x0.8	1.72	45	3020	6950
1Cx800	3.90	2.00	1.88	52	3910	8930	4x0.8	1.88	49	3680	8620
1Cx1000	3.90	2.50	2.04	58	4830	10050	4x0.8	2.04	55	4430	10600

1 Core 1.1 Kv Aluminium/Copper Pvc Insulated Unarmoured

No. of Cores & cross sectional area	UNARMOURED				
	YY				
	Thickness of insulation (Nom)	Nom. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sqmm	mm	mm	mm	Kg/Km	Kg/Km
1Cx6	1.00	1.80	9	110	130
1Cx10	1.00	1.80	10	130	190
1Cx16	1.00	1.80	11	160	260
1Cx25	1.20	1.80	12	220	360
1Cx35	1.20	1.80	13	260	470
1Cx50	1.40	1.80	15	330	620
1Cx70	1.40	1.80	17	410	840
1Cx95	1.60	1.80	19	530	1060
1Cx120	1.60	2.00	21	640	1300
1Cx150	1.80	2.00	23	770	1680
1Cx185	2.00	2.00	25	920	2050
1Cx240	2.20	2.00	28	1160	2600
lCx300	2.40	2.00	30	1390	3250
lCx400	2.60	2.20	35	1760	4150
1Cx500	3.00	2.20	38	2200	5230
1Cx630	3.40	2.40	43	2820	6660
1Cx800	3.40	2.40	48	3430	8300
1Cx1000	3.40	2.60	53	4180	10300



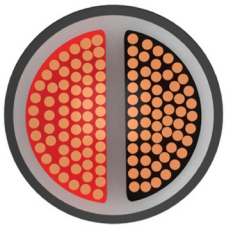


2 Core 1.1 In Aluminium/Copper Pvc Insulated Armoured Power Cables

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of XLPE inner sheath	ARMOURED									
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)				
			Nominal Dimensions of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor	Nominal Dimensions of Armour Strip	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sqmm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
2Cx4	1.00	0.3	1.40	1.24	15.0	455	505	–	–	–	–	–
2Cx6	1.00	0.3	1.40	1.24	17.5	630	710	–	–	–	–	–
2Cx10	1.00	0.3	1.40	1.24	19	740	860	–	–	–	–	–
2Cx16	1.00	0.3	1.60	1.40	22.5	800	910	4x0.8	1.40	20.5	600	750
2Cx25	1.20	0.3	1.60	1.40	23	890	1190	4x0.8	1.40	21	690	990
2Cx35	1.20	0.3	1.60	1.40	24	1030	1450	4x0.8	1.40	22.5	800	1220
2Cx50	1.40	0.3	1.60	1.56	27	1260	1830	4x0.8	1.40	25	980	1550
2Cx70	1.40	0.3	1.60	1.56	29.5	1490	2310	4x0.8	1.56	28	1200	2030
2Cx95	1.60	0.4	2.00	1.56	34	2030	3180	4x0.8	1.56	31.5	1500	2640
2Cx120	1.60	0.4	2.00	1.72	36.5	2320	3760	4x0.8	1.56	33.5	1730	3170
2Cx150	1.80	0.4	2.00	1.72	39.5	2650	4440	4x0.8	1.72	37	2040	3830
2Cx185	2.00	0.5	2.00	1.88	43	3120	5350	4x0.8	1.88	41	2450	4680
2Cx240	2.20	0.5	2.50	2.04	49	4150	7090	4x0.8	2.04	45.5	3020	5950
2Cx300	2.40	0.6	2.50	2.20	53.5	4860	8550	4x0.8	2.20	50	3640	7320
2Cx400	2.60	0.6	3.15	2.52	60.5	6450	11160	4x0.8	2.36	55.5	4470	9180

2 Core 1.1 Kv Aluminium/Copper Pvc Insulated Unarmoured Power Cables

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	UNARMOURED			
			YY			
			Nom. Thickness of PVC Outer Wire	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km
2Cx4	1.00	0.3	1.80	13.5	190	242
2Cx6	1.00	0.3	1.80	14.5	320	400
2Cx10	1.00	0.3	1.80	16.0	390	520
2Cx16	1.00	0.3	1.80	17.8	330	520
2Cx25	1.20	0.3	2.00	18.7	460	770
2Cx35	1.20	0.3	2.00	20.2	550	970
2Cx50	1.40	0.3	2.00	22.7	690	1260
2Cx70	1.40	0.3	2.00	25.3	850	1680
2Cx95	1.60	0.4	2.20	29.0	1130	2280
2Cx120	1.60	0.4	2.20	31.0	1310	2750
2Cx150	1.80	0.4	2.40	34.5	1580	3370
2Cx185	2.00	0.5	2.40	37.5	1910	4140
2Cx240	2.20	0.5	2.60	42.5	2420	5350
2Cx300	2.40	0.6	2.80	46.5	2960	6650
2Cx400	2.60	0.6	3.20	52.5	3760	8470



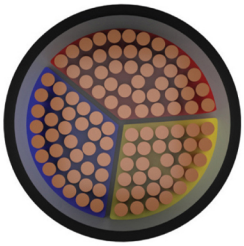


3 Core 1.1 In Aluminium/Copper Pvc Insulated Armoured Power Cables

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	ARMOURED									
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)				
			Nominal Dimensions of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor	Nominal Dimensions of Armour Strip Sheath	Min. Thickness of PVC Outer	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sqmm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
3Cx4	1.00	0.3	1.4	1.24	15.8	505	580	–	–	–	–	–
3Cx6	1.00	0.3	1.40	1.24	17.5	680	790	–	–	–	–	–
3Cx10	1.00	0.3	1.40	1.40	19.5	830	1020	–	–	–	–	–
3Cx16	1.00	0.3	1.60	1.40	21	880	1160	4x0.8	1.40	19.5	680	960
3Cx25	1.20	0.3	1.60	1.40	24	1110	1560	4x0.8	1.40	22.5	870	1320
3Cx35	1.20	0.3	1.60	1.40	25.5	1290	1920	4x0.8	1.40	24	1010	1640
3Cx50	1.40	0.3	1.60	1.56	29	1580	2440	4x0.8	1.56	27.5	1290	2150
3Cx70	1.40	0.4	2.00	1.56	33	2120	3360	4x0.8	1.56	30.5	1590	2830
3Cx95	1.60	0.4	2.00	1.72	37.5	2620	4330	4x0.8	1.56	34.5	1970	3680
3Cx120	1.60	0.4	2.00	1.72	40.5	3000	5170	4x0.8	1.72	38	2340	4500
3Cx150	1.80	0.5	2.00	1.88	44	3500	6180	4x0.8	1.88	41.5	2780	5460
3Cx185	2.00	0.5	2.50	2.04	49	4510	7860	4x0.8	1.88	45.5	3310	6650
3Cx240	2.20	0.6	2.50	2.20	55.5	5530	9930	4x0.8	2.20	52	4170	8580
3Cx300	2.40	0.6	2.50	2.36	60	6540	12080	4x0.8	2.36	56.5	5040	10580
3Cx400	2.60	0.7	3.15	2.68	69.5	8580	15640	4x0.8	2.52	64.5	6160	13220

3 Core 1.1 Kv Aluminium/Copper Pvc Insulated Unarmoured Power Cables

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	UNARMOURED			
			YY			
			Nom. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km
3C X 4	1.00	0.3	1.80	14.0	215	315
3C X 6	1.00	0.3	1.80	14.4	350	470
3C X 10	1.00	0.3	1.80	15.6	440	630
3C X 16	1.00	0.3	1.80	16.8	490	720
3CX25	1.20	0.3	2.00	20.2	610	1060
3CX35	1.20	0.3	2.00	21.7	730	1360
3CX50	1.40	0.3	2.00	24.8	920	1780
3CX70	1.40	0.4	2.20	28.5	1210	2450
3CX95	1.60	0.4	2.20	31.6	1560	3270
3CX120	1.60	0.4	2.20	34.7	1820	3990
3CX150	1.80	0.5	2.40	38.9	2230	4910
3CX185	2.00	0.5	2.60	44.5	2730	6080
3CX240	2.20	0.6	2.80	49.0	3480	7880
3CX300	2.40	0.6	3.00	53.5	4260	9800
3CX400	2.60	0.7	3.40	62.0	5400	12460



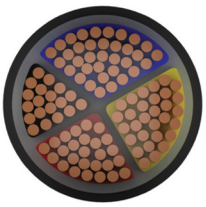


3.5 Core 1.1 Kv Aluminium/Copper Pvc Insulated Armoured Power Cables

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of XLPE inner sheath	ARMOURED									
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)				
			Nominal Dimensions of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor	Nominal Dimensions of Armour Strip	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sqmm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
3.5Cx25	1.2/1.0	0.3	1.60	1.40	26.5	1250	1790	4x0.8	1.40	25	980	1530
3.5Cx35	1.2/1.0	0.3	1.60	1.40	27.5	1430	2160	4x0.8	1.40	26	1150	1880
3.5Cx50	1.4/1.2	0.3	1.60	1.56	31	1780	2790	4x0.8	1.56	29.5	1450	2460
3.5Cx70	1.4/1.2	0.4	2.00	1.56	36	2360	3810	4x0.8	1.56	33.5	1780	3230
3.5Cx95	1.6/1.4	0.4	2.00	1.72	40	2970	4970	4x0.8	1.56	37.5	2270	4270
3.5Cx120	1.6/1.4	0.5	2.00	1.88	43	3480	6060	4x0.8	1.72	41	2700	5280
3.5Cx150	1.8/1.4	0.5	2.00	1.88	48	3960	7060	4x0.8	1.88	45.5	3160	6260
3.5Cx185	2.0/1.6	0.5	2.50	2.04	53.5	5130	9050	4x0.8	2.04	50	3830	7750
3.5Cx240	2.2/1.6	0.6	2.50	2.36	60	6290	11420	4x0.8	2.20	57	4750	9880
3.5Cx300	2.4/1.8	0.6	3.15	2.52	66	8080	14500	4x0.8	2.36	61.5	5730	12160
3.5Cx400	2.6/2.0	0.7	3.15	2.68	75	9740	17920	4x0.8	2.68	70	7120	15300

3.5 Core 1.1 In Aluminium/Copper Pvc Insulated Unarmoured Power Cables

No. of Cores & cross sectional area	Thickness of Insulation (Nom.) main/ neutral	Min. Thickness of PVC inner sheath	UNARMOURED			
			YY			
			Nom. Thickness of PVC Outer sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km
3.5Cx25	1.2/1.0	0.3	2.00	22.7	700	1250
3.5Cx35	1.2/1.0	0.3	2.00	24.0	830	1560
3.5Cx50	1.4/1.2	0.3	2.00	27.0	1060	2070
3.5Cx70	1.4/1.2	0.4	2.20	31.0	1380	2830
3.5Cx95	1.6/1.4	0.4	2.20	35.0	1790	3790
3.5Cx120	1.6/1.4	0.5	2.40	40.0	2190	4770
3.5Cx150	1.8/1.4	0.5	2.40	42.3	2550	5640
3.5Cx185	2.0/1.6	0.5	2.60	46.8	3150	7070
3.5Cx240	2.2/1.6	0.6	3.00	54.5	4050	9170
3.5Cx300	2.4/1.8	0.6	3.20	59.0	4940	11370
3.5Cx400	2.6/2.0	0.7	3.40	67.0	6200	14380



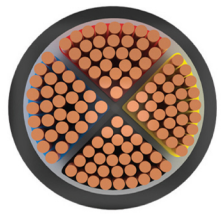


4 Core 1.1 In Aluminium/Copper Pvc Insulated Armoured Power Cables

No. of cores & sectional area	Thickness of Insulation (Nom).	Min. Thichness of PVC Inner sheath	ARMOURED										
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)					
			Nominal Dimensions of Armour Wire	Min. Thichness of PVC Outer sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor	Nominal Dimensions of Armour Strip Sheath	Min. Thichness of PVC Outer	Overall Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	Mal	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
4Cx4	1.00	0.3	1.40	1.24	18.30	553	628	–	–	–	–	–
4Cx6	1.00	0.3	1.40	1.24	19.00	700	950	–	–	–	–	–
4Cx10	1.00	0.3	1.60	1.40	23.00	1020	1270	–	–	–	–	–
4Cx16	1.00	0.3	1.60	1.40	25.00	1040	1420	4x0.8	1.40	23.0	820	1200
4Cx25	1.20	0.3	1.60	1.40	27.00	1330	1940	4x0.8	1.40	25.0	1060	1670
4Cx35	1.20	0.3	1.60	1.56	30.00	1590	2440	4x0.8	1.40	27.5	1260	2110
4Cx50	1.40	0.4	2.00	1.56	34.50	2150	3290	4x0.8	1.56	32.0	1590	2730
4Cx70	1.40	0.4	2.00	1.56	38.00	2620	4270	4x0.8	1.56	36.5	1970	3620
4Cx95	1.60	0.4	2.00	1.72	42.50	3230	5530	4x0.8	1.72	40.0	2510	4810
4Cx120	1.60	0.5	2.00	1.88	47.00	3770	6660	4x0.8	1.88	44.5	2990	5880
4Cx150	1.80	0.5	2.50	2.04	51.50	4800	8370	4x0.8	1.88	48.0	3520	7090
4Cx185	2.00	0.6	2.50	2.20	57.00	5720	10180	4x0.8	2.04	53.0	4260	8720
4Cx240	2.20	0.6	2.50	2.36	64.00	6930	12810	4x0.8	2.36	60.0	5370	11240
4Cx300	2.40	0.7	3.15	2.68	71.00	9110	16490	4x0.8	2.52	65.5	6510	13890
4Cx400	2.60	0.7	3.15	2.84	78.00	10840	20250	4x0.8	2.84	73.0	8040	17450

4 Core 1.1 Kv Aluminium/Copper Pvc Insulated Unarmoured Power Cables

No. of cores & cross sectional area	Thichness of Insulation (Nom.)	Min. Thichness of PVC Inner sheath	UNARMOURED			
			YY			
			Nom. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx New Wt. of Cable With Aluminium Conductor	Approx New Wt. of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km
4Cx4	1.00	0.3	1.80	15.8	225	300
4Cx6	1.00	0.3	1.80	16.0	420	580
4Cx10	1.00	0.3	1.80	19.0	520	770
4Cx16	1.00	0.3	2.00	21.5	550	930
4Cx25	1.20	0.3	2.00	23.0	760	1360
4Cx35	1.20	0.3	2.00	25.0	920	1760
4Cx50	1.40	0.4	2.20	29.5	1210	2350
4Cx70	1.40	0.4	2.20	34.0	1540	3190
4Cx95	1.60	0.4	2.40	37.5	2010	4310
4Cx120	1.60	0.5	2.40	41.5	2400	5290
4Cx150	1.80	0.5	2.60	45.5	2910	6470
4Cx185	2.00	0.6	2.80	50.0	3590	8060
4Cx240	2.20	0.6	3.00	57.0	4540	10420
4Cx300	2.40	0.7	3.40	63.2	5690	13070
4Cx400	2.60	0.7	3.60	70.0	7060	16480

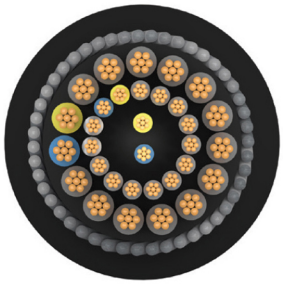




0.6/1 KV Four Core, CU/PVC/PVC/SWA/PVC

Nominal cross section area	Norminal Thickness of Insulation	Thickness of bedding	Nominal Armour Wire	Thichness of cuter sheath	Approx. overall diameter	Approx. Cable weight
Sqmm	mm	mm	Kg/Km	Kg/Km	mm	mm
1.5	0.8	0.8	0.9	1.4	13.5	12.1
2.5	0.8	0.8	0.9	1.4	15.0	7.41
4	1.0	0.8	1.25	1.5	17.8	4.61
6	1.0	0.8	1.25	1.5	19.2	3.08
10	1.0	0.8	1.25	1.6	22.8	1.83
16	1.0	1.0	1.6	1.7	26.3	1.15
25	1.2	1.0	1.6	1.8	27.8	0.727
35	1.2	1.0	1.6	1.9	30.3	0.524
50	1.4	1.2	2.0	2.0	35.4	0.387
70	1.4	1.2	2.0	2.1	39.2	0.268
95	1.6	1.2	2.0	2.2	44.3	0.193
120	1.6	1.4	2.5	2.4	49.3	0.153
150	1.8	1.4	2.5	2.5	53.6	0.124
185	2.0	1.6	2.5	2.6	59.0	0.0991
240	2.2	1.6	2.5	2.8	65.7	0.0754
300	2.4	1.6	2.5	3.0	68.8	16330
400	2.6	1.8	3.15	3.3	81.3	21205

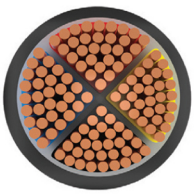




A SUPERIOR PRODUCT

LT-XLPE cables have a higher conductor temperature rating i.e. 90°C as against 70° C of PVC and hence highercurrent rating.
LT-XLPE cables have longer life as compared to conventional PVC cables.
Max. temperature limit under short circuit conditions for LT-XLPE cable is 250°C as against 160°C for PVC cables.
Hence, LT-XLPE cables have higher short circuit rating.
LT-XLPE cables have higher emergency overload capacity than PVC cables (up to 60%).
The moisture resistance of LT-XLPE cables is nearly 100 times than that of PVC cables.
Insulation resistance of LT-XLPE cables is very high compared to PVC (as high as 1000 times).
LT-XLPE cables have high corrosion resistance in polluted atmosphere as compared to PVC cables.
LT-XLPE cables have low installation cost because of light weight, dimensions and are far more flexible.
LT-XLPE cables have better properties of resistance to chemical and corrosive gases.
LT-XLPE cables have better properties to withstand vibrations and hot impacts.
Jointing of LT-XLPE cables is easier and quicker.
LT-XLPE cables are ideal for transmission and distribution of power.

Rating Factors for Cables	
The current rating of cables ginven in the tables are based on the following assumptions:	
1. Maximum conductor temperature for continuous operation	90° C (XLPE) / 70 C (PVC)
2. Ambient air temperature	40° C
3. Ambient ground temperature	30° C
4. Thermal resistivity of soil	150° C cm/watt
5. Depth of laying : a) 1.1 KV cables	75 cm





RATING FACTORS FOR VARIATION IN AMBIENT AIR TEMPERATURE			
Air Temperature (°C)	40	45	50
Rating Factor (XLPE)	1.00	0.94	0.88
Rating Factor (PVC)	1.00	0.90	0.81

Current Ratings For 1.1 Kv Copper Conductor Xlpe Insulated Control Cables (In Amp)

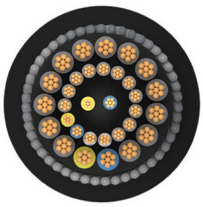
No. of Cores	1.5 Sqmm		2.5 Sqmm	
	In Ground	In Air	In Ground	In Air
2	33	29	39	32
3	25	22	34	30
4	25	22	34	30
5	24	21	31	28
6	22	19	29	26
7	21	18	27	25
10	18	16	24	21
12	17	15	22	20
14	16	14	21	19
16	16	14	20	18
19	15	13	19	17
24	13	12	17	16
27	13	11	16	16
30	12	11	16	14
37	11	10	15	13
44	11	9	14	12
52	10	9	13	12
61	9	8	12	11

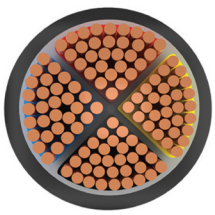
Current Ratings Of 1.1 Kv Xlpe Insulated Aluminium Conductor Cables (In Amp)

Nominal Area of Conductor	Single Core		Twin Core		Multi Core	
Sqmm	In Ground	In Air	In Ground	In Air	In Ground	In Air
6	44	39	50	44	43	50
10	59	53	69	59	57	67
16	76	73	88	74	73	70
25	96	98	112	98	94	96
35	114	121	138	124	113	117
50	135	150	169	156	133	142
70	166	187	200	188	164	179
95	198	230	238	231	196	221
120	225	268	262	262	223	257
150	253	309	300	300	249	292
185	286	360	344	344	282	337
240	332	433	400	406	326	399
300	376	501	444	456	367	455
400	431	596	481	525	418	530
500	490	693	523	678	470	612
630	557	814	592	786	529	707
800	600	890	–	–	–	–
1000	650	1050	–	–	–	–

Current Ratings Of 1.1 Kv Xlpe Insulated Copper Conducter Cables (In Amp)

Nominal Area Of Conductor	Single Core		Twin Core		Multi Core	
Sqmm	In Ground	In Air	In Ground	In Air	In Ground	In Air
6	59	53	63	56	54	47
10	78	72	88	75	72	62
16	102	98	113	98	92	79
25	132	132	144	131	119	108
35	156	156	175	150	144	132
50	186	198	206	194	174	162
70	228	246	256	244	210	198
95	264	294	300	288	252	240
120	300	336	344	331	288	276
150	336	384	388	381	324	318
185	366	444	438	438	360	366
240	414	510	506	512	414	426
300	450	570	562	581	462	480
400	480	660	612	662	510	546
500	570	708	–	–	–	–
630	594	825	–	–	–	–
800	660	945	–	–	–	–
1000	723	1063	–	–	–	–







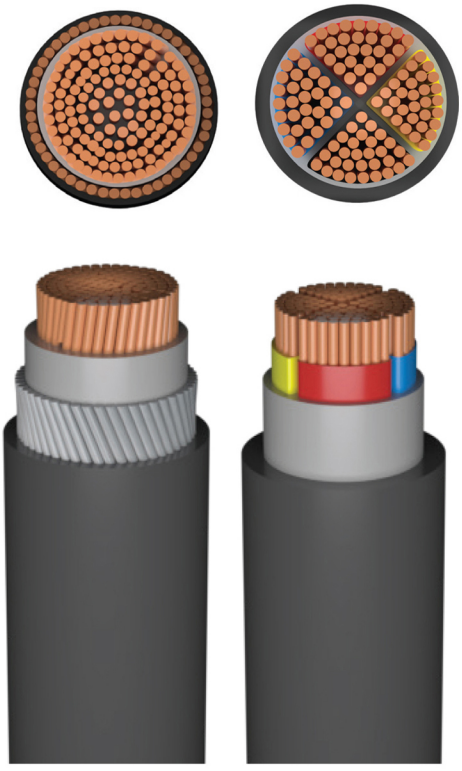


Capacitance Of 1.1 In Grade Xlpe Insulated Cables

Nominal Cross Sectional Area Of Conductor	Single Core Cable		Twin Core Cable	Multicore Cable
	Unarmoured	Armoured		
Sqmm	uF/Km	uF/Km	uF/Km	uF/Km
1.5	0.19	–	0.15	0.051
2.5	0.24	–	0.18	0.058
4	0.29	–	0.22	0.065
6	0.34	–	0.25	0.071
10	0.43	0.32	0.31	0.081
16	0.51	0.38	0.36	0.088
25	0.53	0.38	0.41	0.089
35	0.57	0.44	0.47	0.096
50	0.58	0.46	0.50	0.098
70	0.63	0.51	0.53	0.10
95	0.73	0.59	0.61	0.11
120	0.74	0.61	0.63	0.11
150	0.76	0.61	0.64	0.11
185	0.78	0.59	0.65	0.11
240	0.79	0.64	0.66	0.11
300	0.8	0.69	0.67	0.12
400	0.83	0.7	0.67	0.12
500	0.83	0.71	0.69	0.12
630	0.87	0.75	0.73	0.11
800	0.92	0.78	–	–
1000	0.94	0.81	–	–

Reactance Of 1.1 Kv Grade Xlpe Insulated Cables At 50 Hz

Nominal Cross Sectional Area of Conductor	Single Core Cable		Twin & Multicore Cable
	Unarmoured	Armoured	
Sqmm	Ohm/Km	Ohm/Km	Ohm/Km
1.5	0.1550	–	0.1070
2.5	0.1420	–	0.0985
4	0.1320	–	0.0927
6	0.1230	–	0.0881
10	0.1140	0.1340	0.0837
16	0.1080	0.1250	0.0808
25	0.1030	0.1200	0.0805
35	0.0986	0.1400	0.0783
50	0.0937	0.1080	0.0750
70	0.0900	0.1020	0.0740
95	0.0865	0.1000	0.0724
120	0.0841	0.0968	0.0712
150	0.0839	0.0941	0.0716
185	0.0836	0.0932	0.0718
240	0.0813	0.0900	0.0710
300	0.0795	0.0881	0.0705
400	0.0787	0.0873	0.0704
500	0.0779	0.0859	0.0702
630	0.0785	0.0843	0.0698
800	0.0755	0.0826	–
1000	0.0752	0.0825	–



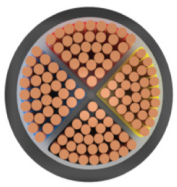
Short Circuit Rating For Xlpe Insulated Cables (For Duration Of One Second)

Nominal Cross Sectional Area of Conductor	Aluminium Conductor	Copper Conductor
Sqmm	K Amps	K Amps
1.5	0.141	0.215
2.5	0.235	0.358
4	0.376	0.572
6	0.564	0.858
10	0.94	1.430
16	1.504	2.288
25	2.350	3.575
35	3.29	5.01
50	4.70	7.15
70	6.58	10.01
95	8.93	13.59

Nominal Cross Sectional Area of Conductor	Aluminium Conductor	Copper Conductor
Sqmm	K Amps	K Amps
120	11.28	17.16
150	14.10	21.45
185	17.39	26.46
240	22.56	34.32
300	28.20	42.90
400	37.60	57.20
500	47.00	71.50
630	59.22	90.09
800	75.20	114.40
1000	94.00	143.00

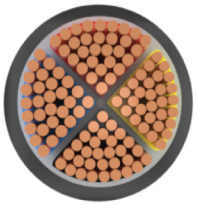
Maximum A.c/D.c Resistance Of Conductor For Xlpe Cables In Ohm/Km

Nominal Cross Sectional Area of Conductor	Minimum No. of Wires				Max. D.C Resitance At 20 Deg. C		Max. A.C Resitance At 70 Deg. C	
	Circular Conductor (Non Compacted)		Compacted Circular/ Shaped Conductor		Plain Copper Conductor	Aluminium Conductor	Plain Copper Conductor	Aluminium Conductor
Sqmm	Copper	Aluminium	Copper	Aluminium	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km
1.5	3	3	–	–	12.1	18.1	15.49	23.17
2.5	3	3	–	–	7.41	12.1	9.48	15.49
4	7	3	–	–	4.61	7.41	5.90	9.48
6	7	3	–	–	3.08	4.61	3.94	5.90
10	7	7	6	–	1.83	3.08	2.34	3.94
16	7	7	6	6	1.15	1.91	1.47	2.44
25	7	7	6	6	0.727	1.20	0.931	1.54
35	7	7	6	6	0.524	0.868	0.671	1.111
50	19	19	6	6	0.387	0.641	0.495	0.820
70	19	19	12	12	0.268	0.443	0.343	0.567
95	19	19	15	15	0.193	0.320	0.247	0.410
120	37	37	18	15	0.153	0.253	0.196	0.324
150	37	37	18	15	0.124	0.206	0.159	0.264
185	37	37	30	30	0.0991	0.1640	0.1268	0.2099
240	61	37	34	30	0.0754	0.1250	0.0965	0.1600
300	61	61	34	30	0.0601	0.1000	0.0769	0.1280
400	61	61	53	53	0.0470	0.0778	0.0602	0.0996
500	61	61	53	53	0.0366	0.0605	0.0468	0.0774
630	91	91	53	53	0.0283	0.0469	0.0362	0.0600
800	91	91	53	53	0.0221	0.0367	0.0283	0.0470
1000	91	91	53	53	0.0176	0.0291	0.0225	0.0372





Standard Current Rating Of 1.1 Kv Grade Xlpe Cables





Standard conditions :

Maximum continous operating conductor temperature = 90°C

Standard ground temperature = 30°C

Ambient air temperature = 40°C

Thermal Resistivity of soil = 150°C cm/watt

Depth of laying (for cables laid direct in ground) ≠ 75 cms

Method of Installation:

Three core cables install independently.

Single Core Cables: Three cables in a trefoil touching each other

Rating Factors For Variation In Ambient Air Temperature:

Air Temperature - °C		20	25	30	35	40	45	50	55	60
Rating factors	Conductor Temp. 90 °C	1.18	1.14	1.10	1.05	1.00	0.95	0.89	0.84	0.78

Rating Factors For Variation In Ground Temperature:

Air Temperature - °C		15	20	25	30	35	40	45	50
Rating factors	Conductor Temp. 90 °C	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82

Rating Factors For Depth Of Laying For Cables Laid Direct In The Ground:

Depth of laying (cm)	75	90	105	120	150	180 or more
For 1.1 kV	1.00	0.98	0.96	0.94	0.92	0.90

Rating Factors For Variation In Thermal Resistivity Of Soil:

Rating Factors for value of Thermal Resistivity of Soil in oC cm/Watt					
100	120	150	200	250	300
1.20	1.11	1.00	0.89	0.80	0.73

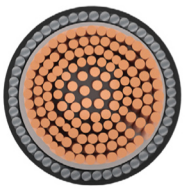
1. Core 1.1 Kv Aluminium/Copper Xlpe Armoured Power Cables

No. of Cores & cross section area	Thickness of Insulation(Nom.)	Nominal Dimensions of Armour Wire	ARMOURED								
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)			
			Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx Net Wt.of Cable With Aluminium Conductor	Approx Net Wt.of Cable With Copper Conductor	Niminal Dimensions or Armour Strip	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx Net Wt.of Cable With Aluminium Conductor	Approx Net Wt.of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
1CX25	1.2	1.4	1.4	1.24	14	250	–	–	–	–	–
1CX35	1.2	1.4	1.4	1.24	15	290	–	–	–	–	–
1CX50	1.3	1.4	1.4	1.24	17	350	–	–	–	–	–
1CX70	1.4	1.4	1.4	1.24	19	440	–	–	–	–	–
1CX95	1.4	1.6	1.6	1.40	22	580	4x0.8	1.4	21	540	1080
1CX120	1.5	1.6	1.6	1.40	24	680	4x0.8	1.4	23	640	1320
1CX150	1.7	1.6	1.6	1.40	25	790	4x0.8	1.4	24	740	1580
1CX185	1.9	1.6	1.6	1.40	28	950	4x0.8	1.4	26	890	1940
1CX240	2.0	1.6	1.6	1.40	30	1150	4x0.8	1.4	30	1090	2470
1CX300	2.1	1.6	1.6	1.56	33	1380	4x0.8	1.56	32	1320	3060
1CX400	2.4	2.0	2.0	1.56	38	1800	4x0.8	1.56	36	1650	3870
1CX500	2.6	2.0	2.0	1.56	41	2160	4x0.8	1.56	39	200	4850
1CX630	2.8	2.0	2.0	1.72	46	2690	4x0.8	1.72	44	2510	6200
1CX800	3.1	2.0	2.0	1.88	51	3350	4x0.8	1.72	48	3110	7830
1CX1000	3.3	2.5	2.4	56	4250	10170	4x0.8	1.88	54	3820	9740

Note: Conductors are compacted and as per class 2 of IS 8130

1 Core 1.1 Kv Aluminium/Copper Xlpe Unarmoured Power Cables

No. of Cores & cross section area	Thickness of Insulation (Nom.)	Nominal Dimensions of Armour Wire	UNARMOURED				
			YY				
			Thickness of Insulation (Nom.)	Nom. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx Net Wt. of Cable With Aluminium Conductor	Approx Net Wt. of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km
1CX25	1.2	1.4	0.9	1.8	12	180	330
1CX35	1.2	1.4	0.9	1.8	13	210	420
1CX50	1.3	1.4	1.0	1.8	15	270	550
1CX70	1.4	1.4	1.1	1.8	16	350	760
1CX95	1.4	1.6	1.1	1.8	18	440	1010
1CX120	1.5	1.6	1.2	1.8	20	530	1250
1CX150	1.5	1.6	1.4	2.0	22	650	1540
1CX185	1.9	1.6	1.6	2.0	24	790	1900
1CX240	2.0	1.6	1.7	2.0	27	980	2440
1CX300	2.1	1.6	1.8	2.0	30	1180	3020
1CX400	2.4	2.0	2.0	2.2	33	1510	3850
1CX500	2.6	2.0	2.2	2.2	36	1870	4870
1CX630	2.8	2.0	2.4	2.2	40	2340	6230
1CX800	3.1	2.0	2.6	2.4	47	2950	7940
1CX1000	3.3	2.5	2.8	2.6	51	3660	9910





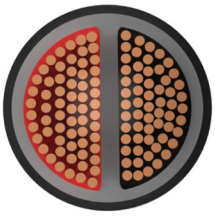
2 Core 1.1 Kv Aluminium/Copper Xlpe Insulated Armoured Power Cables

No. of Core & cross section area			ARMOURED									
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)				
	Thickness of Insulation (Nom.)	Min. Thickness of PVC winner sheath	Nominal Dimention of Armour Wire	Min. Thickness of PVC Outer Sheath	Overal Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor	Nominal Dimention of Armour Strip	Min. Thickness of PVC Outer Sheath	Overal Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
2C X 4	0.7	0.3	1.4	1.24	15.6	425	523	–	–	–	–	–
2C X 6	0.7	0.3	1.4	1.24	16.7	490	610	–	–	–	–	–
2C X 10	0.7	0.3	1.4	1.24	18.2	563	745	–	–	–	–	–
2C X 16	0.7	0.3	1.4	1.4	17.3	575	770	–	–	–	–	–
2CX25	0.9	0.30	1.6	1.40	21.3	760	1040	4x0.8	1.4	19.7	570	860
2CX35	0.9	0.30	1.6	1.40	22.1	880	1280	4x0.8	1.4	20.5	670	1070
2CX50	1.0	0.30	1.6	1.40	24.2	1040	1580	4x0.8	1.4	22.8	810	1350
2CX70	1.1	0.30	1.6	1.56	27.5	1280	2070	4x0.8	1.56	25.5	1020	1800
2CX95	1.1	0.40	2.0	1.56	30.9	1710	2790	4x0.8	1.56	28.4	1250	2340
2CX120	1.2	0.40	2.0	1.56	33	1990	3360	4x0.8	1.56	30.2	1490	2860
2CX150	1.4	0.40	2.0	1.72	36.5	2290	3990	4x0.8	1.72	33.9	1740	3430
2CX185	1.6	0.50	2.0	1.88	40	2730	4840	4x0.8	1.72	37	2090	4200
2CX240	1.7	0.50	2.5	2.04	44.0	3580	6360	4x0.8	1.88	40.2	2560	5340
2CX300	1.8	0.60	2.5	2.2	50.1	4190	7680	4x0.8	2.04	45.9	3050	6540
2CX400	2.0	0.60	2.5	2.36	54.2	5040	9500	4x0.8	2.36	50.2	3810	8270

Note: Conductors are compacted and as per class 2 of IS 8130

2 Core 1.1 Kv Aluminium/Copper Xlpe Insulated Unarmoured Power Cables

No. of Core & cross section area	UNARMOURED YY					
	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	Nom. Thickness of PVC Outer sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km
2C X 4	0.7	0.3	1.8	13	152	173
2C X 6	0.7	0.3	1.8	14	185	227
2C X 10	0.7	0.3	1.8	16.3	228	300
2C X 16	0.7	0.3	1.8	14.2	230	420
2CX25	0.90	0.30	2.0	19.3	400	700
2CX35	0.90	0.30	2.0	20.1	480	900
2CX50	1.00	0.30	2.0	22.4	590	1160
2CX70	1.10	0.30	2.0	24.7	750	1580
2CX95	1.10	0.40	2.2	28.2	980	2120
2CX120	1.20	0.40	2.2	30.1	1170	2620
2CX150	1.40	0.40	2.2	33.3	1390	3170
2CX185	1.60	0.50	2.4	37	1720	3950
2CX240	1.70	0.50	2.6	40.5	2160	5090
2CX300	1.80	0.60	2.8	45.8	2630	6320
2CX400	2.00	0.60	3.0	49.1	3300	8010



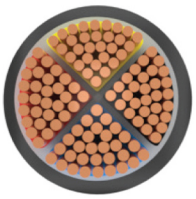


3 Core 1.1 Kv Aluminium/Copper Xlpe Insulated Armoured Power Cables

No. of Core & cross section area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	ARMOURED									
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)				
			Nominal Dimention of Armour Wire	Min. Thickness of PVC Outer Sheath	Overal Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor	Nominal Dimention of Armour strip	Min. Thickness of PVC Outer Sheath	Overal Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
3C X 4	0.7	0.3	1.4	1.24	16.2	512	583	–	–	–	–	–
3C X 6	0.7	0.3	1.4	1.24	17.2	585	678	–	–	–	–	–
3C X 10	0.7	0.3	1.4	1.24	19.1	678	867	–	–	–	–	–
3 X 16	0.7	0.3	–	–	–	535	828	4X 0.8	1.24	18.7	–	–
3CX25	0.90	0.30	1.6	1.40	21.8	920	1350	4x0.8	1.40	20.2	720	1150
3CX35	0.90	0.30	1.6	1.40	23.7	1090	1690	4x0.8	1.40	22.8	840	1440
3CX50	1.00	0.30	1.6	1.56	26.5	1320	2140	4x0.8	1.40	24.7	1030	1840
3CX70	1.10	0.40	2.0	1.56	31.2	1830	3000	4x0.8	1.56	28.8	1350	2530
3CX95	1.10	0.40	2.0	1.56	33.6	2180	3800	4x0.8	1.56	31.1	1650	3270
3CX120	1.20	0.40	2.0	1.72	38.5	2590	4640	4x0.8	1.56	35.8	1950	4010
3CX150	1.40	0.50	2.0	1.88	42.1	3050	5590	4x0.8	1.72	39.1	2360	4900
3CX185	1.60	0.50	2.5	2.04	47.0	3950	7120	4x0.8	1.88	43.2	2850	6020
3CX240	1.70	0.60	2.5	2.20	50.1	4770	8950	4x0.8	2.04	46.2	3520	7690
3CX300	1.80	0.60	2.5	2.36	55.2	5640	10880	4x0.8	2.20	51.8	4240	9480
3CX400	2.00	0.70	3.2	2.68	63.4	7480	14170	4x0.8	2.50	58.5	5270	11960

3 Core 1.1 Kv Aluminium/Copper Xlpe Insulated Unarmoured Power Cables

No. of Core & cross section area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	UNARMOURED			
			YY			
			Nom. Thickness of PVC Outer sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km
3C x4	0.7	0.3	1.8	13	162	233
3C X6	0.7	0.3	1.8	14	188	304
3C X 10	0.7	0.3	1.8	16.3	230	413
3 X 16	0.7	0.3	1.8	14.2	312	428
3CX25	0.90	0.30	2.0	20.2	520	970
3CX35	0.90	0.30	2.0	22.5	630	1270
3CX50	1.00	0.30	2.0	25.1	790	1640
3CX70	1.10	0.40	2.2	29.3	1070	2310
3CX95	1.10	0.40	2.2	31.6	1340	3050
3CX120	1.20	0.40	2.2	36.1	1620	3790
3CX150	1.40	0.50	2.4	39.7	1990	4670
3CX185	1.60	0.50	2.6	43.8	2450	5800
3CX240	1.70	0.60	2.8	47.1	3100	7510
3CX300	1.80	0.60	3.0	52.4	3790	9320
3CX400	2.00	0.70	3.2	59.1	4770	11830



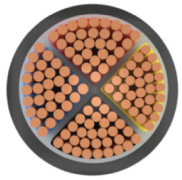


3½ Core 1.1 Kv Aluminium/Copper Xlpe Insulated Armoured Power Cables

No. of Core & cross section area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	ARMOURED										
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)					
			Nominal Dimention of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor	Nominal Dimention of Armour Strip	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. Of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Kg/Km
3.5CX25	0.9/0.7	0.30	1.6	1.40	23.9	1039	1560	4x0.8	1.40	22.3	814	1330
3.5CX35	0.9/0.7	0.30	1.6	1.40	25.6	1203	1890	4x0.8	1.40	24	962	1650
3.5CX50	1.0/0.9	0.30	1.6	1.56	29	1474	2430	4x0.8	1.40	27	1153	2110
3.5CX70	1.1/0.9	0.40	2.0	1.56	34.1	2028	3410	4x0.8	1.56	31.8	1501	2880
3.5CX95	1.1/1.0	0.40	2.0	1.56	37.8	2447	4350	4x0.8	1.56	35.2	1869	3770
3.5CX120	1.2/1.1	0.40	2.0	1.72	40.1	2954	5400	4x0.8	1.72	37.9	2297	4740
3.5CX150	1.4/1.1	0.50	2.0	1.88	45.2	3427	6360	4x0.8	1.72	42.5	2656	5590
3.5CX185	1.6/1.1	0.50	2.5	2.04	49.9	4470	8180	4x0.8	1.88	45.9	3254	6970
3.5CX240	1.7/1.2	0.60	2.5	2.20	55.5	5386	10240	4x0.8	2.04	51.8	4006	8860
3.5CX300	1.8/1.4	0.60	2.5	2.36	59.2	6344	12430	4x0.8	2.20	55.7	4821	10910
3.5CX400	2.0/1.6	0.70	3.15	2.68	69.1	8446	16190	4x0.8	2.52	64.0	6042	13790

3½ Core 1.1 Kv Aluminium/Copper Xlpe Insulated Unarmoured Power Cables

No. of Core & cross section area	Thickness of Insulation (Nom.) main/neutral	Min. Thickness of PVC inner sheath	UNARMOURED			
			YY			
			Nominal Dimention of Armour Wire	Overal Diameter (Approx.)	Approx. Net Wt. of Cable With Aluminium Conductor	Approx. Net Wt. of Cable With Copper Conductor
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km
3.5CX25	0.9/0.7	0.30	2.0	22.5	595	1150
3.5CX35	0.9/0.7	0.30	2.0	24	710	1440
3.5CX50	1.0/0.9	0.30	2.0	27.4	900	1910
3.5CX70	1.1/0.9	0.4	2.2	31.8	1207	2660
3.5CX95	1.1/1.0	0.4	2.2	35.5	1534	3540
3.5CX120	1.2/1.1	0.4	2.2	37.9	1891	4470
3.5CX150	1.4/1.1	0.5	2.4	42.9	2270	5360
3.5CX185	1.6/1.1	0.5	2.6	46.4	2820	6740
3.5CX240	1.7/1.2	0.6	2.8	52.6	3560	8690
3.5CX300	1.8/1.4	0.6	3.0	56.5	4340	10770
3.5CX400	2.0/1.6	0.7	3.4	65.2	5560	13740





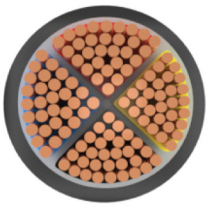
4 Core 1.1 Kv Aluminium/Copper Xlpe Insulated Armoured Power Cables

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of XLPE inner sheath	ARMOURED									
			YWY(WIRE ARMOURED)					YFY(STRIP ARMOURED)				
			Nominal Dimensions of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor	Nominal Dimensions of Armour Strip	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sq.mm.	mm	mm	mm	mm	mm	Kg/Km.	Kg/Km.	mm	mm	mm	Kg/Km.	Kg/Km.
4C X 4	0.7	0.3	1.4	1.24	17.6	562	662	–	–	–	–	–
4C X 6	0.7	0.3	1.4	1.24	19.2	627	776	–	–	–	–	–
4C X 10	0.7	0.3	1.4	1.24	20.7	767	1012	–	–	–	–	–
4C X 16	0.7	0.3	1.6	1.40	22.3	938	1346	4x0.8	1.4	20.1	716	1055
4CX25	0.90	0.30	1.6	1.40	23.9	1110	1680	4x0.8	1.4	23.1	880	1450
4CX35	0.90	0.30	1.6	1.40	26.0	1320	2120	4x0.8	1.4	24.5	1050	1850
4CX50	1.00	0.30	1.6	1.56	29.6	1610	2690	4x0.8	1.56	28	1310	2390
4CX70	1.10	0.40	2.0	1.56	34.0	2260	3820	4x0.8	1.56	31.6	1680	3240
4CX95	1.10	0.40	2.0	1.72	38.0	2710	4880	4x0.8	1.56	35.1	2050	4220
4CX120	1.20	0.50	2.0	1.88	42.0	3250	5990	4x0.8	1.72	39	2510	5250
4CX150	1.40	0.50	2.5	2.04	46.2	4190	7570	4x0.8	1.88	42.6	3000	6380
4CX185	1.60	0.50	2.5	2.20	51.5	4980	9210	4x0.8	2.04	47.8	3650	7880
4CX240	1.70	0.60	2.5	2.36	57.6	6000	11560	4x0.8	2.2	53.9	4530	10090
4CX300	1.80	0.70	3.15	2.52	64.5	7810	14790	4x0.8	2.36	59.4	5510	12500
4CX400	2.00	0.70	3.15	2.84	72.0	9400	18320	4x0.8	2.68	67.0	6820	15740

Note: Conductors are as per Class 2 of IS 8130

4 Core 1.1 Kv Aluminium/Copper Xlpe Insulated Unarmoured Power Cables

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of XLPE inner sheath	UNARMOURED			
			YY			
			Nom. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable with Aluminium Conductor	Approx. Net Wt. of Cable with Copper Conductor
Sq.mm.	mm	mm	mm	mm	Kg/Km.	Kg/Km.
4C X 4	0.7	0.3	1.8	16.0	182	282
4C X 6	0.7	0.3	1.8	17.7	217	366
4C X 10	0.7	0.3	1.8	18.5	260	512
4 X 16	0.7	0.3	1.8	17.6	355	755
4CX25	0.90	0.30	2.0	22.5	650	1250
4CX35	0.90	0.30	2.0	24.6	790	1640
4CX50	1.00	0.30	2.0	27.9	990	2130
4CX70	1.10	0.40	2.2	32.1	1350	3010
4CX95	1.10	0.40	2.2	35.5	1700	4000
4CX120	1.20	0.50	2.4	39.6	2140	5030
4CX150	1.40	0.50	2.6	42.9	2600	6160
4CX185	1.60	0.50	2.8	48.2	3200	7670
4CX240	1.70	0.60	3.0	54.7	4050	9920
4CX300	1.80	0.70	3.2	60.6	4990	12370
4CX400	2.00	0.70	3.6	68.2	6320	15740



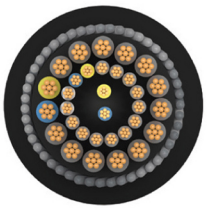


Copper Conductor Armoured Xlpe Insulated Control Cables Of 1.5 Sq.mm

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	ARMOURED								
			2XWY(WIRE ARMOURED)					2XFY(STRIP ARMOURED)			
			Nominal Dimensions of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable	Nominal Dimensions of Armour Strip	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable	
Sq.mm.	mm	mm	mm	mm	mm	Kg/Km.	mm	mm	mm	Kg/Km.	
2Cx1.5	0.70	0.3	1.40	1.24	14	425	–	–	–	–	
3Cx1.5	0.70	0.3	1.40	1.24	14.5	460	–	–	–	–	
4Cx1.5	0.70	0.3	1.40	1.24	15	520	–	–	–	–	
5Cx1.5	0.70	0.3	1.40	1.24	16	530	–	–	–	–	
6Cx1.5	0.70	0.3	1.40	1.24	17	590	–	–	–	–	
7Cx1.5	0.70	0.3	1.40	1.24	17	610	–	–	–	–	
10Cx1.5	0.70	0.3	1.40	1.24	21	820	–	–	–	–	
12Cx1.5	0.70	0.3	1.40	1.40	21.5	930	4x0.8	1.24	19.5	740	
14Cx1.5	0.70	0.3	1.60	1.40	22.5	1020	4x0.8	1.40	21	820	
16Cx1.5	0.70	0.3	1.60	1.40	23.5	1100	4x0.8	1.40	22	890	
19Cx1.5	0.70	0.3	1.60	1.40	25	1230	4x0.8	1.40	23	1020	
24Cx1.5	0.70	0.3	1.60	1.40	28	1480	4x0.8	1.40	26.5	1220	
27Cx1.5	0.70	0.3	1.60	1.40	28.5	1570	4x0.8	1.40	27	1320	
30Cx1.5	0.70	0.3	1.60	1.40	29.5	1660	4x0.8	1.40	28	1400	
37Cx1.5	0.70	0.3	1.60	1.40	31.5	1910	4x0.8	1.40	30	1630	

Copper Conductor Unarmoured Xlpe Insulated Control Cables Of 1.5 Sq.mm

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	UNARMOURED		
			2XY		
			Nom. Thickness of PVC Outer Wire	Overall Diameter (Approx.)	Approx. Net Wt. of Cable
Sq.mm.	mm	mm	mm	mm	Kg/Km.
2Cx1.5	0.70	0.3	1.80	12.5	185
3Cx1.5	0.70	0.3	1.80	13.0	190
4Cx1.5	0.70	0.3	1.80	13.5	225
5Cx1.5	0.70	0.3	1.80	14.0	260
6Cx1.5	0.70	0.3	1.80	15.0	295
7Cx1.5	0.70	0.3	1.80	15.0	315
10Cx1.5	0.70	0.3	1.80	18.5	425
12Cx1.5	0.70	0.3	1.80	19.0	480
14Cx1.5	0.70	0.3	1.80	20.0	535
16Cx1.5	0.70	0.3	1.80	21.0	595
19Cx1.5	0.70	0.3	2.00	22.5	720
24Cx1.5	0.70	0.3	2.00	26.0	880
27Cx1.5	0.70	0.3	2.00	26.5	960
30Cx1.5	0.70	0.3	2.00	27.5	1040
37Cx1.5	0.70	0.3	2.00	29.0	1230



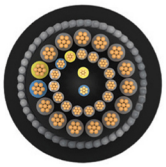


Copper Conductor Armoured Xlpe Insulated Control Cables Of 2.5 Sq.mm

No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	ARMOURED							
			2XWY(WIRE ARMOURED)				2XFY(STRIP ARMOURED)			
			Nominal Dimensions of Armour Wire	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable	Nominal Dimensions of Armour Strip	Min. Thickness of PVC Outer Sheath	Overall Diameter (Approx.)	Approx. Net Wt. of Cable
Sq.mm.	mm	mm	mm	mm	mm	Kg/Km.	mm	mm	mm	Kg/Km.
2Cx2.5	0.70	0.3	1.40	1.24	15.5	495	–	–	–	–
3Cx2.5	0.70	0.3	1.40	1.24	16	550	–	–	–	–
4Cx2.5	0.70	0.3	1.40	1.24	17	620	–	–	–	–
5Cx2.5	0.70	0.3	1.40	1.24	17.5	640	–	–	–	–
6Cx2.5	0.70	0.3	1.40	1.24	19	720	–	–	–	–
7Cx2.5	0.70	0.3	1.40	1.24	19	760	–	–	–	–
10Cx2.5	0.70	0.3	1.60	1.40	23.5	1110	4x0.8	1.40	21	900
12Cx2.5	0.70	0.3	1.60	1.40	24.5	1240	4x0.8	1.40	22	1000
14Cx2.5	0.70	0.3	1.60	1.40	25.5	1340	4x0.8	1.40	24	1100
16Cx2.5	0.70	0.3	1.60	1.40	26.5	1455	4x0.8	1.40	25	1200
19Cx2.5	0.70	0.3	1.60	1.40	27.5	1605	4x0.8	1.40	26	1320
24Cx2.5	0.70	0.3	1.60	1.40	30	1920	4x0.8	1.40	30	1600
27Cx2.5	0.70	0.3	1.60	1.40	31	2040	4x0.8	1.40	31	1660
30Cx2.5	0.70	0.3	1.60	1.40	32.5	2180	4x0.8	1.40	31	1850
37Cx2.5	0.70	0.30	1.60	1.56	37	2900	4x0.8	1.40	34	2240

Copper Conductor Unarmoured Xlpe Insulated Control Cables Of 2.5 Sq.mm

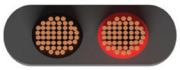
No. of Cores & cross sectional area	Thickness of Insulation (Nom.)	Min. Thickness of PVC inner sheath	UNARMOURED		
			2XY		
			Nom. Thickness of PVC Outer Wire	Overall Diameter (Approx.)	Approx. Net Wt. of Cable
Sqmm.	mm	mm	mm	mm	Kg/Km.
2Cx2.5	0.70	0.3	1.80	13.5	230
3Cx2.5	0.70	0.3	1.80	14.0	240
4Cx2.5	0.70	0.3	1.80	15.0	290
5Cx2.5	0.70	0.3	1.80	16.0	335
6Cx2.5	0.70	0.3	1.80	17.0	385
7Cx2.5	0.70	0.3	1.80	17.0	420
10Cx2.5	0.70	0.3	1.80	21.0	570
12Cx2.5	0.70	0.3	1.80	22.5	680
14Cx2.5	0.70	0.3	2.00	23.5	775
16Cx2.5	0.70	0.3	2.00	24.5	860
19Cx2.5	0.70	0.3	2.00	25.5	985
24Cx2.5	0.70	0.3	2.00	29.5	1215
27Cx2.5	0.70	0.3	2.00	30.0	1330
30Cx2.5	0.70	0.3	2.00	31.0	1450
37Cx2.5	0.70	0.30	2.00	33.5	1740





Pvc Insulated & Sheathed Aluminium/ Copper Twin Core Flat Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diemension	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
2cx0.50	1/0.80	0.60	0.90	6.0x3.8	41	47	3	4	100
2cx0.75	1/0.98	0.60	0.90	6.2x4.0	46	55	5	7	100
2cx1.0	1/1.12	0.60	0.90	6.5x4.2	49	61	8	11	100
2cx1.5	1/1.38	0.70	0.90	7.0x4.5	60	79	16	20	100
2cx2.5	1/1.78	0.80	1.00	8.4x5.2	83	114	21	27	100
2cx4	1/2.26	0.80	1.00	9.8x5.9	102	152	27	35	100
2cx6	1/2.76	0.80	1.10	12.0x6.8	129	203	35	45	100
2cx10	1/3.56	1.00	1.40	14.0x8.4	206	329	47	60	100
2cx16	7/1.70	1.00	1.40	17.0x10.0	278	474	59	78	100
2cx25	7/2.13	1.20	2.00	21.6x12.8	450	760	75	105	100
2cx35	7/2.52	1.20	2.00	23.9x14.0	544	976	99	125	100
2cx50	19/1.83	1.40	2.20	28.0x16.0	735	1355	125	155	100





Pvc Insulated & Sheathed Solid Aluminium/ Copper Single Core Cable As Per Is:694-2010

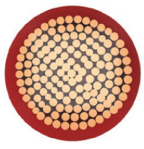
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
1cx1.0	1/1.12	0.60	0.8	4.3	25	31	9	12	100
1cx1.5	1/1.38	0.70	0.8	4.8	31	40	12	16	100
1cx2.5	1/1.78	0.80	0.8	5.4	39	55	17	22	100
1cx4	1/2.26	0.80	0.9	6.1	52	77	23	29	100
1cx6	1/2.76	0.80	0.9	6.5	62	99	29	37	100
1cx10	1/3.56	1.00	0.9	7.8	89	150	40	51	100





Pvc Insulated Un- Sheathed Solid Aluminium/ Copper Single Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
1cx0.50	1/0.80	0.60	N.A	2.2	6.8	9.9	3	4	100
1cx0.75	1/0.98	0.60	N.A	2.3	8.2	12.8	5	7	100
1cx1.0	1/1.12	0.60	N.A	2.5	9.4	15.5	9	12	100
1cx1.5	1/1.38	0.70	N.A	3.0	12.5	22	12	16	100
1cx2.5	1/1.78	0.80	N.A	3.6	18.8	34	17	22	100
1cx4	1/2.26	0.80	N.A	4.1	25	50	23	29	100
1cx6	1/2.76	0.80	N.A	4.6	33	70	29	37	100
1cx10	1/3.56	1.00	N.A	5.7	54	115	40	51	100





Pvc Insulated & Sheathed Stranded Aluminium/ Copper Single Core Cable As Per Is:694-2010

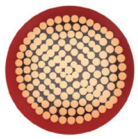
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
1cx1.5	3/0.80	0.70	0.8	5.1	37.5	47	16	16	100
1cx2.5	3/1.03	0.80	0.8	5.8	48.9	64.4	21	22	100
1cx4	7/0.85	0.80	0.9	6.4	55.1	79.8	27	29	100
1cx6	7/1.04	0.80	0.9	7.0	67.5	104.5	35	37	100
1cx10	7/1.35	1.00	0.9	8.2	95	156	48	51	100
1cx16	7/1.70	1.00	1	9.5	127	226	65	68	100
1cx25	7/2.13	1.20	1.1	11.4	184	339	84	86	100
1cx35	7/2.52	1.20	1.1	12.5	226	442	105	110	100
1cx50	19/1.83	1.40	1.2	14.7	312	621	125	145	100
1cx70	19/2.16	1.40	1.4	16.8	407	840	150	200	100
1cx95	19/2.52	1.60	1.5	19.2	532	1120	185	235	100
1cx120	37/2.03	1.60	1.5	20.8	628	1374	210	270	100





Pvc Insulated Un- Sheathed Stranded Aluminium/ Copper Single Core Cable As Per Is:694-2010

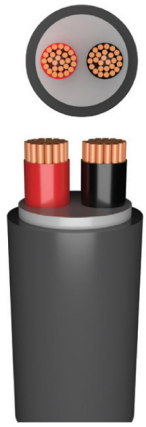
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
1cx1.5	3/0.80	0.70	N.A	3.3	17.8	27.1	16	16	100
1cx2.5	3/1.03	0.80	N.A	4.0	25.9	41.4	21	22	100
1cx4	7/0.85	0.80	N.A	4.4	27.1	51.8	27	29	100
1cx6	7/1.04	0.80	N.A	5.0	36	73	35	37	100
1cx10	7/1.35	1.00	N.A	6.2	57	118	48	51	100
1cx16	7/1.70	1.00	N.A	7.3	79	178	65	68	100
1cx25	7/2.13	1.20	N.A	9.0	120	275	84	86	100
1cx35	7/2.52	1.20	N.A	10.1	155	371	105	110	100
1cx50	19/1.83	1.40	N.A	12.3	219	528	125	145	100
1cx70	19/2.16	1.40	N.A	13.8	286	719	150	200	100
1cx95	19/2.52	1.60	N.A	16.0	384	972	185	235	100
1cx120	37/2.03	1.60	N.A	17.6	466	1208	210	270	100
1cx150	37/2.27	1.80	N.A	19.7	583	1511	240	310	100
1cx185	37/2.52	2.00	N.A	21.8	718	1862	280	360	100
1cx240	37/2.88	2.20	N.A	24.7	920	2405	325	425	100
1cx300	61/2.50	2.40	N.A	27.5	1140	2997	380	490	100
1cx400	61/2.89	2.60	N.A	31.2	1490	3964	460	590	100
1cx500	61/3.23	2.80	N.A	34.8	1840	4934	535	686	100
1cx630	91/2.96	3.00	N.A	38.7	2285	6183	630	808	100





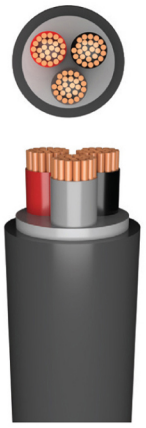
Pvc Insulated & Sheathed Solid Aluminium/ Copper Two Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
2cx1.0	1/1.12	0.60	0.90	7.0	63	76	9	11	100
2cx1.5	1/1.38	0.70	0.90	8.0	77	96	11	15	100
2cx2.5	1/1.78	0.80	1.00	9.4	105	136	16	20	100
2cx4	1/2.26	0.80	1.00	10.4	127	177	21	27	100
2cx6	1/2.76	0.80	1.10	11.6	160	234	27	35	100
2cx10	1/3.56	1.00	1.20	14.0	232	354	38	48	100



Pvc Insulated & Sheathed Solid Aluminium/ Copper Three Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
3cx1.0	1/1.12	0.60	0.90	7.4	71	89.5	8	10	100
3cx1.5	1/1.38	0.70	0.90	8.4	87	116	10	14	100
3cx2.5	1/1.78	0.80	1.00	9.9	122	168	15	19	100
3cx4	1/2.26	0.80	1.10	11.2	156	231	20	26	100
3cx6	1/2.76	0.80	1.10	12.3	189	300	26	33	100
3cx10	1/3.56	1.00	1.20	14.9	282	465	36	46	100

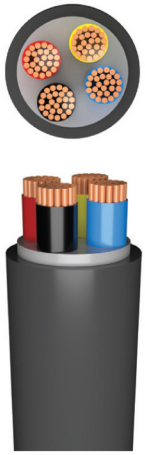


Pvc Insulated & Sheathed Solid Aluminium/ Copper Four Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
4cx1.0	1/1.12	0.60	0.90	8.0	83	108	8	10	100
4cx1.5	1/1.38	0.70	0.90	9.2	103	141	10	14	100
4cx2.5	1/1.78	0.80	1.00	10.9	145	206	15	19	100
4cx4	1/2.26	0.80	1.10	12.3	187	287	20	26	100
4cx6	1/2.76	0.80	1.20	13.7	237	385	26	33	100
4cx10	1/3.56	1.00	1.30	16.5	354	465	598	46	100

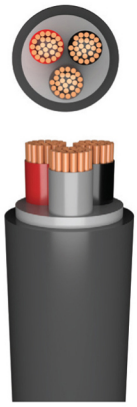
Pvc Insulated & Sheathed Solid / Stranded / Multi Wire Aluminium/ Copper Four Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
2cx1.5	3/0.80	0.70	0.90	8.6	92	111	15	15	100
2cx2.5	3/1.03	0.80	1.00	10.2	126	157	18	20	100
2cx4	7/0.85	0.80	1.00	11.0	136	185	25	27	100
2cx6	7/1.04	0.80	1.10	12.4	173	247	33	35	100
2cx10	7/1.35	1.00	1.20	15.0	248	370	45	48	100
2cx16	7/1.70	1.00	1.30	17.4	326	524	61	64	100
2cx25	7/2.13	1.20	1.40	21.0	460	770	79	81	100
2cx35	7/2.52	1.20	1.50	23.4	572	1004	99	105	100
2cx50	19/1.83	1.40	1.60	28.0	774	1395	118	137	100
2cx70	19/2.16	1.40	2.40	32.6	1139	2005	142	190	100
2cx95	19/2.52	1.60	2.70	37.6	15.02	2678	175	223	100
2cx120	37/2.03	1.60	2.90	41.2	1795	3279	199	256	100



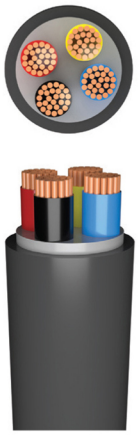
Pvc Insulated & Sheathed Stranded Aluminium/ Copper Three Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
3cx1.5	3/0.80	0.70	0.9	9.1	108	136	14	14	100
3cx2.5	3/1.03	0.80	1.0	10.8	149	196	18	19	100
3cx4	7/0.85	0.80	1.1	11.9	168	242	24	26	100
3cx6	7/1.04	0.80	1.1	13.2	205	316	31	33	100
3cx10	7/1.35	1.00	1.2	16.0	300	483	43	46	100
3cx16	7/1.70	1.00	1.3	18.5	400	697	58	61	100
3cx25	7/2.13	1.20	1.5	22.6	588	1053	75	77	100
3cx35	7/2.52	1.20	1.6	25.2	736	1384	94	99	100
3cx50	19/1.83	1.40	1.7	30.1	1003	1930	112	130	100
3cx70	19/2.16	1.40	2.5	35.0	1429	2728	135	180	100
3cx95	19/2.52	1.60	2.9	40.5	1916	3680	166	211	100
3cx120	37/2.03	1.60	3.1	44.4	2292	4518	189	243	100



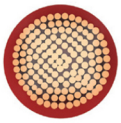
Pvc Insulated & Sheathed Stranded Aluminium/ Copper Four Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight		Current Rating		Strandard Packing Length
					AL.	Cop.	AL.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Kg/Km	Amps	Amps	mtrs
4cx1.5	3/0.80	0.70	0.9	10.0	129	166	14	14	100
4cx2.5	3/1.03	0.80	1.0	11.8	180	242	18	19	100
4cx4	7/0.85	0.80	1.1	13.0	200	299	24	26	100
4cx6	7/1.04	0.80	1.2	14.7	257	405	31	33	100
4cx10	7/1.35	1.00	1.3	17.8	377	621	43	46	100
4cx16	7/1.70	1.00	1.4	20.6	503	899	58	61	100
4cx25	7/2.13	1.20	1.6	25.1	620	1360	75	77	100
4cx35	7/2.52	1.20	1.7	28.0	928	1792	94	99	100
4cx50	19/1.83	1.40	1.8	33.5	1268	2504	112	130	100
4cx70	19/2.16	1.40	2.8	39.0	1831	3563	135	180	100
4cx95	19/2.52	1.60	3.1	45.0	2412	4764	166	211	100
4cx120	37/2.03	1.60	3.4	49.5	2917	5885	189	243	100



Pvc Insulated Un- Sheathed Flexible Copper Single Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Amps	mtrs
1cx0.5	16/0.20	0.6	N.A	2.3	10.8	4	100
1cx0.75	24/0.20	0.6	N.A	2.5	13.8	7	100
1cx1.0	32/0.20	0.6	N.A	2.7	16.8	11	100
1cx1.5	30/0.25	0.70	N.A	3.1	23.8	14	100
1cx2.5	50/0.25	0.80	N.A	3.8	37	19	100
1cx4	56/0.30	0.80	N.A	4.1	53.1	26	100
1cx6	85/0.30	0.80	N.A	4.7	74.7	34	100
1cx10	79/0.40	1.00	N.A	6.1	121.4	48	100
1cx16	126/0.40	1.00	N.A	7.3	181.5	64	100
1cx25	199/0.40	1.20	N.A	9.0	282.5	80	100
1cx35	278/0.40	1.20	N.A	10.2	381	104	100
1cx50	398/0.40	1.40	N.A	12.1	541.8	130	100
1cx70	356/0.50	1.40	N.A	13.8	735.8	148	100
1cx95	484/0.50	1.60	N.A	16.0	996.1	170	100
1cx120	611/0.50	1.60	N.A	17.6	1205.7	223	100
1cx150	764/0.50	1.80	N.A	19.6	1546.4	298	100
1cx185	942/0.50	2.00	N.A	21.8	1905.1	336	100
1cx240	1222/0.50	2.20	N.A	24.7	2459.3	400	100
1cx300	1528/0.50	2.40	N.A	27.0	3064.1	460	100





Pvc Insulated & Sheathed Flexible Copper Single Core Cable As Per Is:694-2010

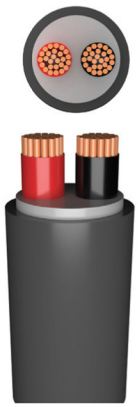
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Amps	mtrs
1cx0.5	16/0.20	0.6	0.9	4.3	27.8	4	100
1cx0.75	24/0.20	0.6	0.9	4.5	31.8	7	100
1cx1.0	32/0.20	0.6	0.9	4.7	35.8	11	100
1cx1.5	30/0.25	0.70	0.9	5.1	44.8	14	100
1cx2.5	50/0.25	0.80	1.0	6.0	65	19	100
1cx4	56/0.30	0.80	1.0	6.2	83.1	26	100
1cx6	85/0.30	0.80	1.1	7.1	111.7	34	100
1cx10	79/0.40	1.00	1.3	8.9	176.4	48	100
1cx16	126/0.40	1.00	1.4	10.3	250.5	64	100
1cx25	199/0.40	1.20	1.4	12.0	365.5	80	100
1cx35	278/0.40	1.20	1.6	13.6	487	104	100
1cx50	398/0.40	1.40	2.0	16.3	698.8	130	100
1cx70	356/0.50	1.40	2.2	18.4	930.8	148	100
1cx95	484/0.50	1.60	2.4	21.0	1239.1	170	100
1cx120	611/0.50	1.60	2.5	22.8	1482.7	223	100





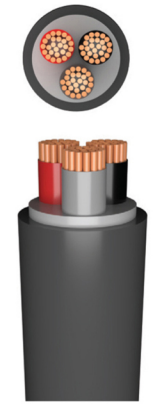
Pvc Insulated & Sheathed Flexible Copper Two Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Amps	mtrs
2cx0.5	16/0.20	0.6	0.9	6.6	63.6	4	100
2cx0.75	24/0.20	0.6	0.9	7.0	72.6	7	100
2cx1.0	32/0.20	0.6	0.9	7.4	81.6	10.5	100
2cx1.5	30/0.25	0.70	0.9	8.2	101.6	13.5	100
2cx2.5	50/0.25	0.80	1.0	9.8	146	18	100
2cx4	56/0.30	0.80	1.0	10.4	183.2	24.5	100
2cx6	85/0.30	0.80	1.1	11.8	244.4	32.5	100
2cx10	79/0.40	1.00	1.3	15.0	385.8	45.5	100
2cx16	126/0.40	1.00	1.4	17.6	544	61	100
2cx25	199/0.40	1.20	1.4	21.0	785	76	100
2cx35	278/0.40	1.20	1.6	23.8	1045	99	100
2cx50	398/0.40	1.40	2.0	28.4	1499.6	124	100
2cx70	356/0.50	1.40	2.2	32.2	1988	140	100
2cx95	484/0.50	1.60	2.4	37.0	2641.2	161	100
2cx120	611/0.50	1.60	2.5	40.4	3151.4	212	100



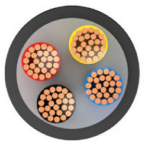
Pvc Insulated & Sheathed Flexible Copper Three Core Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Kg/Km	Amps	mtrs
3cx0.5	16/0.20	0.6	0.9	6.9	72.4	3.5	100
3cx0.75	24/0.20	0.6	0.9	7.4	84.4	6.5	100
3cx1.0	32/0.20	0.6	0.9	7.8	96.4	10	100
3cx1.5	30/0.25	0.70	0.9	8.6	123.4	13	100
3cx2.5	50/0.25	0.80	1.0	10.4	180	17	100
3cx4	56/0.30	0.80	1.0	11	233.3	23.5	100
3cx6	85/0.30	0.80	1.2	12.5	324.1	30.5	100
3cx10	79/0.40	1.00	1.4	16.1	513.2	43	100
3cx16	126/0.40	1.00	1.4	18.7	719.5	57.5	100
3cx25	199/0.40	1.20	1.5	22.6	1075.5	72	100
3cx35	278/0.40	1.20	1.6	25.4	1416	94	100
3cx50	398/0.40	1.40	2.0	30.3	2027.4	117	100
3cx70	356/0.50	1.40	2.2	34.4	2707.4	133	100
3cx95	484/0.50	1.60	2.4	39.5	1624.1	153	100
3cx120	611/0.50	1.60	2.5	43.2	4333.1	201	100
3cx150	764/0.50	1.80	2.6	48.1	5463.2	268	100
3cx185	942/0.50	2.00	2.8	52.8	6698.3	302	100
3cx240	1222/0.50	2.20	3.0	59.5	8563.9	360	100
3cx300	1528/0.50	2.40	3.2	64.9	10571.3	414	100



Pvc Insulated & Sheathed Flexible Copper Four Core Cable As Per Is:694-2010

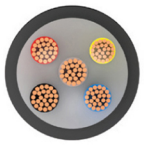
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
4cx0.5	16/0.20	0.6	0.9	7.5	85.2	3.5	100
4cx0.75	24/0.20	0.6	0.9	8.0	101.2	6.5	100
4cx1.0	32/0.20	0.6	0.9	8.5	116.2	10	100
4cx1.5	30/0.25	0.70	1	9.7	156.2	13	100
4cx2.5	50/0.25	0.80	1.0	11.3	221	17	100
4cx4	56/0.30	0.80	1.0	12.1	291.4	23.5	100
4cx6	85/0.30	0.80	1.2	13.9	405.8	30.5	100
4cx10	79/0.40	1.00	1.4	17.7	644.6	43	100
4cx16	126/0.40	1.00	1.4	20.6	913	57.5	100
4cx25	199/0.40	1.20	1.6	25.1	1390	72	100
4cx35	278/0.40	1.20	1.7	28.8	1835	94	100
4cx50	398/0.40	1.40	2.0	33.4	2597.2	117	100
4cx70	356/0.50	1.40	2.2	37.9	3479.2	133	100
4cx95	484/0.50	1.60	2.4	43.7	4659.4	153	100
4cx120	611/0.50	1.60	2.5	47.7	5589.8	201	100
4cx150	764/0.50	1.80	2.6	52.8	7069.6	268	100
4cx185	942/0.50	2.00	2.8	58.5	8974.4	302	100
4cx240	1222/0.50	2.20	3.0	65.9	11109.2	360	100
4cx300	1528/0.50	2.40	3.2	71.9	13735.4	414	100





Pvc Insulated & Sheathed Flexible Copper Five Core Cable As Per Is:694-2010

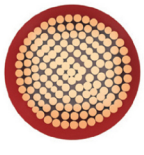
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length Cop.
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
5cx0.5	16/0.20	0.6	0.9	8.2	99	3.5	100
5cx0.75	24/0.20	0.6	0.9	8.6	117	6	100
5cx1.0	32/0.20	0.6	1.0	9.4	141	9.5	100
5cx1.5	30/0.25	0.70	1.0	10.5	184	12	100
5cx2.5	50/0.25	0.80	1.0	12.4	263	16	100
5cx4	56/0.30	0.80	1.1	13.4	357.5	22	100





Pvc Insulated, Un-Sheathed Flexible Copper Single Core (Domastic Wire) As Per Is:694-2010

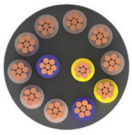
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
1cx0.75	10/0.3	0.6	N.A	2.5	13	7	100
1cx1.0	14/0.3	0.6	N.A	2.7	16.1	11	100
1cx1.5	22/0.3	0.7	N.A	3.2	23.5	14	100
1cx2.5	36/0.3	0.80	N.A	3.8	37.7	19	100
1cx4	56/0.3	0.80	N.A	4.3	52	26	100
1cx6	85/0.3	0.80	N.A	5	72.3	34	100
1cx10	140/0.3	1.00	N.A	6.2	118.9	48	100
1cx16	226/0.3	1.00	N.A	7.3	178.2	64	100
1cx25	352/0.3	1.20	N.A	9	275.2	80	100
1cx35	495/0.3	1.20	N.A	10.3	372	104	100
1cx50	706/0.3	1.40	N.A	12.2	528.5	130	100





Pvc Insulated & Sheathed Flexible Copper Control 0.50 Sqmm Cable As Per Is:694-2010

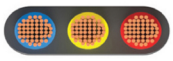
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
6cx0.5	16/0.20	0.6	0.9	7.3	107.8	3	100
7cx0.5	16/0.20	0.6	0.9	7.3	116.6	3	100
8cx0.5	16/0.20	0.6	1.0	9.6	138.4	3	100
9cx0.5	16/0.20	0.6	1.0	10.2	152.2	3	100
10cx0.5	16/0.20	0.6	1.0	11.4	170.0	2.5	100
11cx0.5	16/0.20	0.6	1.0	11.7	182.8	2.5	100
12cx0.5	16/0.20	0.6	1.0	11.7	193.6	2	100
13cx0.5	16/0.20	0.6	1.0	11.7	204.4	2	100
14cx0.5	16/0.20	0.6	1.1	12.5	226.2	2	100
15cx0.5	16/0.20	0.6	1.1	13.2	241.0	2	100
16cx0.5	16/0.20	0.6	1.1	13.2	251.8	2	100
17cx0.5	16/0.20	0.6	1.1	13.2	262.6	2	100
18cx0.5	16/0.20	0.6	1.1	13.9	278.4	2	100
19cx0.5	16/0.20	0.6	1.1	13.9	289.2	2	100
20cx0.5	16/0.20	0.6	1.2	14.6	312.0	2	100
21cx0.5	16/0.20	0.6	1.2	14.6	322.8	2	100
22cx0.5	16/0.20	0.6	1.2	16.4	345.6	2	100
23cx0.5	16/0.20	0.6	1.2	16.4	356.4	2	100
24cx0.5	16/0.20	0.6	1.2	16.4	367.2	1.5	100
25cx0.5	16/0.20	0.6	1.2	16.4	378.0	1.5	100





Pvc Insulated & Sheathed Flexible Copper Three Core Flat Cable As Per Is:694-2010

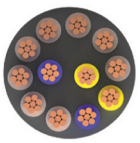
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Dimensions	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
3cx0.5	16/0.20	0.6	0.9	4.3x8.9	67.4	4	100
3cx0.75	10/0.30	0.6	0.9	4.5x9.5	79.4	7	100
3cx1.0	14/0.30	0.6	0.9	4.7x10.1	90.4	10.5	100
3cx1.5	22/0.30	0.60	0.9	5.1x11.3	117.4	13.5	100
3cx2.5	36/0.30	0.70	1.0	6.0x13.6	172.0	18	100
3cx4	56/0.30	0.80	1.0	6.3x14.5	224.3	24.5	100
3cx6	85/0.30	0.80	1.1	7.1x16.5	305.1	32.5	100
3cx10	140/0.30	1.00	1.4	9.0x21.3	495.2	45.5	100
3cx16	226/0.30	1.00	1.4	10.3x24.9	698.5	61	100
3cx25	352/030	1.20	2.0	13.2x31.2	1117.5	76	100
3cx35	495/0.30	1.20	2.0	14.4x34.8	1445.0	99	100
3cx50	398/0.40	1.40	2.2	16.7x40.9	2015.4	124	100
3cx70	356/0.50	1.40	2.2	18.4x46.0	2647.4	140	100
3cx95	484/0.50	1.60	2.4	21.0x53.0	4355.3	161	100





Pvc Insulated & Sheathed Flexible Copper Control 0.75 Sqmm Cable As Per Is:694-2010

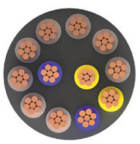
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
6cx0.75	24/0.20	0.6	1.0	9.7	134.8	4.5	100
7cx0.75	24/0.20	0.6	1.0	9.7	148.6	4.5	100
8cx0.75	24/0.20	0.6	1.0	10.3	166.4	4.5	100
9cx0.75	24/0.20	0.6	1.1	11.1	189.2	4.5	100
10cx0.75	24/0.20	0.6	1.1	12.4	212.0	4.0	100
11cx0.75	24/0.20	0.6	1.1	12.8	227.8	4.0	100
12cx0.75	24/0.20	0.6	1.1	12.8	241.6	3.5	100
13cx0.75	24/0.20	0.6	1.1	12.8	255.4	3.5	100
14cx0.75	24/0.20	0.6	1.1	13.4	274.2	3.5	100
15cx0.75	24/0.20	0.6	1.2	14.3	300.0	3.5	100
16cx0.75	24/0.20	0.6	1.2	14.3	313.8	3.0	100
17cx0.75	24/0.20	0.6	1.2	14.3	327.6	3.0	100
18cx0.75	24/0.20	0.6	1.2	15.1	347.4	3.0	100
19cx0.75	24/0.20	0.6	1.2	15.1	361.2	3.0	100
20cx0.75	24/0.20	0.6	1.3	15.9	388.0	3.0	100
21cx0.75	24/0.20	0.6	1.3	15.9	401.8	3.0	100
22cx0.75	24/0.20	0.6	1.3	17.6	429.6	3.0	100
23cx0.75	24/0.20	0.6	1.3	17.6	443.4	3.0	100
24cx0.75	24/0.20	0.6	1.3	17.6	457.2	2.5	100
25cx0.75	24/0.20	0.6	1.3	17.6	471.0	2.5	100





Pvc Insulated & Sheathed Flexible Copper Control 1.0 Sqmm Cable As Per Is:694-2010

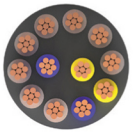
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
6cx1.0	32/0.20	0.6	1.0	10.3	155.8	7	100
7cx1.0	32/0.20	0.6	1.0	10.3	172.6	7	100
8cx1.0	32/0.20	0.6	1.0	10.9	194.4	7	100
9cx1.0	32/0.20	0.6	1.1	11.8	221.2	7	100
10cx1.0	32/0.20	0.6	1.1	13.2	247.0	6.5	100
11cx1.0	32/0.20	0.6	1.1	13.6	266.8	6.5	100
12cx1.0	32/0.20	0.6	1.1	13.6	283.6	6	100
13cx1.0	32/0.20	0.6	1.1	13.6	300.4	6	100
14cx1.0	32/0.20	0.6	1.1	14.3	322.2	6	100
15cx1.0	32/0.20	0.6	1.2	15.2	352.0	6	100
16cx1.0	32/0.20	0.6	1.2	15.2	368.8	5	100
17cx1.0	32/0.20	0.6	1.2	15.2	385.6	5	100
18cx1.0	32/0.20	0.6	1.3	16.3	417.4	5	100
19cx1.0	32/0.20	0.6	1.3	16.3	434.2	5	100
20cx1.0	32/0.20	0.6	1.4	17.1	465.0	5	100
21cx1.0	32/0.20	0.6	1.4	17.1	481.8	5	100
22cx1.0	32/0.20	0.6	1.4	19.2	515.6	5	100
23cx1.0	32/0.20	0.6	1.4	19.2	532.4	5	100
24cx1.0	32/0.20	0.6	1.4	19.2	549.2	4	100
25cx1.0	32/0.20	0.6	1.4	19.2	566.0	4	100





Pvc Insulated & Sheathed Flexible Copper Control 1.5 Sqmm Cable As Per Is:694-2010

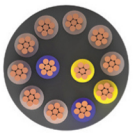
No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
6cx1.5	30/0.25	0.6	1	8.8	200.8	9	100
7cx1.5	30/0.25	0.6	1	8.8	224.6	9	100
8cx1.5	30/0.25	0.6	1.1	12.4	278.4	9	100
9cx1.5	30/0.25	0.6	1.1	13.2	308.2	9	100
10cx1.5	30/0.25	0.6	1.1	14.8	336.0	8	100
11cx1.5	30/0.25	0.6	1.1	15.2	362.8	8	100
12cx1.5	30/0.25	0.6	1.1	15.2	386.6	7	100
13cx1.5	30/0.25	0.6	1.2	15.4	420.4	7	100
14cx1.5	30/0.25	0.6	1.2	16.3	450.2	7	100
15cx1.5	30/0.25	0.6	1.2	17.1	481.0	7	100
16cx1.5	30/0.25	0.6	1.2	17.1	504.8	6	100
17cx1.5	30/0.25	0.6	1.3	17.3	546.6	6	100
18cx1.5	30/0.25	0.6	1.3	18.3	570.4	6	100
19cx1.5	30/0.25	0.6	1.3	18.3	594.2	6	100
20cx1.5	30/0.25	0.6	1.4	18.7	636.0	6	100
21cx1.5	30/0.25	0.6	1.4	18.7	659.8	6	100
22cx1.5	30/0.25	0.6	1.4	21.6	704.6	6	100
23cx1.5	30/0.25	0.6	1.4	21.6	728.4	6	100
24cx1.5	30/0.25	0.6	1.4	21.6	752.2	5	100
25cx1.5	30/0.25	0.6	1.4	21.6	776.0	5	100





Pvc Insulated & Sheathed Flexible Copper Control 2.5 Sqmm Cable As Per Is:694-2010

No. of Cores & Cross sectional Area	No. of Wirs	Thickness of Insulation	Thickness of Sheath	Approx. Diameter	Approx. Weight	Current Rating	Strandard Packing Length
					Cop.	Cop.	
Sqmm	mm	mm	mm	mm	Km/Kg	Amps.	mtrs
6cx2.5	50/0.25	0.70	1.1	10.6	298	12	100
7cx2.5	50/0.25	0.70	1.1	10.6	335	11	100
8cx2.5	50/0.25	0.70	1.2	14.9	411	11	100
9cx2.5	50/0.25	0.70	1.3	16.1	467	11	100
10cx2.5	50/0.25	0.70	1.3	18.0	510	10	100
11cx2.5	50/0.25	0.70	1.3	18.6	552	10	100
12cx2.5	50/0.25	0.70	1.3	18.6	589	10	100
13cx2.5	50/0.25	0.70	1.3	18.6	626	10	100
14cx2.5	50/0.25	0.70	1.3	19.5	671	9	100
15cx2.5	50/0.25	0.70	1.4	20.8	730	9	100
16cx2.5	50/0.25	0.70	1.4	20.8	767	9	100
17cx2.5	50/0.25	0.70	1.4	20.8	804	9	100
18cx2.5	50/0.25	0.70	1.4	22.0	851	9	100
19cx2.5	50/0.25	0.70	1.4	22.0	888	8	100
20cx2.5	50/0.25	0.70	1.5	23.1	933	8	100
21cx2.5	50/0.25	0.70	1.5	23.1	970	8	100
22cx2.5	50/0.25	0.70	1.5	26.0	1049	8	100
23cx2.5	50/0.25	0.70	1.5	26.0	1086	8	100
24cx2.5	50/0.25	0.70	1.5	26.0	1123	7	100
25cx2.5	50/0.25	0.70	1.5	26.0	1160	7	100





Lt Aerial Bunched Cables As Per Is:14255-1995

Phase Conductor Aluminium			Street Lighting Conductor Aluminium			Messenger Conductor Aluminium Alloy		
Nom. Area	Max. D.C. Conductor Resistance At 20 Deg.C	Nom. Thickness Of Insulation XLPE/PE	Nom. Area	Max. D.C. Conductor Resistance At 20 Deg.C	Nom. Thickness Of Insulation XLPE/PE	Nom. Area	Max. D.C. Conductor Resistance At 20 Deg.C	Min. Breaking Load
Sqmm	Ohm/Km	mm	Sqmm	Ohm/Km	mm	Sq/mm	Ohm/Km	KN
16	1.91	1.2	16	1.91	1.2	25	1.38	7
25	1.2	1.2	16	1.91	1.2	25	1.38	7
35	0.868	1.2	16	1.91	1.2	25	1.38	7
50	0.641	1.5	16	1.91	1.2	35	0.986	9.8
70	0.443	1.5	16	1.91	1.2	50	0.689	14
95	0.32	1.5	16	1.91	1.2	70	0.492	19.7

Composition And Designation Of Lt Aerial Bunched Cables As Per Rec Specification No. 32

Designation	Complete Bunched Cables	
	Approx. Overall Dia.	Approx. Total Mass
	mm	Kg/Km.
3X16+25	19	250
3X16+16+25	19	310
3X25+25	22	330
3X25+16+25	22	390
3X35+25	24	430
3X35+16+25	24	490
3X50+35	32	580
3X50+16+35	32	640

Lt Aerial Bundled Conductor (Abc) Polymeric Insulated As Per Bs:7870(Part-5)1999

Nominal Cross Sectional Area of Conductor	Max. D.C. Resistance At 20 Deg.C Of XLPE	Min. Average Thickness Conductor	Ultimate Tensile Strength of Insulation
Sqmm	Ohm/Km	mm	Kn
25	1.200	1.3	4.1
35	0.868	1.3	5.6
50	0.641	1.5	7.6
70	0.443	1.5	11.0
95	0.320	1.7	15.3
120	0.253	1.7	19.4

Characteristics Of Conductors And Cores For Lt Aerial Bunched Cables As Per Nfc 33-2099

Designation		Conductor					Average Thickness of Insulating Sheath Specified Min.	Core	
Type	Nominal Cross Sectional Area	No. of Strands	Max. Linear Resistance At 20 Deg.c	Min. Conductor Dia. Min.	Breaking Strength Max.	Outside Diameter Value		Max.	
	Sqmm		Ohm/Km	mm	daN	daN	mm	mm	mm
PHASE OR	16	7	1.91	4.7	190	290	1.2	7	7.9
NEUTRAL NON	25	7	1.2	6	300	450	1.4	8.7	9.6
RETURN	35	7	0.868	7	420	630	1.6	10.1	11.1
–	50	7	0.641	8.2	600	900	1.6	11.3	12.3
–	70	12	0.443	9.8	840	1260	1.8	13.3	14.3
NEUTRAL RETURN	54.6	7	0.63	9.2	1660	–	1.6	12.3	13





Aluminium Conductors (Aac) As Per Is:398(Pt-1)-1996

Aluminium Cross sectional Area (Nominal)	No. of Wirs	Approx. Diameter	Approx. Weight	Max. DC Resistance @ 20 °C	Ultimate Breaking Load	Current Rating		Strandard Packing Length
			Total			At 65 °C	At 75 °C	
Sqmm	mm	mm	Kg/Km	Ohm/Km	Kn	Amps.	Amps.	mtrs
25	7/2.21	6.63	74	1.096	4.52	107	152	2000
50	7/3.10	9.50	145	0.5525	8.28	180	225	2000
100	7/4.39	13.17	290	0.2752	15.96	292	365	1000
150	19/3.18	15.90	415	0.1942	23.28	363	460	1000
240	19/3.99	19.95	654	0.1235	35.74	495	610	500
300	19/4.65	23.25	888	0.09107	48.74	600	760	500

Aluminium Conductors, Steel Reinforced (Acsr) As Per Is:398(Pt-2)-1996

Aluminium Cross sectional Area (Nominal)	No. of Wirs		Approx. Diameter	Approx. Weight			Max. DC Resistance @ 20 °C	Ultimate Breaking Load	Current Rating		Strandard Packing Length
	Al	Steel		Total	Al	Steel			At 65 °C	At 75 °C	
Sqmm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Ohm/Km	Kn	Amps.	Amps.	mtrs
10	6/1.50	1/1.50	4.50	43	29	14	2.780	3.97	58	70	2000
20	6/2.11	1/2.11	6.33	85	58	27	1.394	7.61	89	107	2000
30	6/2.59	1/2.50	7.77	128	87	41	0.9289	11.12	114	138	2000
50	6/3.35	1/3.35	10.05	214	145	69	0.5524	18.25	157	190	2000
80	6/4.09	1/4.09	12.27	318	215	103	0.3712	26.91	200	244	2000
100	6/4.72	7/1.57	14.15	394	288	106	0.2792	31.41	239	291	1000
150	30/2.59	7/2.59	18.13	727	438	289	0.1871	67.34	329	405	1000
200	30/3.00	7/3.00	21.00	976	588	388	0.1390	89.67	395	487	1000
400	42/3.50	7/1.96	26.88	1282	1120	162	0.07311	88.79	566	705	500
420	54/3.18	7/3.18	28.62	1621	1182	439	0.06868	130.32	590	737	500
520	54/3.53	7/3.53	31.77	1998	1462	536	0.05595	159.60	667	839	500
560	42/4.13	7/2.30	31.68	1781	1553	228	0.05231	120.16	688	862	500

Marino
CABLES

EXPORTERS & MANUFACTURERS OF WIRES & CABLES

IS:1554PT-I
IS:7098 PT-I
IS:14255-1995

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