

1.1 KV SINGLE CORE, ALUMINIUM CONDUCTOR, PVC INSULATED ALUMINIUM WIRE / STRIP

1.1 KV SINGLE CORE, ALUMINIUM CONDUCTOR, PVC INSULATED ALUMINIUM WIRE / STRIP															
ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)															
Nominal Cross Sectional Area	Minimum Number of Wires	Armoured - AYWaY					Unarmoured - AYY				Max. D.C Conductor Resistance at 20°C	Current Ratings			
		Nominal Thickness of Insulation	Aluminium Wire Dia	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Insulation	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground		In air	
												2 Cables	3 Cables	2 Cables Amps	3 Cables Amps
Sq. mm		mm	mm	mm	mm	kg/km	mm	mm	mm	kg/km	Ohm/Km	Amps	Amps	Amps	Amps
4	1	1.3	1.4	1.24	11.0	155	1.0	1.8	8	75	7.41	36	31	32	27
6	1	1.3	1.4	1.24	11.5	175	1.0	1.8	9	90	4.61	44	39	41	35
10	1	1.3	1.4	1.24	12.0	205	1.0	1.8	10	105	3.08	50	51	56	47
16	7	1.3	1.4	1.24	14.0	230	1.0	1.8	11	140	1.91	75	66	72	64
25	7	1.5	1.4	1.24	15.5	300	1.2	1.8	13	195	1.20	97	86	99	84
35	7	1.5	1.4	1.24	16.5	350	1.2	1.8	14	235	0.868	97	100	120	105
50	7	1.7	1.4	1.24	18.0	430	1.4	1.8	16	305	0.641	120	120	150	130
70	19	1.7	1.4	1.40	20.5	530	1.4	1.8	17	385	0.443	145	140	185	155
95	19	1.9	1.6	1.40	22.0	610	1.6	1.8	19	515	0.320	170	175	215	190
120	19	1.9	1.6	1.40	24.0	710	1.6	2.0	21	610	0.253	205	195	240	220
150	19	2.1	1.6	1.40	26.5	840	1.8	2.0	23	735	0.206	230	220	270	250
185	37	2.3	1.6	1.40	29.0	1020	2.0	2.0	25	885	0.164	265	240	305	290
240	37	2.5	1.6	1.56	32.0	1250	2.2	2.0	28	1100	0.125	300	270	350	335
300	37	2.7	1.6	1.56	33.0	1500	2.4	2.0	30	1335	0.100	335	295	395	380
400	61	3.0	2	1.56	39.0	1910	2.6	2.2	35	1665	0.0778	370	325	455	435
500	61	3.4	2	1.72	42.0	2350	3.0	2.2	38	2130	0.0605	410	345	490	480
630	61	3.9	2	1.72	48.0	2920	3.4	2.4	43	2685	0.0469	435	390	560	550
800	91	3.9	2	1.88	52.0	3510	3.4	2.4	48	3255	0.0367	525	440	650	640
1000	91	3.9	2.5	2.04	59.0	4300	3.4	2.6	52	3960	0.0291	570	490	735	720

1.1 KV SINGLE CORE, COPPER CONDUCTOR, PVC INSULATED ALUMINIUM WIRE / STRIP

1.1 KV SINGLE CORE, COPPER CONDUCTOR, PVC INSULATED ALUMINIUM WIRE / STRIP															
ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)															
Nominal Cross Sectional Area	Minimum Number of Wires	Armoured - YWaY					Unarmoured - YY				Max. D.C Conductor Resistance at 20°C	Current Ratings			
		Nominal Thickness of Insulation	Aluminium Wire Dia	Minimum Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable	Nominal Thickness of Insulation	Nominal Thickness of Outer Sheath	Approx. Overall Dia. of Cable	Approx. Weight of Cable		Direct in Ground		In air	
												2 Cables	3 Cables	2 Cables Amps	3 Cables Amps
Sq. mm		mm	mm	mm	mm	kg/km	mm	mm	mm	kg/km	Ohm/Km	Amps	Amps	Amps	Amps
4	7	1.3	1.4	1.24	11	180	1.0	1.8	8	100	4.610	46	39	43	35
6	7	1.3	1.4	1.24	11.5	215	1.0	1.8	9	130	3.080	57	49	54	44
10	7	1.3	1.4	1.24	12.5	270	1.0	1.8	10	170	1.830	75	65	72	60
16	7	1.3	1.4	1.24	13.5	330	1.0	1.8	11	240	1.150	94	85	92	82
25	7	1.5	1.4	1.24	15.0	460	1.2	1.8	12.5	350	0.727	125	110	125	110
35	7	1.5	1.4	1.24	16.0	575	1.2	1.8	13.5	455	0.524	150	130	155	130
50	7	1.7	1.4	1.24	18.0	740	1.4	1.8	15	620	0.387	180	155	190	165
70	19	1.7	1.4	1.40	20.0	970	1.4	1.8	17	820	0.268	220	190	235	205
95	19	1.9	1.6	1.40	22.0	1200	1.6	1.8	19	1105	0.193	265	220	275	245
120	19	1.9	1.6	1.40	23.5	1460	1.6	2.0	21	1355	0.153	300	250	310	280
150	19	2.1	1.6	1.40	24.0	1770	1.8	2.0	22.5	1665	0.124	340	280	345	320
185	37	2.3	1.6	1.40	26.0	2170	2.0	2.0	25	2040	0.0991	380	305	390	370
240	37	2.5	1.6	1.56	29.0	2740	2.2	2.0	28	2590	0.0754	420	345	445	425
300	37	2.7	1.6	1.56	32.0	3360	2.4	2.0	30	3200	0.0601	465	375	500	475

1.1 KV TWO CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED

1.1 KV TWO CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - AYWY & AYY					Unarmoured - AYY			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	1.0	0.3	1.4	-	1.24	15	450	1.8	14.0	185	7.41	32	27
6	1	1.0	0.3	1.4	-	1.24	16	500	1.8	14.5	220	4.61	40	35
10	1	1.0	0.3	1.4	-	1.24	18	600	1.8	16.0	275	3.08	55	47
16	7	1.0	0.3	-	4 x 0.8	1.40	17	500	1.8	17.5	285	1.91	70	59
25	7	1.2	0.3	-	4 x 0.8	1.40	19	650	2.0	19.5	405	1.20	90	78
35	7	1.2	0.3	-	4 x 0.8	1.40	21	750	2.0	20.5	490	0.868	110	99
50	7	1.4	0.3	-	4 x 0.8	1.40	24	950	2.0	24.0	650	0.641	135	125
70	19	1.4	0.3	-	4 x 0.8	1.56	27	1150	2.0	27.0	800	0.443	160	150
95	19	1.6	0.4	-	4 x 0.8	1.56	31	1460	2.2	28.5	1065	0.320	190	185
120	19	1.6	0.4	-	4 x 0.8	1.56	33	1670	2.2	33.0	1250	0.253	210	210
150	19	1.8	0.4	-	4 x 0.8	1.72	37	2010	2.4	34.0	1550	0.206	240	240
185	37	2.0	0.5	-	4 x 0.8	1.88	41	2450	2.4	37.0	1880	0.164	275	275
240	37	2.2	0.5	-	4 x 0.8	2.04	45	2950	2.6	42.5	2400	0.125	320	325
300	37	2.4	0.6	-	4 x 0.8	2.20	50	3560	2.8	45.5	2920	0.100	355	365
400	61	2.6	0.7	-	4 x 0.8	2.36	56	4500	3.2	51.5	3815	0.0778	385	420

1.1 KV TWO CORE, COPPER CONDUCTOR, PVC INSULATED, INNER SHEATHED

1.1 KV TWO CORE, COPPER CONDUCTOR, PVC INSULATED, INNER SHEATHED ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - YWY & YFY					Unarmoured - YY			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	1.0	0.3	1.4	-	1.24	15	500	1.8	13.5	235	4.61	41	35
6	7	1.0	0.3	1.4	-	1.24	16	580	1.8	14.5	295	3.08	50	45
10	7	1.0	0.3	1.4	-	1.24	18	730	1.8	16.0	400	1.83	70	60
16	7	1.0	0.3	-	4 x 0.8	1.40	18	740	1.8	17.5	485	1.15	90	78
25	7	1.2	0.3	-	4 x 0.8	1.40	20	960	2.0	19.5	715	0.727	115	105
35	7	1.2	0.3	-	4 x 0.8	1.40	22	1200	2.0	20.5	925	0.524	140	125
50	7	1.4	0.3	-	4 x 0.8	1.40	25	1580	2.0	24.0	1270	0.387	165	155
70	19	1.4	0.3	-	4 x 0.8	1.56	28	2020	2.0	27.0	1670	0.268	205	195
95	19	1.6	0.4	-	4 x 0.8	1.56	31	2650	2.2	28.5	2250	0.193	240	230
120	19	1.6	0.4	-	4 x 0.8	1.56	33	3160	2.2	33.0	2750	0.153	275	265
150	19	1.8	0.4	-	4 x 0.8	1.72	37	3870	2.4	34.0	3410	0.124	310	305
185	37	2.0	0.5	-	4 x 0.8	1.88	41	4750	2.4	37.0	4170	0.0991	350	350
240	37	2.2	0.5	-	4 x 0.8	2.04	45	5930	2.6	42.5	5370	0.0754	405	410
300	37	2.4	0.6	-	4 x 0.8	2.20	56	7300	2.8	45.5	6640	0.0601	450	465

1.1 KV THREE CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED

1.1 KV THREE CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - AYWY & AIFY					Unarmoured - AYY			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	1.0	0.3	1.4	-	1.24	15.5	500	1.8	13.5	210	7.41	28	23
6	1	1.0	0.3	1.4	-	1.24	17	575	1.8	15	255	4.61	35	30
10	1	1.0	0.3	1.4	-	1.40	19	700	1.8	16.5	325	3.08	46	40
16	7	1.0	0.3	-	4 x 0.8	1.40	20	650	1.8	17.5	360	1.91	60	51
25	7	1.2	0.3	-	4 x 0.8	1.40	22	800	2.0	22	520	1.20	76	70
35	7	1.2	0.3	-	4 x 0.8	1.40	25	950	2.0	23	640	0.868	92	86
50	7	1.4	0.3	-	4 x 0.8	1.56	27	1200	2.0	27	850	0.641	110	105
70	19	1.4	0.4	-	4 x 0.8	1.56	31	1500	2.2	31	1110	0.443	135	130
95	19	1.6	0.4	-	4 x 0.8	1.56	34	1900	2.2	33	1425	0.320	165	155
120	19	1.6	0.4	-	4 x 0.8	1.72	38	2240	2.2	36	1690	0.253	185	180
150	19	1.8	0.5	-	4 x 0.8	1.88	42	2700	2.4	41	2120	0.206	210	205
185	37	2.0	0.5	-	4 x 0.8	1.88	46	3200	2.6	45	2600	0.164	235	240
240	37	2.2	0.6	-	4 x 0.8	2.20	52	3990	2.8	50	3290	0.125	275	280
300	37	2.4	0.6	-	4 x 0.8	2.36	56.5	4850	3.0	55.5	4050	0.100	305	315
400	61	2.6	0.7	-	4 x 0.8	2.52	64	6100	3.4	63.5	5290	0.0778	335	375

1.1 KV THREE CORE, COPPER CONDUCTOR, PVC INSULATED, INNER SHEATHED

1.1 KV THREE CORE, COPPER CONDUCTOR, PVC INSULATED, INNER SHEATHED ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - YWY & YFY					Unarmoured - YY			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	1.0	0.3	1.4	-	1.24	15.5	580	1.8	13.5	290	4.61	36	30
6	7	1.0	0.3	1.4	-	1.24	17	700	1.8	15	370	3.08	45	39
10	7	1.0	0.3	1.4	-	1.40	19	890	1.8	16.5	510	1.83	60	52
16	7	1.0	0.3	-	4 x 0.8	1.40	20	950	1.8	17.5	660	1.15	77	66
25	7	1.2	0.3	-	4 x 0.8	1.40	22	1270	2.0	22	990	0.727	99	90
35	7	1.2	0.3	-	4 x 0.8	1.40	25	1600	2.0	23	1290	0.524	120	110
50	7	1.4	0.3	-	4 x 0.8	1.56	27	2150	2.0	27	1780	0.387	145	135
70	19	1.4	0.4	-	4 x 0.8	1.56	31	2800	2.2	31	2410	0.268	175	165
95	19	1.6	0.4	-	4 x 0.8	1.56	34	3670	2.2	33	3190	0.193	210	200
120	19	1.6	0.4	-	4 x 0.8	1.72	38	4470	2.2	36	3920	0.153	240	230
150	19	1.8	0.5	-	4 x 0.8	1.88	42	5500	2.4	41	4910	0.124	270	265
185	37	2.0	0.5	-	4 x 0.8	1.88	46	6650	2.6	45	6040	0.0991	300	305
240	37	2.2	0.6	-	4 x 0.8	2.20	52	8450	2.8	50	7750	0.0754	345	355
300	37	2.4	0.6	-	4 x 0.8	2.36	56.5	10450	3.0	55.5	9620	0.0601	385	400

1.1 KV THREE AND A HALF CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED

1.1 KV THREE AND A HALF CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED																	
ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)																	
Nominal Cross Sectional Area		Minimum Number of Wires		Nominal Thickness of Insulation		Minimum Thickness of Inner Sheath	Armoured - AYWY & AYFY				Unarmoured - AYY			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	1.2	1.0	0.3	4x0.8	1.40	24	900	2.0	23	615	1.20	1.91	76	70
35	16	7	7	1.2	1.0	0.3	4x0.8	1.40	26	1030	2.0	25	715	0.868	1.91	92	86
50	25	7	7	1.4	1.2	0.3	4x0.8	1.56	30	1350	2.2	29	955	0.641	1.20	100	105
70	35	19	7	1.4	1.2	0.4	4x0.8	1.56	33	1725	2.2	33	1290	0.443	0.868	135	130
95	50	19	7	1.6	1.4	0.4	4x0.8	1.56	37	2130	2.2	37	1640	0.320	0.641	165	155
120	70	19	19	1.6	1.4	0.5	4x0.8	1.72	41	2580	2.4	39	2020	0.253	0.443	185	180
150	70	19	19	1.8	1.4	0.5	4x0.8	1.88	44	3050	2.4	43	2380	0.206	0.443	210	205
185	95	37	19	2.0	1.6	0.5	4x0.8	2.04	50	3650	2.6	47	2945	0.164	0.320	235	240
240	120	37	19	2.2	1.6	0.6	4x0.8	2.20	55	4580	3.0	54	3800	0.125	0.253	275	280
300	150	37	19	2.4	1.8	0.6	4x0.8	2.36	61	5500	3.2	58	4650	0.100	0.206	305	315
400	185	61	37	2.6	2.0	0.7	4x0.8	2.68	68	7000	3.4	65	6000	0.0778	0.164	335	375

1.1 KV THREE AND A HALF CORE, COPPER CONDUCTOR, PVC INSULATED, INNER SHEATHED

1.1 KV THREE AND A HALF CORE, COPPER CONDUCTOR, PVC INSULATED, INNER SHEATHED																	
ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)																	
Nominal Cross Sectional Area		Minimum Number of Wires		Nominal Thickness of Insulation		Minimum Thickness of Inner Sheath	Armoured - YWY & YFY				Unarmoured - YY			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	1.2	1.0	0.3	4x0.8	1.40	24	1465	2.0	23	1180	0.727	1.15	99	90
35	16	7	7	1.2	1.0	0.3	4x0.8	1.40	26	1780	2.0	25	1465	0.524	1.15	120	110
50	25	7	7	1.4	1.2	0.3	4x0.8	1.56	30	2435	2.2	29	2040	0.387	0.727	145	135
70	35	19	7	1.4	1.2	0.4	4x0.8	1.56	33	3245	2.2	33	2810	0.268	0.524	175	165
95	50	19	7	1.6	1.4	0.4	4x0.8	1.56	37	4210	2.2	37	3715	0.193	0.387	210	200
120	70	19	19	1.6	1.4	0.5	4x0.8	1.72	41	5240	2.4	39	4680	0.153	0.268	240	230
150	70	19	19	1.8	1.4	0.5	4x0.8	1.88	44	6270	2.4	43	5600	0.124	0.268	270	265
185	95	37	19	2.0	1.6	0.5	4x0.8	2.04	50	7675	2.6	47	6970	0.0991	0.193	300	305
240	120	37	19	2.2	1.6	0.6	4x0.8	2.20	55	9780	3.0	54	9000	0.0754	0.153	345	355
300	150	37	19	2.4	1.8	0.6	4x0.8	2.36	61	12000	3.2	58	11150	0.0601	0.124	385	400

1.1 KV FOUR CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED

1.1 KV FOUR CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED														
ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Nominal Thickness of Inner Sheath	Armoured - AYWY & AYY					Unarmoured - AYY			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	1.0	0.3	1.4	-	1.24	18.0	550	1.8	15.5	220	7.41	28	23
6	1	1.0	0.3	1.4	-	1.24	19.5	650	1.8	17.0	260	4.61	35	30
10	1	1.0	0.3	-	4 x 0.8	1.40	20.0	660	1.8	19.0	340	3.08	46	40
16	7	1.0	0.3	-	4 x 0.8	1.40	23.0	750	2.0	21.5	460	1.91	60	51
25	7	1.2	0.3	-	4 x 0.8	1.40	24.0	950	2.0	24.0	600	1.20	76	70
35	7	1.2	0.3	-	4 x 0.8	1.40	27.0	1165	2.0	26.5	800	0.868	92	86
50	7	1.4	0.4	-	4 x 0.8	1.56	31.0	1540	2.2	32.5	1100	0.641	110	105
70	19	1.4	0.4	-	4 x 0.8	1.56	35.0	1800	2.2	33.5	1400	0.443	135	130
95	19	1.6	0.4	-	4 x 0.8	1.72	38.0	2400	2.4	38.5	1850	0.320	165	155
120	19	1.6	0.5	-	4 x 0.8	1.88	42.0	2800	2.4	41.5	2250	0.253	185	180
150	19	1.8	0.5	-	4 x 0.8	1.88	46.0	3350	2.6	46.0	2750	0.206	210	205
185	37	2.0	0.6	-	4 x 0.8	2.04	51.0	4000	2.6	50.5	3400	0.164	235	240
240	37	2.2	0.6	-	4 x 0.8	2.36	58.0	5050	3.0	58.0	4300	0.125	275	280
300	37	2.4	0.7	-	4 x 0.8	2.52	66.0	6200	3.4	64.0	5300	0.100	305	315
400	61	2.6	0.7	-	4 x 0.8	2.84	72.0	7850	3.6	72.0	6900	0.0778	335	375

1.1 KV FOUR CORE, COPPER CONDUCTOR, PVC INSULATED, INNER SHEATHED

1.1 KV FOUR CORE, COPPER CONDUCTOR, PVC INSULATED, INNER SHEATHED ARMoured & UNARMoured CABLES CONFORMING TO IS:1554 (PART I)														
Nominal Cross Sectional Area	Minimum Number of Wires	Nominal Thickness of Insulation	Nominal Thickness of Inner Sheath	Armoured - YWY & YFY					Unarmoured - YY			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	1.0	0.3	1.4	-	1.24	18.0	650	1.8	15.5	320	4.61	36	30
6	7	1.0	0.3	1.4	-	1.24	19.5	800	1.8	17.0	410	3.08	45	39
10	7	1.0	0.3	-	4 x 0.8	1.40	20.0	910	1.8	19.0	590	1.83	60	52
16	7	1.0	0.3	-	4 x 0.8	1.40	23.0	1150	2.0	21.5	860	1.15	77	66
25	7	1.2	0.3	-	4 x 0.8	1.40	24.0	1570	2.0	24.0	1220	0.727	99	90
35	7	1.2	0.3	-	4 x 0.8	1.40	27.0	2035	2.0	26.5	1670	0.524	120	110
50	7	1.4	0.4	-	4 x 0.8	1.56	31.0	2780	2.2	32.5	2340	0.387	145	135
70	19	1.4	0.4	-	4 x 0.8	1.56	35.0	3540	2.2	33.5	3140	0.268	175	165
95	19	1.6	0.4	-	4 x 0.8	1.72	38.0	4760	2.4	38.5	4210	0.193	210	200
120	19	1.6	0.5	-	4 x 0.8	1.88	42.0	5770	2.4	41.5	5220	0.153	240	230
150	19	1.8	0.5	-	4 x 0.8	1.88	46.0	7065	2.6	46.0	6470	0.124	270	265
185	37	2.0	0.6	-	4 x 0.8	2.04	51.0	8580	2.6	50.5	7980	0.0991	300	305
240	37	2.2	0.6	-	4 x 0.8	2.36	58.0	11000	3.0	58.0	10250	0.0754	345	355
300	37	2.4	0.7	-	4 x 0.8	2.52	66.0	13625	3.4	64.0	12730	0.0601	385	400

1.1 KV 1.5 SQMM COPPER CONDUCTOR, PVC INSULATED

1.1 KV 1.5 Sqmm COPPER CONDUCTOR, PVC INSULATED													
ARMOURED / UNARMOURED CONTROL CONFORMING TO IS : 1554 (PART I)													
Number of Cores	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - YWY & YFY					Unarmoured - YY			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	0.8	0.3	1.4	-	1.24	13.5	350	1.8	10.5	130	12.1	23	20
3	0.8	0.3	1.4	-	1.24	14.0	400	1.8	11.0	160	12.1	21	17
4	0.8	0.3	1.4	-	1.24	15.0	450	1.8	11.5	190	12.1	21	17
5	0.8	0.3	1.4	-	1.24	15.5	500	1.8	12.5	225	12.1	21	17
6	0.8	0.3	1.4	-	1.24	16.0	550	1.8	13.0	250	12.1	15	13
7	0.8	0.3	1.4	-	1.24	16.5	565	1.8	13.5	265	12.1	14	13
10	0.8	0.3	1.4	-	1.40	19.0	750	1.8	16.5	350	12.1	13	11
12	0.8	0.3	-	4x0.8	1.40	19.5	650	1.8	17.5	400	12.1	12	10
14	0.8	0.3	-	4x0.8	1.40	20.0	760	1.8	18.0	450	12.1	11	10
16	0.8	0.3	-	4x0.8	1.40	21.0	800	1.8	19.5	500	12.1	11	9
19	0.8	0.3	-	4x0.8	1.40	22.0	850	2.0	20.0	600	12.1	10	9
24	0.8	0.3	-	4x0.8	1.40	25.0	1050	2.0	23.0	725	12.1	9	8
27	0.8	0.3	-	4x0.8	1.40	25.5	1150	2.0	24.0	800	12.1	9	7
30	0.8	0.3	-	4x0.8	1.56	26.5	1200	2.0	24.5	860	12.1	9	7
37	0.8	0.3	-	4x0.8	1.56	28.0	1400	2.0	26.0	1050	12.1	8	7

1.1 KV 2.5 SQMM COPPER CONDUCTOR, PVC INSULATED

1.1 KV 2.5 Sqmm COPPER CONDUCTOR, PVC INSULATED													
ARMOURED / UNARMOURED CONTROL CONFORMING TO IS : 1554 (PART I)													
Number of Cores	Nominal Thickness of Insulation	Minimum Thickness of Inner Sheath	Armoured - YWY & YFY					Unarmoured - YY			Max. Dc 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	0.9	0.3	1.4	-	1.24	14.5	425	1.8	12.5	160	7.41	32	27
3	0.9	0.3	1.4	-	1.24	15.5	475	1.8	13.0	225	7.41	27	24
4	0.9	0.3	1.4	-	1.24	16.5	530	1.8	14.0	250	7.41	27	24
5	0.9	0.3	1.4	-	1.24	17.5	600	1.8	15.0	300	7.41	27	24
6	0.9	0.3	1.4	-	1.24	19.0	675	1.8	17.0	340	7.41	20	18
7	0.9	0.3	1.4	-	1.24	19.0	700	1.8	17.0	375	7.41	20	17
10	0.9	0.3	-	4x0.8	1.40	21.0	780	1.8	21.0	500	7.41	18	15
12	0.9	0.3	-	4x0.8	1.40	22.0	850	2.0	22.0	600	7.41	17	14
14	0.9	0.3	-	4x0.8	1.40	24.0	950	2.0	23.0	650	7.41	16	13
16	0.9	0.3	-	4x0.8	1.40	25.0	1050	2.0	24.0	750	7.41	15	13
19	0.9	0.3	-	4x0.8	1.40	26.0	1150	2.0	26.0	850	7.41	14	12
24	0.9	0.3	-	4x0.8	1.56	31.0	1400	2.0	29.0	1050	7.41	13	11
27	0.9	0.3	-	4x0.8	1.56	31.5	1600	2.0	30.0	1150	7.41	12	10
30	0.9	0.3	-	4x0.8	1.56	33.0	1700	2.2	32.0	1250	7.41	12	10
37	0.9	0.4	-	4x0.8	1.56	35.0	2000	2.2	34.0	1550	7.41	11	10

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