

Table 1

1.1. KV SINGLE CORE ALUMINIUM CONDUCTOR, PVC INSULATED HARD DRAWN ALUMINIUM ARMoured / UNARMoured CABLES CONFORMING TO IS: 1554 (Part-1)														
Nominal Area of Conductor	UNARMoured CABLES			ARMoured CABLES										
	Nominal Thickness of insulation	Minimum Thickness of diameter of cable	Approx. Weight of cable	Approx. thickness of insulation	Nominal thickness of Insulation	Nominal diameter Of amour Wire	Minimum Thickness of outer sheath	Approx. Weight of cable	Approx. Weight of cable	Nominal Diameter of amour strip	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	
Sp. mm	mm	mm	mm	Kg/Km	mm	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
6	1.0	1.8	9.0	100	1.3	1.4	1.24	12.0	180	-	-	-	-	-
10	1.0	1.8	10.0	120	1.3	1.4	1.24	13.0	200	-	-	-	-	-
16	1.0	1.8	11.0	160	1.3	1.4	1.24	14.0	250	-	-	-	-	-
25	1.2	1.8	13.0	210	1.5	1.4	1.24	15.0	300	-	-	-	-	-
35	1.2	1.8	14.0	250	1.5	1.4	1.24	16.0	350	-	-	-	-	-
50	1.4	1.8	16.0	300	1.7	1.4	1.24	18.0	450	-	-	-	-	-
70	1.4	1.8	17.0	400	1.7	1.4	1.4	20.0	550	-	-	-	-	-
95	1.6	1.8	19.0	500	1.9	1.6	1.4	22.0	700	0.80	1.4	21.0	650	
120	1.6	2.0	21.0	600	1.9	1.6	1.4	24.0	800	0.80	1.4	23.0	750	
150	1.8	2.0	23.0	750	2.1	1.6	1.4	26.0	950	0.80	1.4	24.0	900	
185	2.0	2.0	25.0	900	2.3	1.6	1.4	29.0	1100	0.80	1.4	27.0	1050	
240	2.2	2.0	28.0	1100	2.5	1.6	1.56	32.0	1400	0.80	1.4	30.0	1300	
300	2.4	2.0	30.0	1350	2.7	1.6	1.56	33.0	1650	0.80	1.56	32.0	1600	
400	2.6	2.2	35.0	1700	3.0	2.0	1.56	39.0	2100	0.80	1.56	37.0	1950	
500	3.0	2.2	38.0	2150	3.4	2.0	1.7	42.0	2700	0.80	1.56	40.0	2400	
630	3.4	2.4	43.0	2750	3.9	2.0	1.88	48.0	3300	0.80	1.72	45.0	3100	
800	3.4	2.4	48.0	3300	3.9	2.0	1.88	52.0	4000	0.80	1.88	49.0	3700	
1000	3.4	2.6	52.0	4100	3.9	2.5	2.04	59.0	4900	0.80	2.04	55.0	4600	

TABLE - 4

1.1. KV 3 CORE ALUMINIUM CONDUCTOR, PVC INSULATED ARMoured / UNARMoured ALUMINIUM CABLES CONFORMING TO IS: 1554 (Part-1)													
Nominal Area of Conductor	UNARMoured CABLES						ARMoured CABLES						
	Ayy			Single Layer Wire (AYWY)			Single Srtip Wire (AYFY)						
	Nominal thickness of Insulation Main/ Neutral	Minimum thickness of Inner sheath	Nominal thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour wire	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour strip	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable
Sp. mm	mm	mm	mm	Kg/Km	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
25	1.2/1.0	0.3	2.0	24.0	700	1.6	1.4	26.0	1300	0.8	1.40	24.0	1000
35	1.2/1.0	0.3	2.0	26.0	850	1.6	1.4	28.0	1450	0.8	1.40	26.0	1200
50	1.4/1.2	0.3	2.0	29.0	1050	1.6	1.56	31.0	1800	0.8	1.56	30.0	1500
70	1.4/1.2	0.4	2.2	32.0	1400	2.0	1.56	36.0	2400	0.8	1.56	34.0	1800
95	1.6/1.4	0.4	2.2	36.0	1800	2.0	1.72	39.0	3000	0.8	1.56	37.0	2300
120	1.6/1.4	0.5	2.4	40.0	2200	2.0	1.88	43.0	3500	0.8	1.72	41.0	2800
150	1.8/1.4	0.5	2.4	44.0	2600	2.0	1.88	47.0	4000	0.8	1.88	45.0	3200
185	2.0/1.6	0.5	2.6	48.0	3200	2.5	2.04	53.0	5200	0.8	2.04	49.0	3900
240	2.2/1.6	0.6	3.0	54.0	4100	2.5	2.36	58.0	6400	0.8	2.20	55.0	4800
300	2.4/1.8	0.6	3.2	62.0	5000	3.15	2.52	66.0	8200	0.8	2.36	61.0	5800
400	2.6/2.0	0.7	3.4	68.0	6300	3.15	2.68	75.0	9900	0.8	2.68	69.0	7300
500	3.0/2.2	0.7	3.8	77.0	8000	4.0	3.00	84.0	13500	0.8	2.84	77.0	9000
630	3.4/2.4	0.7	4.0	87.0	10000	4.0	3.00	92.0	1600	0.8	3.00	87.0	11500

TABLE - 6

**1.1. KV 1.5 Sp. mm. STANDARD CONDUCTOR, PVC INSULATED ARMoured / UNARMoured COPPER CONTROL CABLES CONFORMING TO IS: 1554 (Part-1)**

UNARMoured CABLES ARMoured CABLES													
YY				Single Layer ⚡ Wire (YWY)					Single Layer ⚡ Srtip (YFY)				
Number of Cores	Nominal thickness of Insulation	Minimum thickness of Inner sheath	Nominal thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour wire	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour strip	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable
	mm	mm.	mm.	Kg/Km	Mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
2	0.8	0.3	1.8	12	180	1.4	1.24	14	420	-	-	-	-
3	0.8	0.3	1.8	13	210	1.4	1.24	14.5	450	-	-	-	-
4	0.8	0.3	1.8	14	250	1.4	1.24	15	500	-	-	-	-
5	0.8	0.3	1.8	14	270	1.4	1.24	16	550	-	-	-	-
6	0.8	0.3	1.8	15	300	1.4	1.24	17	600	-	-	-	-
7	0.8	0.3	1.8	15	320	1.4	1.24	17	630	-	-	-	-
8	0.8	0.3	1.8	16	370	1.4	1.24	18	700	-	-	-	-
9	0.8	0.3	1.8	17	400	1.4	1.24	20	750	-	-	-	-
10	0.8	0.3	1.8	19	450	1.4	1.4	21	845	-	-	-	-
12	0.8	0.3	1.8	20	500	1.6	1.4	22	970	0.8	1.24	20	745
14	0.8	0.3	1.8	20	550	1.6	1.4	23	1050	0.8	1.40	21	820
16	0.8	0.3	1.8	21	600	1.6	1.4	24	1100	0.8	1.40	22	900
19	0.8	0.3	2.0	23	700	1.6	1.4	25	1250	0.8	1.40	23	1000
24	0.8	0.3	2.0	26	900	1.6	1.4	28	1500	0.8	1.40	27	1200
27	0.8	0.3	2.0	27	950	1.6	1.4	29	1600	0.8	1.40	27	1300
30	0.8	0.3	2.0	28	1050	1.6	1.4	30	1700	0.8	1.40	28	1400
37	0.8	0.3	2.0	29	1240	1.6	1.4	32	1950	0.8	1.40	30	1600
40	0.8	0.3	2.0	30	1300	1.6	1.56	33	2100	0.8	1.40	31	1750
44	0.8	0.3	2.0	33	1450	1.6	1.56	35	2300	0.8	1.56	34	1900
52	0.8	0.4	2.0	35	1700	2.0	1.56	38	2800	0.8	1.56	35	2150
61	0.8	0.4	2.2	37	1950	2.0	1.56	40	3100	0.8	1.56	37	2400

**TABLE -7**

**1.1. KV 2.5 Sp. mm. STANDARD CONDUCTOR, PVC INSULATED ARMoured / UNARMoured COPPER CONTROL CABLES CONFORMING TO IS: 1554 (Part-1)**

UNARMoured CABLES ARMoured CABLES													
YY				Single Layer ⚡ Wire (YWY)					Single Layer ⚡ Srtip (YFY)				
Number of Cores	Nominal thickness of Insulation	Minimum thickness of Inner sheath	Nominal thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour wire	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour strip	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable
	mm	mm.	mm.	Kg/Km	Mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
2	0.9	0.3	1.8	13	240	1.4	1.24	15	500	-	-	-	-
3	0.9	0.3	1.8	14	270	1.4	1.24	16	550	-	-	-	-
4	0.9	0.3	1.8	15	320	1.4	1.24	17	620	-	-	-	-
5	0.9	0.3	1.8	16	350	1.4	1.24	18	680	-	-	-	-
6	0.9	0.3	1.8	17	400	1.4	1.24	20	750	-	-	-	-
7	0.9	0.3	1.8	17	440	1.4	1.24	20	790	-	-	-	-
8	0.9	0.3	1.8	18	500	1.4	1.4	21	950	-	-	-	-
9	0.9	0.3	1.8	19	550	1.6	1.4	22	1050	0.8	1.40	21	840
10	0.9	0.3	1.8	21	600	1.6	1.4	24	1150	0.8	1.40	22	900
12	0.9	0.3	2.0	22	700	1.6	1.4	25	1250	0.8	1.40	23	1000
14	0.9	0.3	2.0	24	800	1.6	1.4	26	1350	0.8	1.40	24	1075
16	0.9	0.3	2.0	25	900	1.6	1.4	27	1450	0.8	1.40	25	1150

19	0.9	0.3	2.0	26	1000	1.6	1.4	28	1620	0.8	1.40	26	1330
24	0.9	0.3	2.0	30	1200	1.6	1.56	32	2000	0.8	1.56	30	1630
27	0.9	0.3	2.0	31	1350	1.6	1.56	33	2100	0.8	1.56	31	1750
30	0.9	0.3	2.0	32	1500	1.6	1.56	34	2250	0.8	1.56	32	1920
37	0.9	0.4	2.2	34	1800	2.0	1.56	37	2900	0.8	1.56	35	2225
40	0.9	0.4	2.2	36	1900	2.0	1.56	39	3100	0.8	1.56	36	2400
44	0.9	0.4	2.2	38	2100	2.0	1.56	41	3350	0.8	1.56	37	2600
52	0.9	0.4	2.2	40	2450	2.0	1.72	43	3700	0.8	1.56	41	2950
61	0.9	0.4	2.2	43	2800	2.0	1.72	46	4200	0.8	1.56	43	3350

**TABLE -10**

1.1. KV SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED HARD DRAWN ALUMINIUM ARMoured / UNARMoured CABLES CONFORMING TO IS: 7098 (Part-1)													
UNARMoured CABLES ARMoured CABLES													
A2XY				Single Layer Wire (A2XW <sub>a</sub> Y)				Single Layer Srtip (A2XF <sub>a</sub> Y)					
Nominal area of conductor	Nominal thickness of Insulation	Minimum thickness of Inner sheath	Nominal thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour wire	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour strip	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable
Sq. mm	mm	mm.	mm.	Kg/Km	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
6	0.7	1.8	8.2	80	1.0	1.4	1.24	10.5	130	-	-	-	-
10	0.7	1.8	9.2	100	1.0	1.4	1.24	11.5	160	-	-	-	-
16	0.7	1.8	10.5	130	1.0	1.4	1.24	13.0	200	-	-	-	-
25	0.9	1.8	12.0	180	1.2	1.4	1.24	14.0	300	-	-	-	-
35	0.9	1.8	13.0	230	1.2	1.4	1.24	15.0	350	-	-	-	-
50	1.0	1.8	15.0	300	1.3	1.4	1.24	17.0	420	-	-	-	-
70	1.1	1.8	16.0	370	1.4	1.4	1.24	19.0	520	-	-	-	-
95	1.1	1.8	18.0	460	1.4	1.6	1.4	22.0	650	0.80	1.4	21.0	600
120	1.2	1.8	20.0	550	1.5	1.6	1.4	24.0	750	0.80	1.4	23.0	700
150	1.4	2.0	22.0	620	1.7	1.6	1.4	25.0	850	0.80	1.4	24.0	800
185	1.6	2.0	24.0	820	1.9	1.6	1.4	28.0	1000	0.80	1.4	26.0	950
240	1.7	2.0	27.0	1000	2.0	1.6	1.4	30.0	1250	0.80	1.4	30.0	1200
300	1.8	2.0	30.0	1200	2.1	1.6	1.56	33.0	1500	0.80	1.56	32.0	1400
400	2.0	2.2	33.0	1550	2.4	2.0	1.56	38.0	1900	0.80	1.56	36.0	1750
500	2.2	2.2	36.0	1900	2.6	2.0	1.56	41.0	2350	0.80	1.56	39.0	2150
630	2.4	2.2	40.0	2400	2.8	2.0	1.72	46.0	2900	0.80	1.72	44.0	2700
800	2.6	2.4	47.0	3000	3.1	2.0	1.88	51.0	3600	0.80	1.72	48.0	3350
1000	2.8	2.6	51.0	3750	3.3	2.5	2.04	56.0	4600	0.80	1.88	54.0	4100

**TABLE -12**

1.1 KV THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED ARMoured / UNARMoured CABLES CONFORMING TO IS: 7098 (Part-1)													
UNARMoured CABLES ARMoured CABLES													
A2XY				Single Layer Wire (A2XW <sub>a</sub> Y)				Single Layer Srtip (A2XF <sub>a</sub> Y)					
Nominal area of conductor	Nominal thickness of Insulation	Minimum thickness of Inner sheath	Nominal thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour wire	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour strip	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable
Sq. mm	mm	mm.	mm.	Kg/Km	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
6	0.7	0.3	1.8	16.0	330	1.40	1.24	18.5	650	-	-	-	-
10	0.7	0.3	1.8	18.5	400	1.40	1.24	20.0	750	-	-	-	-
16	0.7	0.3	1.8	18.0	400	1.60	1.40	20.5	800	0.8	1.24	19.0	590

25	0.9	0.3	2.0	21.0	530	1.6	1.40	23.0	1000	0.8	1.40	21.0	800
35	0.9	0.3	2.0	22.0	640	1.6	1.40	25.0	1200	0.8	1.40	23.0	950
50	1.0	0.3	2.0	25.0	800	1.6	1.56	29.0	1450	0.8	1.40	26.0	1100
70	1.1	0.4	2.0	30.0	1100	2.0	1.56	32.0	2000	0.8	1.56	29.0	1450
95	1.1	0.4	2.2	32.0	1350	2.0	1.56	35.0	2350	0.8	1.56	32.0	1750
120	1.2	0.4	2.2	35.0	1650	2.0	1.72	39.0	2750	0.8	1.56	35.0	2100
150	1.4	0.5	2.4	39.0	2050	2.0	1.88	43.0	3250	0.8	1.72	40.0	2500
185	1.6	0.5	2.6	43.0	2500	2.5	2.04	48.0	4200	0.8	1.88	44.0	3000
240	1.7	0.6	2.8	49.0	3150	2.5	2.20	53.0	5100	0.8	2.04	50.0	3750
300	1.8	0.6	3.0	53.0	3850	2.5	2.36	58.0	6000	0.8	2.20	54.0	4500
400	2.0	0.7	3.2	59.0	4850	3.15	2.68	65.0	7950	0.8	2.52	60.0	5650
500	2.2	0.7	3.6	66.0	6100	3.15	2.84	72.0	9500	0.8	2.68	66.0	6900
630	2.4	0.7	3.8	73.0	7650	4.0	3.00	81.0	12600	0.8	2.84	74.0	8550

**TABLE -13**

1.1 KV 3 CORE ALUMINIUM CONDUCTOR, XLPE INSULATED ARMoured / UNARMoured CABLES CONFORMING TO IS: 7098 (Part-1)													
UNARMoured CABLES							ARMoured CABLES						
Ayy				Single Layer Wire (AYWY)				Single Layer Srtip (AYFY)					
Nominal area of conductor	Nominal thickness of Insulation Main/Neutral	Minimum thickness of Inner sheath	Nominal thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour wire	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal diameter of armour strip	Minimum thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable
Sq. mm	mm	mm.	mm.	Kg/Km	mm	mm	Mm	Mm	Kg/Km	mm	mm	Mm	Kg/Km
25	0.9/0.7	0.3	2.0	22.0	610	1.6	1.40	25.0	1100	0.8	1.40	23.0	900
35	0.9/0.7	0.3	2.0	24.0	730	1.6	1.40	27.0	1300	0.8	1.40	25.0	1050
50	1.0/0.9	0.3	2.0	27.0	920	1.6	1.56	30.0	1600	0.8	1.40	28.0	1250
70	1.1/0.9	0.4	2.2	31.0	1250	2.0	1.56	35.0	2200	0.8	1.56	32.0	1650
95	1.1/1.0	0.4	2.2	34.0	1550	2.0	1.56	38.0	2650	0.8	1.56	35.0	2000
120	1.2/1.1	0.4	2.2	38.0	1900	2.0	1.72	42.0	3150	0.8	1.72	39.0	2450
150	1.4/1.1	0.5	2.4	43.0	2300	2.0	1.88	46.0	3650	0.8	1.72	43.0	2850
185	1.6/1.1	0.5	2.6	46.0	2850	2.5	2.04	51.0	4750	0.8	1.88	48.0	3450
240	1.7/1.2	0.6	2.8	52.0	3600	2.5	2.20	56.0	5750	0.8	2.04	53.0	4300
300	1.8/1.4	0.6	3.0	57.0	4400	2.5	2.36	60.0	6750	0.8	2.20	57.0	5100
400	2.0/1.6	0.7	3.4	65.0	5600	3.15	2.68	71.0	9000	0.8	2.52	66.0	6450
500	2.2/1.7	0.7	3.6	73.0	7000	3.15	2.84	79.0	11000	0.8	2.68	74.0	7950
630	2.4/1.8	0.7	4.0	82.0	8900	4.0	3.00	88.0	14500	0.8	3.00	82.0	9900