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1.9/3.3 KV & 3.3/3.3 KV SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, HARD
DRAWN ALUMINIUM ARMoured/UNARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of conductor	UNARMoured (A2XY)				ARMoured (A2XWαY)				
	Nominal thickness of insulation	Nominal thickness of outer sheath	Approx. overall diameter of cable	Approx. weight of cable	Nominal Thickness of Insulation	Nominal diameter of armour Wire	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
25	2.20	1.80	16	250	2.50	1.40	1.24	18	350
35	2.20	1.80	17	300	2.50	1.40	1.24	19	400
50	2.20	1.80	18	350	2.50	1.40	1.40	21	500
70	2.20	1.80	20	450	2.50	1.60	1.40	23	650
95	2.20	2.00	22	550	2.50	1.60	1.40	25	750
120	2.20	2.00	23	650	2.50	1.60	1.40	26	850
150	2.20	2.00	25	750	2.50	1.60	1.40	28	950
185	2.20	2.00	26	850	2.50	1.60	1.40	29	1100
240	2.20	2.00	29	1050	2.50	1.60	1.56	32	1350
300	2.20	2.00	31	1250	2.50	1.60	1.56	34	1550
400	2.20	2.20	35	1550	2.80	2.00	1.56	39	2000
500	2.40	2.20	38	1950	2.80	2.00	1.56	42	2400
630	2.60	2.20	42	2400	3.00	2.00	1.72	47	3000
800	2.80	2.40	47	3050	3.30	2.00	1.88	52	3650
1000	3.00	2.60	52	3750	3.50	2.50	2.04	56	4500

Constructional detail:

Stranded compacted circular Al. cond./XLPE insulation/unarmoured or armoured with Al. round wires/PVC outer sheathed (unscreened) to IS:7098 (Part-2.)

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1.9/3.3 KV & 3.3/3.3 KV THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED,
ARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of conductor	Nominal thickness of Insulation	Minimum thickness of Inner sheath	FLAT STRIP ARMoured (A2XFY)				ROUND WIRE ARMoured (A2XWY)			
			Nominal thickness of armour strip	Minimum 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
Sq. mm.	mm	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
25	2.2	0.3	0.8	1.40	28	1100	1.60	1.56	30	1450
35	2.2	0.3	0.8	1.56	31	1300	1.60	1.56	33	1600
50	2.2	0.4	0.8	1.56	33	1500	2.00	1.56	35	2100
70	2.2	0.4	0.8	1.56	36	1800	2.00	1.56	38	2400
95	2.2	0.4	0.8	1.72	39	2150	2.00	1.72	42	2850
120	2.2	0.5	0.8	1.72	42	2500	2.00	1.88	45	3300
150	2.2	0.5	0.8	1.88	44	2850	2.50	2.04	48	4100
185	2.2	0.5	0.8	2.04	48	3350	2.50	2.04	51	4650
240	2.2	0.6	0.8	2.20	52	4100	2.50	2.20	56	5450
300	2.2	0.6	0.8	2.20	56	4750	2.50	2.36	60	6300
400	2.2	0.7	0.8	2.36	62	5750	3.15	2.68	67	8350

Constructional detail:

Stranded compacted shaped Al. cond./XLPE insulation/PVC Inner sheathed/ armoured with galvanized steel strips or round wires/ PVC outer sheathed (unscreened) to IS:7098 (Part-2).

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3.8/6.6 KV SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, HARD DRAWN
ALUMINIUM ARMoured/ UNARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of conductor	Nominal thickness of insulation	UNARMoured (A2XY)			ARMoured (A2XWαY)			
		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
Sq. mm.	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
25	2.8	1.80	20	400	1.60	1.40	23	600
35	2.8	2.00	21	450	1.60	1.40	24	650
50	2.8	2.00	22	550	1.60	1.40	25	700
70	2.8	2.00	24	650	1.60	1.40	27	800
95	2.8	2.00	26	750	1.60	1.40	28	950
120	2.8	2.00	27	850	1.60	1.40	30	1050
150	2.8	2.00	29	950	1.60	1.56	32	1200
185	2.8	2.00	31	1150	1.60	1.56	34	1400
240	2.8	2.20	34	1400	2.00	1.56	37	1700
300	3.0	2.20	36	1600	2.00	1.56	39	2000
400	3.3	2.20	40	1950	2.00	1.72	44	2450
500	3.5	2.40	44	2400	2.00	1.72	47	2800
630	3.5	2.40	48	2900	2.00	1.88	51	3400
800	3.5	2.60	52	3550	2.50	2.04	57	4300
1000	3.6	2.80	57	4350	2.50	2.20	61	5100

Constructional detail:

Stranded compacted circular Al. cond./cond. screening with semiconducting comp./XLPE insulation/Insulation screening with semicond. comp. & copper tape (for unarmoured cable)/PVC outer sheathed to IS: 7098 (Part-2).

* For single core armoured cables, Al. round wire armouring shall be applied over core, which shall constitute the metallic part of screening.

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3.8/6.6 KV THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED,
ARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of conductor	Nominal Thickness of Insulation	Minimum thickness of Inner sheath	FLAT STRIP ARMoured (A2XFY)				ROUND WIRE ARMoured (A2XWY)			
			Nominal thickness of armour strip	Minimum 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
Sq. mm.	mm	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
25	2.8	0.4	0.8	1.56	40	2050	2.00	1.72	43	2950
35	2.8	0.4	0.8	1.72	44	2350	2.00	1.72	46	3200
50	2.8	0.5	0.8	1.72	47	2650	2.00	1.88	49	3500
70	2.8	0.5	0.8	1.88	51	3150	2.00	1.88	52	4000
95	2.8	0.5	0.8	1.88	55	3650	2.50	2.04	58	5100
120	2.8	0.6	0.8	2.04	59	4150	2.50	2.20	61	5700
150	2.8	0.6	0.8	2.20	62	4700	2.50	2.20	65	6300
185	2.8	0.6	0.8	2.20	67	5450	2.50	2.36	70	7200
240	2.8	0.7	0.8	2.36	73	6500	3.15	2.52	77	9300
300	3.0	0.7	0.8	2.52	77	7500	3.15	2.68	81	10500
400	3.3	0.7	0.8	2.84	85	9200	4.00	3.00	91	13900

Constructional detail:

Stranded compacted circular Al. cond./cond. screening with semiconducting comp./XLPE insulation / Insulation screening with semicond. comp. & copper tape /cores shall be laid up together with fillers/PVC inner sheathed / armoured with galvanized steel strips/round wires/PVC outer sheathed to IS: 7098 (Part-2).

TABLE - 17

6.6/6.6 KV & 6.35/ 11 KV SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, HARD DRAWN
ALUMINIUM ARMoured/UNARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of conductor	Nominal thickness of insulation	UNARMoured (A2XY)			ARMoured (A2XWαY)			
		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
Sq. mm.	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
25	3.6	2.0	22	450	1.60	1.40	24	650
35	3.6	2.0	23	550	1.60	1.40	25	700
50	3.6	2.0	24	600	1.60	1.40	26	800
70	3.6	2.0	26	700	1.60	1.40	28	900
95	3.6	2.0	28	800	1.60	1.40	30	1050
120	3.6	2.0	29	900	1.60	1.56	32	1200
150	3.6	2.0	31	1050	1.60	1.56	33	1300
185	3.6	2.2	33	1250	2.00	1.56	36	1600
240	3.6	2.2	36	1450	2.00	1.56	39	1850
300	3.6	2.2	37	1700	2.00	1.56	41	2050
400	3.6	2.2	41	2000	2.00	1.72	44	2500
500	3.6	2.4	44	2450	2.00	1.72	47	2900
630	3.6	2.4	47	2950	2.00	1.88	51	3450
800	3.6	2.6	53	3600	2.50	2.04	57	4300
1000	3.6	2.8	57	4350	2.50	2.20	61	5100

Constructional detail:

Stranded compacted Circular Al. cond./cond. screening with semiconducting comp./XLPE insulation/ Insulation screening with semicond. comp. & copper tape (for unarmoured cables)/PVC outer sheathed to IS: 7098 (Part-2).

TABLE - 18

6.6/6.6 KV & 6.35 / 11 KV THREE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED,
ARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of conductor	Nominal Thickness of Insulation	Minimum thickness of Inner sheath	FLAT STRIP ARMoured (A2XFY)				ROUND WIRE ARMoured (A2XWY)			
			Nominal thickness of armour strip	Minimum 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
Sq. mm.	mm	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
25	3.6	0.4	0.8	1.72	44	2400	2.00	1.72	47	3200
35	3.6	0.5	0.8	1.72	47	2700	2.00	1.88	50	3550
50	3.6	0.5	0.8	1.88	50	3000	2.50	2.04	54	4400
70	3.6	0.5	0.8	1.88	53	3450	2.50	2.04	57	5000
95	3.6	0.6	0.8	2.04	58	4100	2.50	2.20	62	5700
120	3.6	0.6	0.8	2.20	61	4600	2.50	2.20	65	6250
150	3.6	0.6	0.8	2.20	65	5100	2.50	2.36	69	6900
185	3.6	0.7	0.8	2.36	70	6000	3.15	2.52	75	8750
240	3.6	0.7	0.8	2.52	76	7000	3.15	2.68	82	10000
300	3.6	0.7	0.8	2.68	80	7950	3.15	2.84	86	11100
400	3.6	0.7	0.8	2.84	88	9500	4.00	3.00	96	14100

Constructional detail:

Stranded compacted circular Al. cond./cond. screening with semiconducting comp./XLPE insulation/Insulation screening with semicond. comp. & copper tape/cores shall be laid up together with fillers/PVC inner sheathed / armouring with galvanized steel strips or round wires/PVC outer sheathed to IS: 7098 (Part-2).



TABLE - 19
11/11 KV SINGLE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured/
UNARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of conductor	Nominal Thickness of Insulation	Minimum thickness of Inner sheath	UNARMoured (A2XY)			ROUND WIRE ARMoured (A2XWαY)			
			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
Sq. mm.	mm	mm	mm	mm	Kg/km	mm	mm	mm	Kg/Km
25	5.5	0.3	2.0	26	550	1.6	1.40	30	810
35	5.5	0.3	2.0	27	600	1.6	1.40	31	870
50	5.5	0.3	2.0	28	670	1.6	1.56	32	980
70	5.5	0.3	2.0	30	770	1.6	1.56	34	1100
95	5.5	0.3	2.0	31	880	2.0	1.56	36	1300
120	5.5	0.4	2.2	33	1020	2.0	1.56	38	1460
150	5.5	0.4	2.2	35	1130	2.0	1.56	40	1580
185	5.5	0.4	2.2	37	1270	2.0	1.56	41	1750
240	5.5	0.4	2.2	39	1470	2.0	1.72	44	2010
300	5.5	0.4	2.2	41	1680	2.0	1.72	46	2250
400	5.5	0.5	2.4	45	2030	2.0	1.88	50	2670
500	5.5	0.5	2.4	47	2380	2.5	2.04	54	3250
630	5.5	0.5	2.6	52	2890	2.5	2.04	58	3790
800	5.5	0.6	2.8	56	3500	2.5	2.20	63	4500
1000	5.5	0.6	2.8	60	4180	2.5	2.36	67	5300

Constructional detail:

Stranded compacted Circular Al. cond./cond. screening with semiconducting comp./XLPE insulation/Insulation screening with semicond. comp. & copper tape (for unarmoured cables)/PVC outer sheathed to IS: 7098 (Part-2).

TABLE - 20
11/11 KV THREE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED,
ARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of Conductor	Nominal Thickness of Insulation	Minimum thickness of Inner sheath	FLAT STRIP ARMoured (A2XFY)				ROUND WIRE ARMoured (A2XWY)			
			Nominal thickness of armour strip	Minimum 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
Sq. mm.	mm	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
25	5.5	0.5	0.8	1.88	52	3000	2.50	2.04	56	4300
35	5.5	0.5	0.8	2.04	55	3300	2.50	2.20	59	4600
50	5.5	0.6	0.8	2.20	58	3700	2.50	2.20	62	5100
70	5.5	0.6	0.8	2.20	62	4200	2.50	2.36	65	5700
95	5.5	0.6	0.8	2.36	66	4700	3.15	2.52	71	7000
120	5.5	0.7	0.8	2.36	69	5300	3.15	2.52	74	7700
150	5.5	0.7	0.8	2.52	73	5750	3.15	2.68	78	8400
185	5.5	0.7	0.8	2.68	77	6500	3.15	2.84	82	9200
240	5.5	0.7	0.8	2.84	82	7400	3.15	3.00	87	10400
300	5.5	0.7	0.8	3.00	87	8400	4.00	3.00	94	12600
400	5.5	0.7	0.8	3.00	94	9750	4.00	3.00	100	14350

Constructional detail:

Stranded compacted circular Al. cond./cond. screening with semiconducting comp./XLPE insulation/Insulation screening with semicond. comp. & copper tape/cores shall be laid up together with fillers/PVC inner sheathed / armouring with galvanized steel strips or round wires/PVC outer sheathed to IS: 7098 (Part-2).

TABLE - 21
12.7/22 KV SINGLE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured/
UNARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of Conductor	Nominal Thickness of Insulation	Minimum thickness of Inner sheath	UNARMoured (A2XY)			ROUND WIRES ARMoured (A2XW _a Y)			
			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
Sq. mm.	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
50	6.0	0.3	2.0	29	710	1.6	1.56	33	1030
70	6.0	0.3	2.0	31	810	1.6	1.56	35	1150
95	6.0	0.4	2.2	33	950	2.0	1.56	38	1400
120	6.0	0.4	2.2	34	1060	2.0	1.56	39	1500
150	6.0	0.4	2.2	36	1170	2.0	1.56	41	1630
185	6.0	0.4	2.2	37	1320	2.0	1.72	43	1850
240	6.0	0.4	2.2	40	1530	2.0	1.72	45	2100
300	6.0	0.4	2.2	42	1750	2.0	1.72	47	2330
400	6.0	0.5	2.4	46	2100	2.0	1.88	51	2760
500	6.0	0.5	2.6	49	2500	2.5	2.04	55	3350
630	6.0	0.5	2.6	52	2950	2.5	2.04	59	3880
800	6.0	0.6	2.8	57	3580	2.5	2.20	64	4610
1000	6.0	0.6	3.0	62	4310	2.5	2.36	68	5410

Constructional detail:

Stranded compacted Circular Al. cond./cond. screening with semiconducting comp./XLPE insulated/ Insulation screening with semicond. comp. & copper tape (for unarmoured cables)/PVC outer sheathed to IS: 7098 (Part-2).

TABLE - 22
12.7/22 KV THREE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured CABLES
CONFORMING TO IS:7098 (PART-2)

Nominal Area of Conductor	Nominal Thickness of Insulation	Minimum thickness of Inner sheath	FLAT STRIP ARMoured (A2XFY)				ROUND WIRE ARMoured (A2XWY)			
			Nominal thickness of Armour strip	Minimum 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
Sq. mm.	mm	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
50	6.0	6.0	0.8	2.20	60	3940	2.50	2.36	64	5470
70	6.0	6.0	0.8	2.36	64	4440	2.50	2.36	68	6020
95	6.0	0.7	0.8	2.36	68	5030	3.15	2.52	73	7410
120	6.0	0.7	0.8	2.52	72	5510	3.15	2.68	77	8080
150	6.0	0.7	0.8	2.68	75	6120	3.15	2.68	80	8760
185	6.0	0.7	0.8	2.68	79	6800	3.15	2.84	84	9610
240	6.0	0.7	0.8	2.84	84	7770	4.00	2.84	91	11890
300	6.0	0.7	0.8	3.00	89	8770	4.00	3.00	96	13090
400	6.0	0.7	0.8	3.00	96	10130	4.00	3.00	103	14820

Constructional detail:

Stranded compacted circular Al. cond./cond. screening with semiconducting comp./XLPE insulation/Insulation screening with semicond. comp. & copper tape/cores shall be laid up together with fillers/PVC inner sheathed / armouring with galvanized steel strips or round wires/PVC outer sheathed to IS: 7098 (Part-2).

TABLE - 23

19/33 KV SINGLE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured/
UNARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of Conductor	Nominal Thickness of Insulation	Minimum thickness of Inner sheath	UNARMoured (A2XY)			ROUND WIRE ARMoured (A2XWαY)			
			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
Sq. mm.	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
50	8.8	0.4	2.2	35	1000	2.0	1.56	40	1460
70	8.8	0.4	2.2	37	1120	2.0	1.56	42	1600
95	8.8	0.4	2.2	39	1250	2.0	1.72	44	1780
120	8.8	0.4	2.2	40	1370	2.0	1.72	45	1930
150	8.8	0.4	2.2	42	1500	2.0	1.72	47	2080
185	8.8	0.5	2.4	44	1690	2.0	1.88	49	2320
240	8.8	0.5	2.4	46	1910	2.0	1.88	51	2580
300	8.8	0.5	2.6	49	2180	2.5	2.04	55	3020
400	8.8	0.5	2.6	52	2520	2.5	2.04	58	3420
500	8.8	0.6	2.8	55	2950	2.5	2.20	62	3940
630	8.8	0.6	2.8	59	3450	2.5	2.36	66	4550
800	8.8	0.6	3.0	64	4110	2.5	2.36	70	5250
1000	8.8	0.7	3.2	68	4890	3.15	2.52	76	6360

Constructional detail:

Stranded compacted Circular Al. cond./cond. screening with semiconducting comp./XLPE insulation/ Insulation screening with semicond. comp. & copper tape (for unarmoured cables)/PVC outer sheathed to IS: 7098 (Part-2).

TABLE - 24

19/33 KV THREE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED,
ARMoured CABLES CONFORMING TO IS:7098 (PART-2)

Nominal Area of Conductor	Nominal Thickness of Insulation	Minimum thickness of Inner sheath	FLAT STRIP ARMoured (A2XFY)				ROUND WIRE ARMoured (A2XWY)			
			Nominal thickness of Armour strip	Minimum 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
Sq. mm.	mm	mm	mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km
50	8.8	0.7	0.8	2.52	74	5520	2.50	2.68	79	8200
70	8.8	0.7	0.8	2.68	78	6100	2.50	2.84	83	8900
95	8.8	0.7	0.8	2.84	82	6700	2.50	3.00	87	9600
120	8.8	0.7	0.8	2.84	85	7300	2.50	3.00	92	11500
150	8.8	0.7	0.8	3.00	89	8000	2.50	3.00	95	12260
185	8.8	0.7	0.8	3.00	92	8750	3.15	3.00	99	13230
240	8.8	0.7	0.8	3.00	97	9750	3.15	3.00	103	14500
300	8.8	0.7	0.8	3.00	102	10750	3.15	3.00	108	15720
400	8.8	0.7	0.8	3.00	109	12170	4.00	3.00	115	17560

Constructional detail:

Stranded compacted circular Al. cond./cond. screening with semiconducting comp./XLPE insulation/Insulation screening with semicond. comp. & copper tape/cores shall be laid up together with fillers/PVC inner sheathed / armouring with galvanized steel strips or round wires/PVC outer sheathed to IS: 7098 (Part-2).

TABLE - 25

SOLID/STRANDED CONDUCTOR FOR INSULATED CABLES CONFORMING TO IS:8130

Nominal Cross- sectional area of conductor	SOLID CONDUCTOR CLASS-I		STRANDED CONDUCTOR CLASS - 2					
	Maximum Resistance of Conductor at 20°C		Minimum number of wires in Conductor				Maximum Resistance of Conductor at 20°C	
	Plain Copper	Aluminium	Circular Conductor (non-Compact)		Circular compact or Shaped Conductor		Plain copper	Aluminium
	Sq. mm.	Ohm/ km	Ohm/ Km	Copper	Aluminium	Copper	Aluminium	Ohm/ Km
1.5	12.1	18.1	3	3	-	-	12.1	18.1
2.5	7.41	12.1	3	3	-	-	7.41	12.1
4	4.61	7.41	7	3	-	-	4.61	7.41
6	3.08	4.61	7	3	-	-	3.08	4.61
10	1.83	3.08	7	7	6	-	1.83	3.08
16	1.15	1.91	7	7	6	6	1.15	1.91
25	-	-	7	7	6	6	0.727	1.20
35	-	-	7	7	6	6	0.524	0.868
50	-	-	19	19	6	6	0.387	0.641
70	-	-	19	19	12	12	0.268	0.443
95	-	-	19	19	15	15	0.193	0.320
120	-	-	37	37	18	15	0.153	0.253
150	-	-	37	37	18	15	0.124	0.206
185	-	-	37	37	30	30	0.0991	0.164
240	-	-	61	37	34	30	0.0754	0.125
300	-	-	61	61	34	30	0.0601	0.100
400	-	-	61	61	53	53	0.0470	0.0778
500	-	-	61	61	53	53	0.0366	0.0605
630	-	-	91	91	53	53	0.0283	0.0469
800	-	-	91	91	53	53	0.0221	0.0367
1000	-	-	91	91	53	53	0.0176	0.0291

TABLE - 26

CALCULATED VALUE OF A.C. RESISTANCE OF ALUMINIUM CONDUCTOR AT MAXIMUM OPERATING TEMPERATURES IN Ohms / Km.

Nominal Cross-Sectional Area of Conductor(Sq.mm.)	70°C	85°C	90°C	Nominal Cross-Sectional Area of Conductor (Sq.mm.)	70°C	85°C	90°C
1.5	21.72	22.81	-	95	0.384	0.404	0.410
2.5	14.52	15.25	-	120	0.302	0.319	0.325
4	8.89	9.34	-	150	0.248	0.261	0.265
6	5.53	5.81	-	185	0.198	0.208	0.211
10	3.70	3.98	-	240	0.152	0.159	0.162
16	2.29	2.41	-	300	0.122	0.128	0.130
25	1.44	1.51	1.54	400	0.0961	0.1005	0.1023
35	1.04	1.09	1.11	500	0.0760	0.0794	0.0808
50	0.769	0.808	0.820	630	0.0610	0.0636	0.0648
70	0.532	0.558	0.567	800	0.0500	0.0521	0.0530
				1000	0.0422	0.0438	0.0444