

1.1 KV SINGLE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED

1.1 KV SINGLE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED												
ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)												
Nominal Cross Sectional Area	Minimum Number of Wires	Armoured - A2XWaY					Unarmoured - A2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
		Nominal Thickness of Insulation	Nominal Dia. Of Armour Wire	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
Sq. mm		mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
4	1	1.0	1.4	1.24	10.0	115	1.8	7.5	70	7.41	36	31
6	1	1.0	1.4	1.24	10.5	135	1.8	8.0	80	4.61	44	39
10	1	1.0	1.4	1.24	11.0	165	1.8	9.0	90	3.08	59	53
16	7	1.0	1.4	1.24	13.0	200	1.8	10.0	130	1.91	76	73
25	7	1.2	1.4	1.24	14.0	260	1.8	12.0	180	1.20	96	98
35	7	1.2	1.4	1.24	15.0	310	1.8	13.0	230	0.868	114	121
50	7	1.3	1.4	1.24	17.0	390	1.8	14.0	300	0.641	135	150
70	19	1.4	1.4	1.24	19.0	505	1.8	16.0	370	0.443	166	187
95	19	1.4	1.6	1.40	20.2	620	1.8	17.5	470	0.320	198	230
120	19	1.5	1.6	1.40	23.5	740	1.8	19.0	580	0.253	225	268
150	19	1.7	1.6	1.40	24.5	860	2.0	21.5	720	0.206	250	309
185	37	1.9	1.6	1.40	26.5	1010	2.0	23.5	840	0.164	286	360
240	37	2.0	1.6	1.40	29.0	1225	2.0	26.0	1040	0.125	332	433
300	37	2.1	1.6	1.56	31.5	1450	2.0	28.5	1260	0.100	376	501
400	61	2.4	2.0	1.56	36.5	1900	2.2	33.0	1550	0.0778	431	596
500	61	2.6	2.0	1.56	39.5	2325	2.2	36.0	1900	0.0605	490	693
630	61	2.8	2.0	1.72	43.0	2810	2.2	40.0	2450	0.0469	557	814
800	91	3.0	2.0	1.88	47.9	3550	2.4	43.7	2900	0.0370	632	890
1000	91	3.2	2.5	2.04	54.4	4450	2.6	49.2	3700	0.0291	701	1102

1.1 KV SINGLE CORE, COPPER CONDUCTOR, XLPE INSULATED

1.1 KV SINGLE CORE, COPPER CONDUCTOR, XLPE INSULATED												
ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)												
Nominal Cross Sectional Area	Minimum Number of Wires	Armoured - 2XWaY					Unarmoured - 2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
		Nominal Thickness of Insulation	Nominal Dia. Of Armour Wire	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
Sq. mm		mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
4	7	1.0	1.4	1.24	10.0	155	1.8	7.5	95	4.61	46	40
6	7	1.0	1.4	1.24	10.5	192	1.8	8.0	128	3.08	57	51
10	7	1.0	1.4	1.24	12.0	235	1.8	9.5	168	1.83	76	71
16	7	1.0	1.4	1.24	13.0	290	1.8	10.0	225	1.15	97	95
25	7	1.2	1.4	1.24	14.0	410	1.8	12.0	335	0.727	124	126
35	7	1.2	1.4	1.24	16.0	510	1.8	13.0	430	0.524	148	152
50	7	1.3	1.4	1.24	17.0	660	1.8	14.0	560	0.387	174	189
70	19	1.4	1.4	1.24	19.0	925	1.8	16.0	760	0.268	213	240
95	19	1.4	1.6	1.40	22.0	1140	1.8	17.5	1010	0.193	256	297
120	19	1.5	1.6	1.40	23.5	1365	1.8	19.0	1250	0.153	289	346
150	19	1.7	1.6	1.40	24.5	1625	2.0	21.5	1560	0.124	326	390
185	37	1.9	1.6	1.40	26.5	2000	2.0	23.5	1920	0.0991	366	460
240	37	2.0	1.6	1.40	29.0	2525	2.0	26.0	2300	0.0754	425	552
300	37	2.1	1.6	1.56	31.5	3200	2.0	28.5	2925	0.0601	479	640

1.1 KV TWO CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED

1.1 KV TWO CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED														
ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - A2XWY & A2XFY					Unarmoured - A2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
				Nominal Dia. Of Armour Wire	Nominal Dimension Of Armour Strip	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
Sq. mm		mm	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
4	1	0.7	0.3	1.4	-	1.24	15	460	1.8	12.5	190	7.41	43	39
6	1	0.7	0.3	1.4	-	1.24	16	550	1.8	13.5	230	4.61	55	50
10	1	0.7	0.3	1.4	-	1.24	17	560	1.8	15.0	290	3.08	74	67
16	7	0.7	0.3	1.4	-	1.40	17	580	1.8	14.0	280	1.91	91	88
25	7	0.9	0.3	-	4 X 0.8	1.40	20	650	2.0	17.0	320	1.20	120	117
35	7	0.9	0.3	-	4 X 0.8	1.40	22	760	2.0	19.0	390	0.868	143	145
50	7	1.0	0.3	-	4 X 0.8	1.40	24	900	2.0	21.0	480	0.641	167	176
70	19	1.1	0.3	-	4 X 0.8	1.56	27	1100	2.0	23.0	630	0.443	204	221
95	19	1.1	0.4	-	4 X 0.8	1.56	29	1350	2.2	26.5	820	0.320	245	271
120	19	1.2	0.4	-	4 X 0.8	1.56	33	1600	2.2	28.5	990	0.253	278	316
150	19	1.4	0.4	-	4 X 0.8	1.72	36	1900	2.2	32.0	1190	0.206	315	362
185	37	1.6	0.5	-	4 X 0.8	1.72	38	2300	2.4	35.5	1500	0.164	356	421
240	37	1.7	0.5	-	4 X 0.8	1.88	45	2550	2.6	39.5	1900	0.125	407	497
300	37	1.8	0.6	-	4 X 0.8	2.20	46	3300	2.8	43.5	2330	0.100	463	578
400	61	2.0	0.6	-	4 X 0.8	2.36	52	4250	3.0	49.0	3600	0.0778	528	678

1.1 KV TWO CORE, COPPER CONDUCTOR, XLPE INSULATED

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ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - 2XWY & 2XFY					Unarmoured - 2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
				Nominal Dia. Of Armour Wire	Nominal Dimension Of Armour Strip	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
Sq. mm		mm	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
4	7	0.7	0.3	1.40	-	1.24	14.5	540	1.8	12.5	260	4.61	56	51
6	7	0.7	0.3	1.40	-	1.24	15.5	650	1.8	13.5	330	3.08	71	64
10	7	0.7	0.3	1.40	-	1.24	18.0	830	1.8	16.0	425	1.83	92	88
16	7	0.7	0.3	1.40	-	1.40	17.0	900	1.8	14.0	470	1.15	116	113
25	7	0.9	0.3	-	4 X 0.8	1.40	20.0	1210	2.0	17.0	700	0.727	152	153
35	7	0.9	0.3	-	4 X 0.8	1.40	22.0	1540	2.0	19.0	900	0.524	180	186
50	7	1.0	0.3	-	4 X 0.8	1.40	24.0	1950	2.0	21.0	1200	0.387	218	226
70	19	1.1	0.3	-	4 X 0.8	1.56	27.0	2700	2.0	23.0	1600	0.268	264	284
95	19	1.1	0.4	-	4 X 0.8	1.56	30.5	3600	2.2	26.5	2100	0.193	314	348
120	19	1.2	0.4	-	4 X 0.8	1.56	33.0	4200	2.2	28.5	2600	0.153	357	402
150	19	1.4	0.4	-	4 X 0.8	1.72	36.0	5250	2.2	32.0	3250	0.124	403	461
185	37	1.6	0.5	-	4 X 0.8	1.88	40.0	6400	2.4	35.5	3900	0.0991	453	533
240	37	1.7	0.5	-	4 X 0.8	2.04	42.4	8100	2.6	39.5	5000	0.0754	518	633
300	37	1.8	0.6	-	4 X 0.8	2.20	46.2	9900	2.8	43.5	6400	0.0601	583	732

1.1 KV THREE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED

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ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - A2XWY & A2XFY					Unarmoured - A2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
				Nominal Dia. Of Armour Wire	Nominal Dimension Of Armour Strip	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
Sq. mm		mm	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
4	1	0.7	0.3	1.40	-	1.24	15.0	495	1.8	14.0	200	7.41	34	31
6	1	0.7	0.3	1.40	-	1.24	16.0	560	1.8	15.5	225	4.61	43	40
10	1	0.7	0.3	1.40	-	1.24	18.0	665	1.8	17.0	300	3.08	57	53
16	7	0.7	0.3	-	4 X 0.8	1.24	19.0	700	1.8	16.2	365	1.91	73	70
25	7	0.9	0.3	-	4 X 0.8	1.40	21.7	760	2.0	19.5	480	1.20	94	96
35	7	0.9	0.3	-	4 X 0.8	1.40	23.6	890	2.0	21.5	580	0.868	113	117
50	7	1.0	0.3	-	4 X 0.8	1.40	26.8	1000	2.0	24.5	700	0.641	133	142
70	19	1.1	0.4	-	4 X 0.8	1.56	30.9	1375	2.2	28.0	980	0.443	164	179
95	19	1.1	0.4	-	4 X 0.8	1.56	33.7	1650	2.2	30.8	1250	0.320	196	221
120	19	1.2	0.4	-	4 X 0.8	1.56	37.0	2000	2.2	33.8	1500	0.253	223	257
150	19	1.4	0.5	-	4 X 0.8	1.72	41.1	2300	2.4	37.9	1900	0.206	249	292
185	37	1.6	0.5	-	4 X 0.8	1.88	46.0	2850	2.6	42.0	2300	0.164	282	337
240	37	1.7	0.6	-	4 X 0.8	2.04	50.9	3500	2.8	46.9	2900	0.125	326	399
300	37	1.8	0.6	-	4 X 0.8	2.20	55.5	4250	3.0	51.5	3550	0.100	367	456
400	61	2.0	0.7	-	4 X 0.8	2.52	64.0	5800	3.2	58.6	4150	0.0778	418	530

1.1 KV THREE CORE, COPPER CONDUCTOR, XLPE INSULATED

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ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - 2XWY & 2XFY					Unarmoured - 2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
				Nominal Dia. Of Armour Wire	Nominal Dimension Of Armour Strip	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
Sq. mm		mm	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
4	7	0.7	0.3	1.40	-	1.24	15.0	540	1.8	14.0	310	4.61	44	40
6	7	0.7	0.3	1.40	-	1.24	16.0	650	1.8	15.5	375	3.08	55	51
10	7	0.7	0.3	1.40	-	1.24	19.0	830	1.8	18.0	515	1.83	73	70
16	7	0.7	0.3	-	4 X 0.8	1.24	18.8	900	1.8	18.0	630	1.15	97	90
25	7	0.9	0.3	-	4 X 0.8	1.40	21.7	1210	2.0	19.5	950	0.727	122	123
35	7	0.9	0.3	-	4 X 0.8	1.40	23.6	1540	2.0	21.5	1250	0.524	146	151
50	7	1.0	0.3	-	4 X 0.8	1.40	26.8	1950	2.0	24.5	1650	0.387	172	183
70	19	1.1	0.4	-	4 X 0.8	1.56	30.9	2700	2.2	28.0	2210	0.268	211	231
95	19	1.1	0.4	-	4 X 0.8	1.56	33.7	3600	2.2	30.8	3150	0.193	253	285
120	19	1.2	0.4	-	4 X 0.8	1.56	37.0	4200	2.2	33.8	3780	0.153	287	330
150	19	1.4	0.5	-	4 X 0.8	1.72	41.1	5250	2.4	37.9	4790	0.124	321	375
185	37	1.6	0.5	-	4 X 0.8	1.88	46.0	6400	2.6	42.0	5825	0.0991	361	430
240	37	1.7	0.6	-	4 X 0.8	2.04	50.9	8100	2.8	46.9	7500	0.0754	416	508
300	37	1.8	0.6	-	4 X 0.8	2.20	55.5	9900	3.0	51.5	9400	0.0601	464	575

1.1 KV THREE AND A HALF CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED

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ARMoured & UNARMoured CABLES CONFORMING TO IS : 7098 (PART I)																	
Nominal Cross Sectional Area		Minimum Number of Wires		Nominal Thickness of Insulation		Minimum Thickness of Inner Sheath	Armoured - A2XWY & A2XFY				Unarmoured - A2XY			Max. D.C Conductor Resistance at 20°C		Current Ratings	
Main	Neutral	Main	Neutral	Main	Neutral		Nominal Dimension Of Armour	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Main	Neutral	Direct in Ground	In air
Sq. mm	Sq. mm	Nos	Nos	mm	mm		mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Ohm/Km	Amps	Amps
25	16	7	7	0.9	0.7	0.3	4 X 0.8	1.40	23.6	850	2.0	21.3	580	1.20	1.91	94	96
35	16	7	7	0.9	0.7	0.3	4 X 0.8	1.40	25.8	1000	2.0	23.6	690	0.868	1.91	113	117
50	25	7	7	1.0	0.9	0.3	4 X 0.8	1.40	29.5	1325	2.0	26.8	890	0.641	1.20	133	142
70	35	19	7	1.1	0.9	0.4	4 X 0.8	1.56	34.0	1575	2.2	31.0	1210	0.443	0.868	164	179
95	50	19	7	1.1	1.0	0.4	4 X 0.8	1.56	37.2	1975	2.2	34.3	1540	0.320	0.641	196	221
120	70	19	19	1.2	1.1	0.4	4 X 0.8	1.72	41.0	2390	2.2	37.5	1880	0.253	0.443	223	257
150	70	19	19	1.4	1.1	0.5	4 X 0.8	1.72	45.0	2785	2.4	41.0	2270	0.206	0.443	249	292
185	95	37	19	1.6	1.1	0.5	4 X 0.8	1.88	50.0	3300	2.6	46.5	2800	0.164	0.320	282	337
240	120	37	19	1.7	1.2	0.6	4 X 0.8	2.04	56.0	4100	2.8	52.5	3600	0.125	0.253	326	399
300	150	37	19	1.8	1.4	0.6	4 X 0.8	2.20	61.0	4900	3.0	56.0	4350	0.100	0.206	367	456
400	185	61	37	2.0	1.6	0.7	4 X 0.8	2.52	70.0	6850	3.4	64.0	6100	0.0778	0.164	418	530

1.1 KV THREE AND A HALF CORE, COPPER CONDUCTOR, XLPE INSULATED

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ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)

Nominal Cross Sectional Area		Minimum Number of Wires		Nominal Thickness of Insulation		Minimum Thickness of Inner Sheath	Armoured - 2XWY & 2XFY				Unarmoured - 2XY			Max. D.C Conductor Resistance at 20°C		Current Ratings	
Main	Neutral	Main	Neutral	Main	Neutral		Nominal Dimension Of Armour	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Main	Neutral	Direct in Ground	In air
Sq. mm	Sq. mm	Nos	Nos	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Ohm/Km	Amps	Amps	
25	16	7	7	0.9	0.7	0.3	4 X 0.8	1.40	23.6	1390	2.0	21.3	1100	0.727	1.15	122	123
35	16	7	7	0.9	0.7	0.3	4 X 0.8	1.40	25.8	1710	2.0	23.6	1400	0.524	1.15	146	151
50	25	7	7	1.0	0.9	0.3	4 X 0.8	1.40	29.0	2200	2.0	26.8	1900	0.387	0.727	172	183
70	35	19	7	1.1	0.9	0.4	4 X 0.8	1.56	33.9	3050	2.2	31.0	2600	0.268	0.524	211	231
95	50	19	7	1.1	1.0	0.4	4 X 0.8	1.56	37.2	4000	2.2	34.3	3500	0.193	0.387	253	285
120	70	19	19	1.2	1.1	0.4	4 X 0.8	1.72	41.0	5000	2.2	37.6	4400	0.153	0.268	287	330
150	70	19	19	1.4	1.1	0.5	4 X 0.8	1.72	45.0	5980	2.4	42.3	5425	0.124	0.268	321	375
185	95	37	19	1.6	1.1	0.5	4 X 0.8	1.88	50.0	7350	2.6	46.8	6700	0.0991	0.193	361	430
240	120	37	19	1.7	1.2	0.6	4 X 0.8	2.04	56.0	9260	2.8	52.4	8400	0.0754	0.153	416	508
300	150	37	19	1.8	1.4	0.6	4 X 0.8	2.20	61.0	11450	3.0	57.0	10450	0.0601	0.124	464	575

1.1 KV FOUR CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED

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ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - A2XWY & A2XFY					Unarmoured - A2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
				Nominal Dia. Of Armour Wire	Nominal Dimension Of Armour Strip	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
Sq. mm		mm	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
4	1	0.7	0.3	1.4	-	1.24	15.0	480	1.8	13.5	250	7.41	34	31
6	1	0.7	0.3	1.4	-	1.24	16.0	570	1.8	14.5	300	4.61	43	40
10	1	0.7	0.3	1.4	-	1.40	18.0	700	1.8	16.5	385	3.08	57	53
16	7	0.7	0.3	-	4 X 0.8	1.40	19.0	700	1.8	18.5	450	1.91	73	70
25	7	0.9	0.3	-	4 X 0.8	1.40	23.0	950	2.0	22.5	[0o	1.20	94	96
35	7	0.9	0.3	-	4 X 0.8	1.40	25.0	1100	2.0	25.0	685	0.868	113	117
50	7	1.0	0.3	-	4 X 0.8	1.56	29.0	1400	2.0	28.5	850	0.641	133	142
70	19	1.1	0.4	-	4 X 0.8	1.56	33.0	1800	2.2	33.0	1100	0.443	164	179
95	19	1.1	0.4	-	4 X 0.8	1.56	38.0	2200	2.2	37.0	1450	0.320	196	221
120	19	1.2	0.5	-	4 X 0.8	1.72	42.0	2700	2.2	42.0	1880	0.253	223	257
150	19	1.4	0.5	-	4 X 0.8	1.88	47.0	3200	2.4	46.0	2300	0.206	249	292
185	37	1.6	0.5	-	4 X 0.8	2.04	52.0	4000	2.6	51.0	2900	0.164	282	337
240	37	1.7	0.6	-	4 X 0.8	2.20	57.5	4900	2.8	57.0	3600	0.125	326	399
300	37	1.8	0.7	-	4 X 0.8	2.36	64.5	5800	3.0	63.0	4450	0.100	367	456
400	61	2.0	0.7	-	4 X 0.8	2.68	71.5	7500	3.2	71.0	6750	0.0778	418	530

1.1 KV FOUR CORE, COPPER CONDUCTOR, XLPE INSULATED

1.1 KV FOUR CORE, COPPER CONDUCTOR, XLPE INSULATED														
ARMOURED & UNARMOURED CABLES CONFORMING TO IS : 7098 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - 2XWY & 2XFY					Unarmoured - 2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
				Nominal Dia. Of Armour Wire	Nominal Dimension Of Armour Strip	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
Sq. mm		mm	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
4	7	0.7	0.3	1.40	-	1.24	16.0	660	1.8	14.5	360	4.61	44	40
6	7	0.7	0.3	1.40	-	1.24	17.5	800	1.8	16.0	510	3.08	55	51
10	7	0.7	0.3	1.40	-	1.24	18.5	940	1.8	18.0	680	1.83	73	70
16	7	0.7	0.3	-	4 X 0.8	1.40	19.5	1150	1.8	19.0	880	1.15	97	90
25	7	0.9	0.3	-	4 X 0.8	1.40	23.5	1630	2.0	23.0	1320	0.727	122	123
35	7	0.9	0.3	-	4 X 0.8	1.40	26.0	2050	2.0	26.0	1730	0.524	146	151
50	7	1.0	0.3	-	4 X 0.8	1.56	30.0	2700	2.0	28.0	2300	0.387	172	183
70	19	1.1	0.4	-	4 X 0.8	1.56	34.0	3500	2.2	33.0	3200	0.268	211	231
95	19	1.1	0.4	-	4 X 0.8	1.56	38.0	4650	2.2	37.0	4150	0.193	253	285
120	19	1.2	0.5	-	4 X 0.8	1.72	42.0	5700	2.4	41.0	5200	0.153	287	330
150	19	1.4	0.5	-	4 X 0.8	1.88	47.0	7000	2.6	46.0	6500	0.124	321	375
185	37	1.6	0.5	-	4 X 0.8	2.04	52.0	8600	2.8	51.0	8000	0.0991	416	430
240	37	1.7	0.6	-	4 X 0.8	2.20	58.0	10900	3.0	57.0	10200	0.0754	464	508
300	37	1.8	0.7	-	4 X 0.8	2.36	64.0	13200	3.2	63.0	12300	0.0601	521	575

1.1 KV 1.5 SQMM COPPER CONDUCTOR, XLPE INSULATED

1.1 KV 1.5 Sqmm COPPER CONDUCTOR, XLPE INSULATED													
ARMOURED & UNARMOURED CONTROL CABLES CONFORMING TO IS : 7098 (PART I)													
Number of Cores	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - 2XWY & 2XFY					Unarmoured - 2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
			Nominal Dia. Of Armour Wire	Nominal Dimension Of Armour Strip	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
	mm	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
2	0.7	0.3	1.4	-	1.24	12.0	350	1.8	10.0	150	12.1	26	26
3	0.7	0.3	1.4	-	1.24	12.5	380	1.8	10.5	180	12.1	24	24
4	0.7	0.3	1.4	-	1.24	13.5	425	1.8	11.5	210	12.1	24	24
5	0.7	0.3	1.4	-	1.24	14.5	480	1.8	12.1	240	12.1	20	24
6	0.7	0.3	1.4	-	1.24	15.5	520	1.8	14.5	260	12.1	14	16
7	0.7	0.3	1.4	-	1.24	15.5	540	1.8	14.5	270	12.1	14	16
10	0.7	0.3	1.4	-	1.24	18.5	700	1.8	16.5	360	12.1	13	14
12	0.7	0.3	1.4	-	1.24	19.0	750	1.8	17.0	410	12.1	12	13
14	0.7	0.3	1.4	-	1.40	20.5	850	1.8	18.0	460	12.1	11	13
16	0.7	0.3	-	4 X 0.8	1.40	20.5	750	1.8	19.0	510	12.1	11	11
19	0.7	0.3	-	4 X 0.8	1.40	21.5	860	1.8	20.0	600	12.1	10	11
24	0.7	0.3	-	4 X 0.8	1.40	24.5	1050	2.0	23.5	730	12.1	10	10
27	0.7	0.3	-	4 X 0.8	1.40	25.0	1110	2.0	24.0	820	12.1	8	9
30	0.7	0.3	-	4 X 0.8	1.40	26.0	1200	2.0	25.0	910	12.1	8	9
37	0.7	0.3	-	4 X 0.8	1.40	28.0	1400	2.0	27.0	1050	12.1	7	8

1.1 KV 2.5 SQMM COPPER CONDUCTOR, XLPE INSULATED

1.1 KV 2.5 Sq.mm COPPER CONDUCTOR, XLPE INSULATED													
ARMOURED & UNARMOURED CONTROL CABLES CONFORMING TO IS : 7098 (PART I)													
Number of Cores	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - 2XWY & 2XFY					Unarmoured - 2XY			Max. D.C Conductor Resistance at 20°C	Current Ratings	
			Nominal Dia. Of Armour Wire	Nominal Dimension Of Armour Strip	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground	In air
	mm	mm	mm	mm	mm	mm	kg/km	mm	mm	kg/km	Ohm/Km	Amps	Amps
2	0.7	0.3	1.4	-	1.24	13.0	400	1.8	11.0	200	7.41	36	32
3	0.7	0.3	1.4	-	1.24	13.5	440	1.8	11.5	220	7.41	31	29
4	0.7	0.3	1.4	-	1.24	14.5	500	1.8	12.5	265	7.41	31	29
5	0.7	0.3	1.4	-	1.24	15.5	575	1.8	13.5	310	7.41	31	29
6	0.7	0.3	1.4	-	1.24	16.5	600	1.8	15.0	345	7.41	23	20
7	0.7	0.3	1.4	-	1.24	16.5	640	1.8	15.0	370	7.41	23	20
10	0.7	0.3	-	4 X 0.8	1.40	19.5	700	1.8	18.5	500	7.41	19	17
12	0.7	0.3	-	4 X 0.8	1.40	20.0	770	1.8	19.0	560	7.41	18	17
14	0.7	0.3	-	4 X 0.8	1.40	21.0	870	1.8	20.0	650	7.41	17	16
16	0.7	0.3	-	4 X 0.8	1.40	22.0	950	2.0	21.5	730	7.41	17	14
19	0.7	0.3	-	4 X 0.8	1.40	22.8	1080	2.0	23.0	840	7.41	16	13
24	0.7	0.3	-	4 X 0.8	1.40	27.0	1300	2.0	26.5	1025	7.41	14	12
27	0.7	0.3	-	4 X 0.8	1.40	27.0	1400	2.0	27.0	1150	7.41	14	12
30	0.7	0.3	-	4 X 0.8	1.40	28.5	1500	2.0	28.0	1200	7.41	13	11
37	0.7	0.3	-	4 X 0.8	1.56	31.0	1800	2.0	30.0	1500	7.41	11	11

SHORT CIRCUIT RATINGS

MAXIMUM PERMISSIBLE SHORT CIRCUIT RATINGS		
FOR PVC INSULATED CABLES		
Nominal Area of Conductor	Short circuit rating for one second duration	
	Aluminium	Copper
Sq. mm	kA	kA
1.50	0.114	0.172
2.50	0.190	0.287
4.00	0.304	0.460
6.00	0.456	0.690
10.00	0.760	1.150
16.00	1.216	1.840
25.00	1.900	2.875
35.00	2.660	4.020
50.00	3.801	5.750
70.00	5.323	8.050
95.00	7.222	10.920
120.00	9.121	13.800
150.00	11.399	17.251
185.00	14.060	21.272
240.00	18.242	27.599
300.00	22.803	34.501
400.00	30.405	46.000
500.00	38.001	57.502
630.00	47.889	72.453
800.00	60.808	92.000
1000.00	75.999	115.000

Initial Temperature 70°C 70°C
 Final Temperature 160°C 160°C

MAXIMUM PERMISSIBLE SHORT CIRCUIT RATINGS		
FOR XLPE INSULATED CABLES		
Nominal Area of Conductor	Short circuit rating for one second duration	
	Aluminium	Copper
Sq. mm	kA	kA
16.00	1.51	2.28
25.00	2.36	3.57
35.00	3.30	5.00
50.00	4.72	7.15
70.00	6.60	10.00
95.00	8.96	13.58
120.00	11.32	17.16
150.00	14.16	21.45
185.00	17.46	26.45
240.00	22.65	34.32
300.00	28.32	42.90
400.00	37.76	57.20
500.00	47.20	71.50
630.00	59.47	90.00
800.00	75.52	0.00
1000.00	94.40	0.00

Initial Temperature 90°C 90°C
 Final Temperature 250°C 250°C