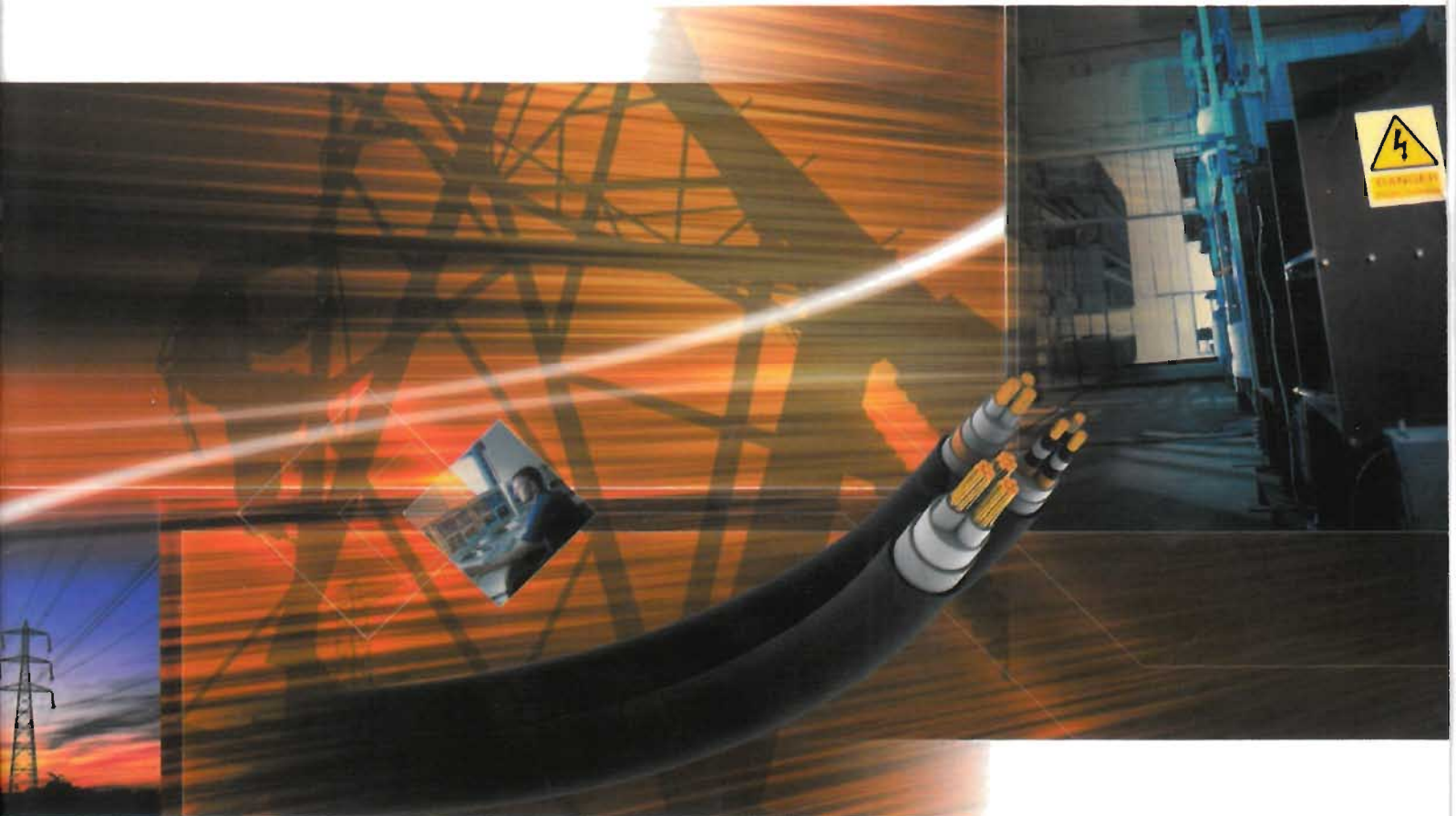


Total Solution to Power Cable



ELECTRIC POWER CABLE

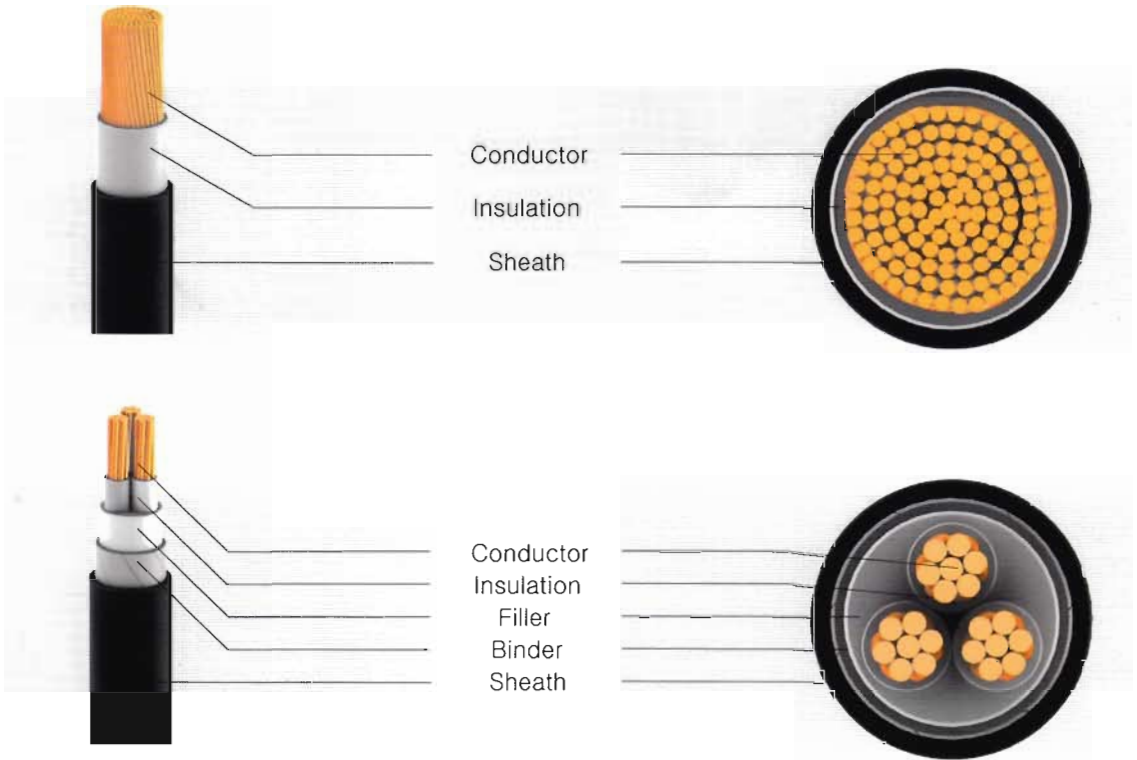


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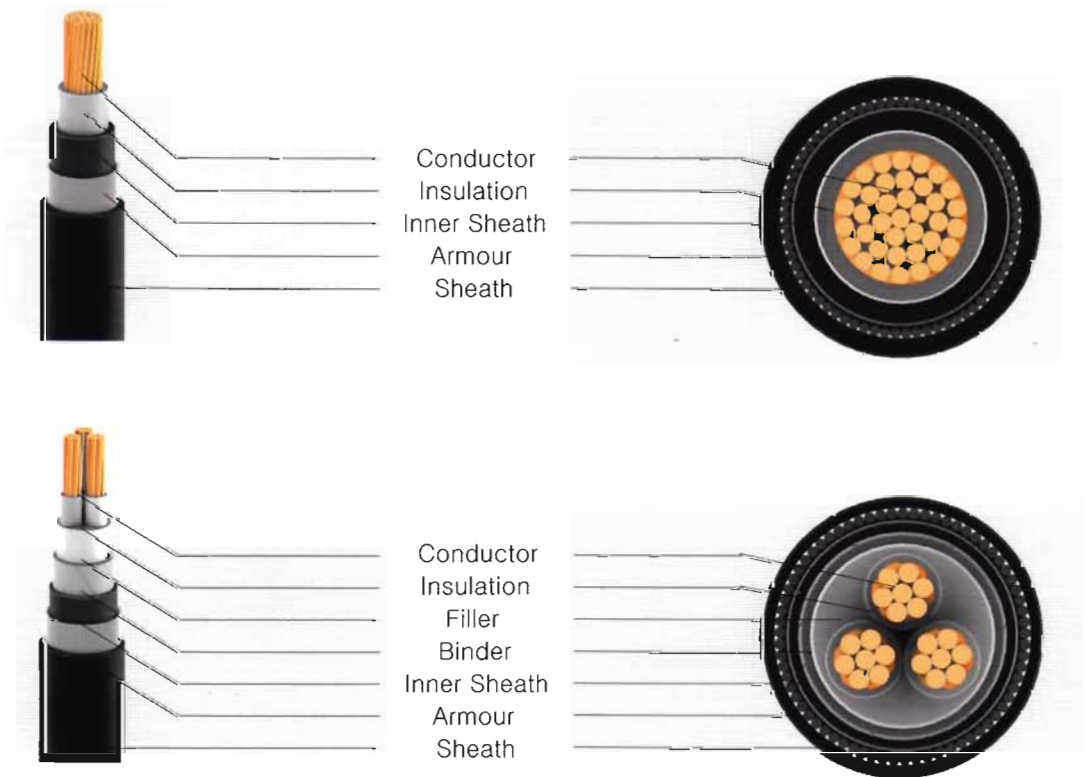
0.6/1KV CU/XLPE/PVC,
0.6/1KV AL/XLPE/PVC

Application standard : IEC 60502-1



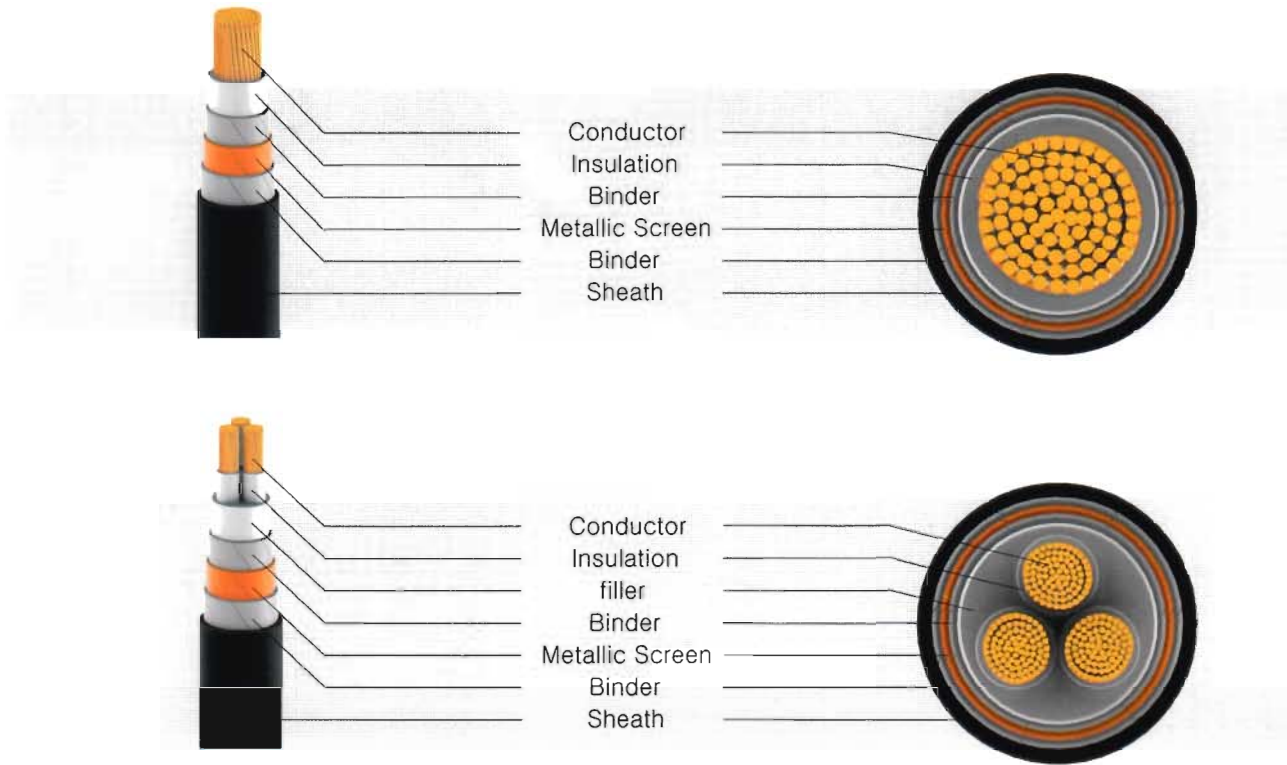
0.6/1kV CU/XLPE/PVC/S(A)WA/PVC,
0.6/1kV AL/XLPE/PVC/S(A)WA/PVC

Application standard : IEC 60502-1



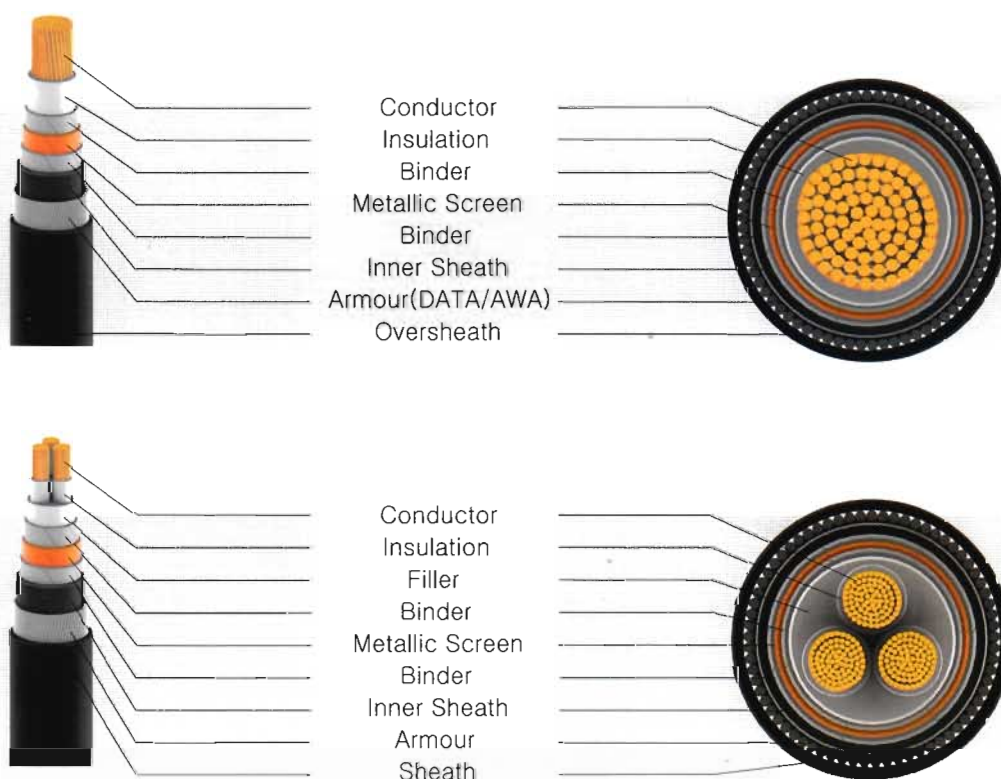
1.8/3KV CU/XLPE/PVC,
1.8/3KV AL/XLPE/PVC

Application standard : IEC 60502-1



1.8/3kv CU/XLPE/PVC/S(A)WA/PVC,
1.3/3kv AL/XLPE/PVC/S(A)WA/PVC

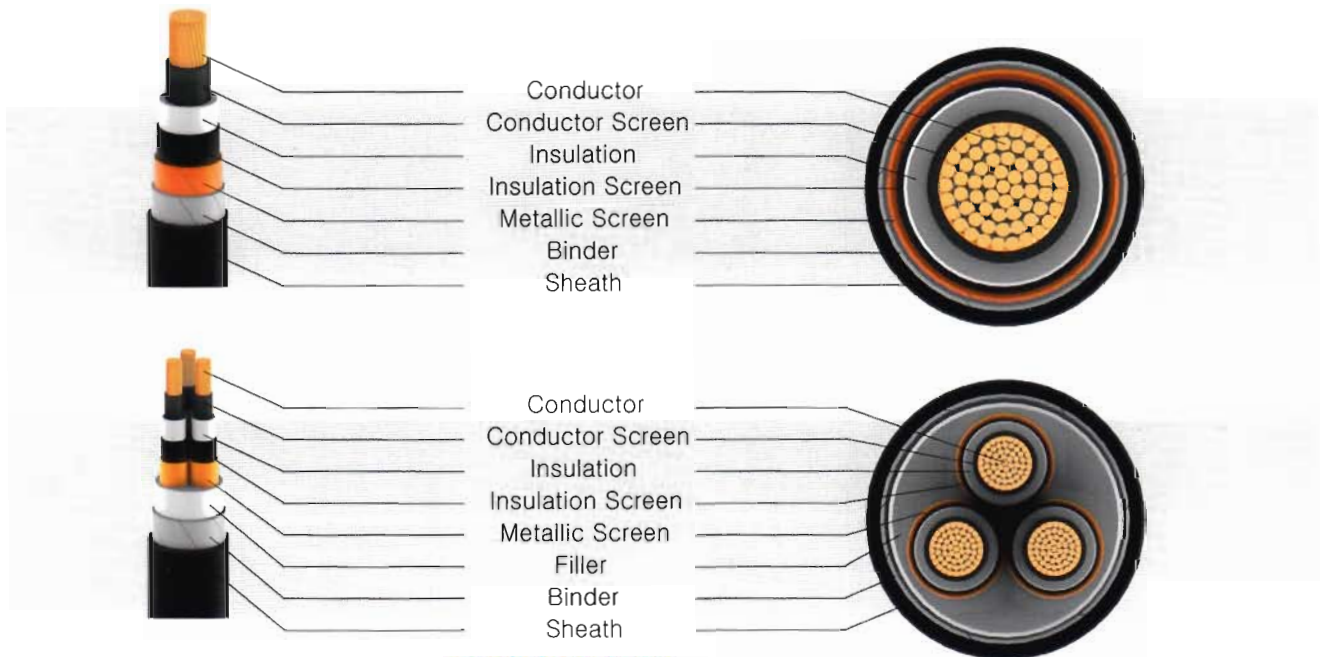
Application standard : IEC 60502-1



3.6/6kV~18/30kV CU/XLPE/PVC,
 3.6/6kV~18/30kV AL/XLPE/PVC
 3.8/6.6kV~19/33kV CU/XLPE/PVC,
 3.8/6.6kV~19/33kV AL/XLPE/PVC

Application standard : IEC 60502-2

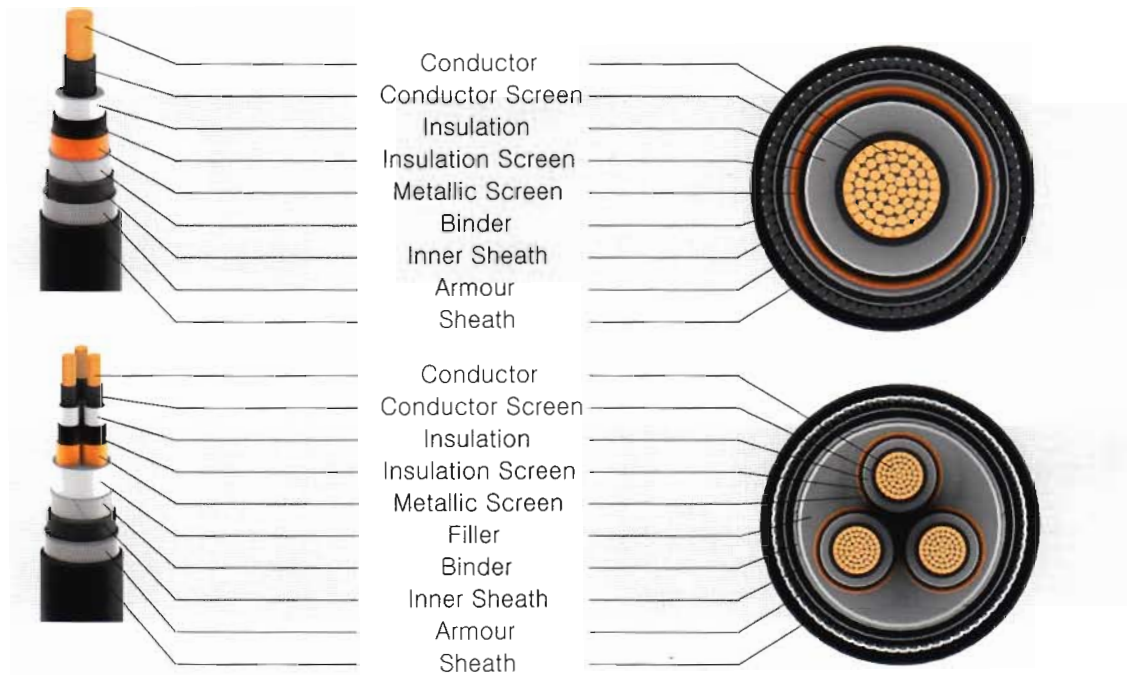
Application standard : BS 6622



3.6/6kV~18/30kV CU/XLPE/PVC/S(A)WA/PVC,
 3.6/6kV~18/30kV AL/XLPE/PVC/S(A)WA/PVC
 3.8/6.6kV~19/33kV CU/XLPE/PVC/S(A)WA/PVC,
 3.8/6.6kV~19/33kV AL/XLPE/PVC/S(A)WA/PVC

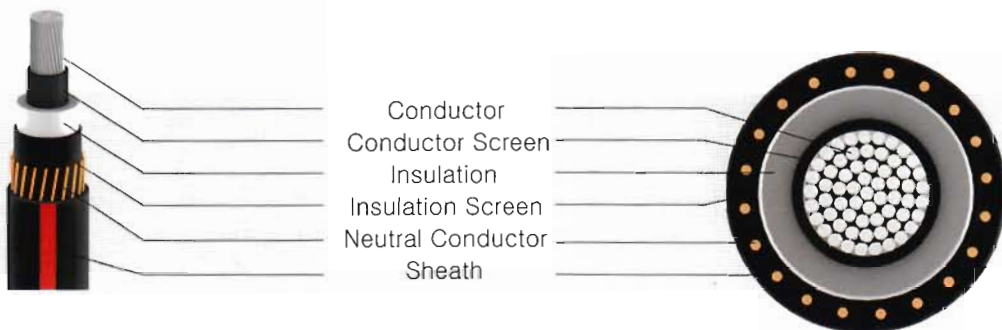
Application standard : IEC 60502-2

Application standard : BS 6622



15kV~35kV URD TR XLPE or EPR

Application standard : ICEA S-94-649



Conductor Construction and D.C. Conductor Resistance

Nominal Cross-Sectional Area mm ²	Conductor		Approx. Diameter mm	Maximum Resistance of Conductor Ω/km	
	Minimum Number of Wire in the Conductor (No.)			Copper	Aluminum
	Copper	Aluminum			
1.5	7	-	1.59	12.1	-
2.5	7	-	2.01	7.41	-
4	7	7	2.55	4.61	7.41
6	7	7	3.12	3.08	4.61
10	7	7	4.05	1.83	3.08
16	6	6	4.7	1.15	1.91
25	6	6	5.9	0.727	1.20
35	6	6	6.9	0.524	0.868
50	6	6	8.1	0.387	0.641
70	12	12	9.8	0.268	0.443
95	15	15	11.4	0.193	0.320
120	18	15	12.9	0.153	0.253
150	18	15	14.4	0.124	0.206
185	30	30	15.9	0.0991	0.164
240	34	30	18.3	0.0754	0.125
300	34	30	20.5	0.0601	0.100
400	53	53	23.2	0.0470	0.0778
500	53	53	26.4	0.0366	0.0605
630	53	53	30.2	0.0283	0.0469

- 10mm² and less : Solid or circular non compacted
- 16mm² ~ 630mm² : Circular Compacted

Test Voltage of XLPE Insulation

Rated Voltage (U ₀ /U) (KV)	0.6/1	1.8/3 (1.9/3.3)	3.6/6 (3.8/6.6)	6/10 (6.35/11)	8.7/15	12/20 (12.7/22)	18/30 (19/33)
Test Voltage r.m.s (KV)	3.5	6.5	12.5	21	30.5	42	63

0.6/1KV CU/XLPE/PVC, AL/XLPE/PVC 0.6/1KV CV, AL-CV

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm ²	Thickness of Sheath mm ²		Approx. Overall Diameter mm ²		Approx. Weight kg/km			
		mm ²		mm ²		1C		2C	
		1C	2C	1C	2C				
1.5	0.7	1.4	1.8	6.3	11	53	(--)	127	(--)
2.5	0.7	1.4	1.8	6.7	12	65	(--)	153	(--)
4	0.7	1.4	1.8	7.2	13	81	(60)	197	(160)
6	0.7	1.4	1.8	7.8	14	108	(70)	252	(210)
10	0.7	1.4	1.8	9.4	17	155	(90)	357	(250)
16	0.7	1.4	1.8	10.0	18.5	210	(120)	487	(300)
25	0.9	1.4	1.8	12.0	22	315	(160)	720	(420)
35	0.9	1.4	1.8	13.0	24	414	(200)	943	(530)
50	1.0	1.4	1.8	14.5	27	542	(250)	1229	(660)
70	1.1	1.4	1.8	16.0	31	761	(330)	1702	(870)
95	1.1	1.5	1.9	18.5	35	1026	(430)	2285	(1140)
120	1.2	1.5	2.0	20.0	38	1279	(520)	2890	(1400)
150	1.4	1.6	2.2	22.0	43	1524	(640)	3475	(1710)
185	1.6	1.6	2.6	24.0	47	1872	(780)	4282	(2110)
240	1.7	1.7	2.5	27.0	53	2391	(1000)	5469	(2740)
300	1.8	1.8	2.6	30.0	58	3023	(1230)	6876	(3360)
400	2.0	1.9	-	34.0	-	3975	(1550)	-	-
500	2.2	2.0	-	37.0	-	4894	(1950)	-	-
630	2.4	2.2	-	42.0	-	6283	(2580)	-	-

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm ²	Thickness of Sheath mm ²		Approx. Overall Diameter mm ²		Approx. Weight kg/km			
		mm ²		mm ²		3C		4C	
		3C	4C	3C	4C				
1.5	0.7	1.8	1.8	11.5	14	148	(--)	179	(--)
2.5	0.7	1.8	1.8	12.5	15	189	(--)	226	(--)
4	0.7	1.8	1.8	13.5	16	245	(180)	305	(220)
6	0.7	1.8	1.8	14.5	18	321	(220)	397	(260)
10	0.7	1.8	1.8	18.0	20	464	(290)	585	(350)
16	0.7	1.8	1.8	19.5	22	649	(360)	816	(440)
25	0.9	1.8	1.8	23.0	26	975	(520)	1242	(630)
35	0.9	1.8	1.8	25.0	28	1287	(620)	1661	(790)
50	1.0	1.8	1.9	29.0	32	1693	(820)	2215	(1020)
70	1.1	1.9	2.0	33.0	37	2383	(1200)	3110	(1410)
95	1.1	2.0	2.1	37.0	41	3224	(1440)	4027	(1570)
120	1.2	2.1	2.3	41.0	45	4036	(1780)	5307	(2270)
150	1.4	2.3	2.4	46.0	50	4840	(2200)	6327	(2780)
185	1.6	2.4	2.6	50.0	55	5975	(2720)	7846	(3480)
240	1.7	2.6	2.8	57.0	62	7641	(3540)	10038	(4490)
300	1.8	2.7	3.0	62.0	68	9638	(4340)	12609	(5510)

* () : Weight of aluminum Conductor Cable

0.6/1KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC 0.6/1KV CV/S(A)WA, AL-CV/S(A)WA

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Inner Sheath mm		Diameter of Armour mm		Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
		1C	2C	1C	2C	1C	2C	1C	2C				
										1C		2C	
1.5	0.7	1.0	1.0	1.6	0.9	1.8	1.8	14	15	180	(-)	360	(-)
2.5	0.7	1.0	1.0	1.6	0.9	1.8	1.8	14	15	200	(-)	380	(-)
4	0.7	1.0	1.0	1.6	1.25	1.8	1.8	15	16	220	(200)	460	(440)
6	0.7	1.0	1.0	1.6	1.25	1.8	1.8	15	17	250	(220)	640	(500)
10	0.7	1.0	1.0	1.6	1.25	1.8	1.8	16	20	320	(250)	780	(580)
16	0.7	1.0	1.0	1.6	1.25	1.8	1.8	17	21	380	(280)	930	(650)
25	0.9	1.0	1.0	1.6	1.6	1.8	1.8	19	26	510	(350)	1400	(1140)
35	0.9	1.0	1.0	1.6	1.6	1.8	1.8	20	28	630	(410)	1670	(1310)
50	1.0	1.0	1.0	1.6	1.6	1.8	1.8	21	31	770	(480)	2090	(1530)
70	1.1	1.0	1.0	1.6	2.0	1.8	2.0	23	35	1010	(580)	3010	(1910)
95	1.1	1.0	1.2	1.6	2.0	1.8	2.1	25	40	1290	(700)	3730	(2580)
120	1.2	1.0	1.2	1.6	2.0	1.8	2.2	26	43	1610	(860)	4460	(3010)
150	1.4	1.0	1.2	1.6	2.5	1.8	2.3	29	47	1920	(1000)	5740	(3620)
185	1.6	1.0	1.4	1.6	2.5	1.8	2.5	30	53	2330	(1170)	6820	(4600)
240	1.7	1.0	1.4	1.6	2.5	1.9	2.7	33	59	2980	(1440)	8150	(5530)
300	1.8	1.0	1.6	1.6	2.5	2.0	2.8	36	65	3630	(1700)	9840	(6530)
400	2.0	1.2	-	2.0	-	2.1	-	40	-	4670	(2200)	-	-
500	2.2	1.2	-	2.0	-	2.2	-	43	-	5840	(2670)	-	-
630	2.4	1.2	-	2.0	-	2.3	-	49	-	7800	(3100)	-	-

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Inner Sheath mm		Diameter of Armour mm		Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
		3C	4C	3C	4C	3C	4C	3C	4C				
										3C		4C	
1.5	0.7	1.0	1.0	0.9	0.9	1.8	1.8	15	16	340	(-)	440	(-)
2.5	0.7	1.0	1.0	0.9	0.9	1.8	1.8	16	17	420	(-)	570	(-)
4	0.7	1.0	1.0	1.25	1.25	1.8	1.8	17	18	600	(480)	670	(530)
6	0.7	1.0	1.0	1.25	1.25	1.8	1.8	18	19	700	(550)	840	(610)
10	0.7	1.0	1.0	1.25	1.25	1.8	1.8	20	22	900	(640)	1060	(740)
16	0.7	1.0	1.0	1.25	1.6	1.8	1.8	22	24	1270	(740)	1480	(1090)
25	0.9	1.0	1.0	1.6	1.6	1.8	1.8	27	29	1700	(1250)	2030	(1140)
35	0.9	1.0	1.0	1.6	1.6	1.8	1.9	30	32	2080	(1450)	2530	(1650)
50	1.0	1.0	1.0	1.6	2.0	1.9	2.0	32	35	2610	(1740)	3510	(2280)
70	1.1	1.0	1.2	2.0	2.0	2.0	2.1	37	41	3750	(2400)	4630	(2900)
95	1.1	1.2	1.2	2.0	2.0	2.2	2.3	42	46	4730	(2920)	5850	(3460)
120	1.2	1.2	1.4	2.0	2.5	2.3	2.5	46	52	6090	(3430)	7630	(4540)
150	1.4	1.4	1.4	2.5	2.5	2.5	2.6	52	56	7090	(4450)	8910	(5350)
185	1.6	1.4	1.4	2.5	2.5	2.6	2.8	56	62	8730	(5450)	10690	(6310)
240	1.7	1.4	1.6	2.5	2.5	2.8	3.0	63	69	10960	(6250)	13230	(7710)
300	1.8	1.6	1.6	2.5	2.5	3.0	3.2	69	76	12780	(7250)	16970	(9620)

* () : Weight of aluminum Conductor Cable

1.8/3kV CU/XLPE/PVC, AL/XLPE/PVC
1.8/3kV CV, AL-CV

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
		mm		mm		1C		3C	
		1C	3C	1C	3C				
10	2.0	1.4	1.8	12	23	210	(150)	670	(480)
16	2.0	1.4	1.8	13	25	270	(170)	860	(560)
25	2.0	1.4	1.8	124	27	370	(210)	1180	(710)
35	2.0	1.4	1.8	15	29	470	(250)	1530	(810)
50	2.0	1.4	1.9	16	32	600	(300)	1930	(1030)
70	2.0	1.5	2.0	18	36	820	(390)	2620	(1330)
95	2.0	1.5	2.2	20	40	1080	(490)	3490	(1700)
120	2.0	1.6	2.3	21	44	1340	(590)	4330	(2060)
150	2.0	1.6	2.4	23	47	1610	(690)	5220	(2410)
185	2.0	1.7	2.5	25	51	1990	(830)	6390	(2880)
240	2.0	1.8	2.7	28	57	2590	(1050)	10250	(3650)
300	2.0	1.8	2.8	30	62	3180	(1250)	12930	(4390)
400	2.0	1.9	-	33	-	4020	(1550)	-	-
500	2.2	2.0	-	36	-	5120	(1950)	-	-
630	2.4	2.2	-	42	-	6680	(2580)	-	-

1.8/3kV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC
1.8/3kV CV/S(A)WA, AL-CV/S(A)WA

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Inner Sheth mm		Diameter of Armour mm		Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
		mm		mm		mm		mm		1C		3C	
		1C	3C	1C	3C	1C	3C	1C	3C				
10	2.0	1.0	1.0	1.6	1.6	1.8	1.8	16	28	380	(320)	1500	(1310)
16	2.0	1.0	1.0	1.6	1.6	1.8	1.8	17	29	430	(330)	1710	(1410)
25	2.0	1.0	1.0	1.6	1.6	1.8	1.9	18	32	540	(390)	2130	(1660)
35	2.0	1.0	1.0	1.6	1.6	1.8	1.9	19	34	660	(450)	2590	(1860)
50	2.0	1.0	1.2	1.6	2.0	1.8	2.1	20	39	800	(510)	3370	(2480)
70	2.0	1.0	1.2	1.6	2.0	1.8	2.2	22	43	1030	(610)	4230	(2950)
95	2.0	1.0	1.2	1.6	2.0	1.8	2.3	25	46	1420	(830)	5240	(3450)
120	2.0	1.0	1.4	1.6	2.5	1.8	2.4	27	51	1700	(950)	6720	(4450)
150	2.0	1.0	1.4	1.6	2.5	1.8	2.5	28	54	1990	(1060)	7780	(4970)
185	2.0	1.0	1.4	1.6	2.5	1.8	2.7	30	58	2370	(1210)	9170	(5660)
240	2.0	1.0	1.6	1.6	2.5	1.8	2.8	33	65	3010	(1470)	11440	(6770)
300	2.0	1.0	1.6	1.6	2.5	2.0	3.0	35	70	3660	(1720)	13660	(7800)
400	2.0	1.2	-	2.0	-	2.1	-	39	-	4670	(2220)	-	-
500	2.2	1.2	-	2.0	-	2.2	-	43	-	5840	(2670)	-	-
600	2.4	1.2	-	2.0	-	2.4	-	50	-	7490	(3460)	-	-

* () : Weight of aluminum Conductor Cable

3.6/6kV CU/XLPE/PVC, AL/XLPE/PVC
 3.6/6kV CV, AL-CV
 3.8/6.6kV CU/XLPE/PVC, AL/XLPE/PVC

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
		1C	3C	1C	3C	1C		3C	
10	2.5	1.4	1.9	14	27	320	(260)	1040	(850)
16	2.5	1.4	2.0	15	29	390	(290)	1270	(970)
25	2.5	1.5	2.0	16	32	500	(350)	1610	(1140)
35	2.5	1.5	2.1	18	34	610	(400)	1990	(1330)
50	2.5	1.5	2.2	20	39	760	(470)	2460	(1570)
70	2.5	1.6	2.3	22	41	990	(560)	3200	(1910)
95	2.5	1.7	2.5	24	46	1280	(690)	4140	(2350)
120	2.5	1.7	2.6	25	50	1540	(790)	5030	(2750)
150	2.5	1.8	2.7	27	52	1840	(910)	5960	(3150)
185	2.5	1.8	2.8	28	56	2220	(1060)	7190	(3680)
240	2.6	1.9	3.0	32	62	2870	(1330)	9310	(4650)
300	2.8	2.0	3.2	35	68	3530	(1600)	11460	(5600)
400	3.0	2.1	-	38	-	4420	(1950)	-	-
500	3.2	2.2	-	42	-	5560	(2400)	-	-
630	3.2	2.3	-	47	-	7020	(2920)	-	-

* (BS6622 covers the conductor above 70sqmm)

3.6/6KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC
 3.6/6KV CV/S(A)WA, AL-CV/S(A)WA
 3.8/6.6KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Inner Sheth mm		Diameter of Armour mm		Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
		1C	3C	1C	3C	1C	3C	1C	3C	1C		3C	
10	2.5	1.2	1.2	1.6	2.0	1.8	2.1	21	37	550	(320)	2400	(2250)
16	2.5	1.2	1.2	1.6	2.0	1.8	2.2	21	38	630	(330)	2730	(2440)
25	2.5	1.2	1.2	1.6	2.0	1.8	2.3	24	41	850	(390)	3220	(2750)
35	2.5	1.2	1.2	1.6	2.5	1.8	2.4	25	44	980	(450)	3690	(3040)
50	2.5	1.2	1.3	1.6	2.5	1.8	2.5	26	47	1140	(510)	4730	(3840)
70	2.5	1.2	1.4	1.6	2.5	1.8	2.6	28	52	1400	(610)	5730	(4440)
95	2.5	1.2	1.4	1.6	2.5	1.9	2.7	30	56	1710	(830)	6840	(5050)
120	2.5	1.2	1.5	1.6	2.5	1.9	2.9	31	59	2010	(950)	7980	(5710)
150	2.5	1.2	1.6	1.6	2.5	2.0	3.0	33	63	2330	(1060)	9140	(6330)
185	2.5	1.2	1.6	2.0	2.5	2.0	3.1	35	67	2830	(1210)	10570	(7060)
240	2.6	1.2	1.7	2.0	2.5	2.1	3.3	39	74	3540	(1470)	13150	(8490)
300	2.8	1.2	1.8	2.0	3.15	2.2	3.5	41	82	4250	(1720)	16680	(10620)
400	3.0	1.2	-	2.0	-	2.3	-	45	-	5220	(2220)	-	-
500	3.2	1.3	-	2.0	-	2.5	-	50	-	6640	(2670)	-	-
600	3.2	1.4	-	2.5	-	2.6	-	55	-	7990	(3460)	-	-

* () : Weight of aluminum Conductor Cable

* (BS6622 covers the conductor above 70sqmm)

6/10kV CU/XLPE/PVC, AL/XLPE/PVC
 6/10kV CV, AL-CV
 6.35/11kV CU/XLPE/PVC, AL/XLPE/PVC

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
						1C		3C	
		1C	3C	1C	3C				
16	3.4	1.5	2.1	19	36	460	(360)	1520	(1230)
25	3.4	1.5	2.2	20	39	270	(420)	1920	(1140)
35	3.4	1.6	2.3	21	42	700	(480)	2310	(1330)
50	3.4	1.6	2.4	22	44	840	(550)	2800	(1570)
70	3.4	1.7	2.5	24	48	1090	(660)	3580	(1910)
95	3.4	1.7	2.6	26	52	1370	(780)	4510	(2350)
120	3.4	1.8	2.7	27	56	1650	(900)	5430	(2750)
150	3.4	1.8	2.8	29	59	1940	(1020)	6370	(3150)
185	3.4	1.9	2.9	31	63	2340	(1180)	7640	(3680)
240	3.4	2.0	3.1	34	70	2990	(1450)	9840	(4650)
300	3.4	2.0	3.3	36	74	3620	(2530)	11830	(5600)
400	3.4	2.1	-	39	-	4490	(2020)	-	-
500	3.4	2.2	-	42	-	5610	(2440)	-	-
630	3.4	2.3	-	47	-	7170	(3070)	-	-

* (BS6622 covers the conductor above 70sqmm)

6/10KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC
 6/10KV CV/S(A)WA, AL-CV/S(A)WA
 6.35/11KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Inner Sheath mm		Diameter of Armour mm		Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
										1C		3C	
		1C	3C	1C	3C	1C	3C	1C	3C				
16	3.4	1.2	1.2	1.6	2.0	1.8	2.3	24	43	800	(710)	3150	(2860)
25	3.4	1.2	1.3	1.6	2.5	1.8	2.5	26	47	940	(790)	4140	(3670)
35	3.4	1.2	1.3	1.6	2.5	1.8	2.5	27	49	1070	(860)	4640	(3990)
50	3.4	1.2	1.4	1.6	2.5	1.8	2.6	28	52	1230	(940)	5280	(4390)
70	3.4	1.2	1.4	1.6	2.5	1.9	2.8	30	56	1500	(1080)	6290	(5010)
95	3.4	1.2	1.5	1.6	2.5	1.9	2.9	31	60	1810	(1230)	7480	(5700)
120	3.4	1.2	1.6	1.6	2.5	2.0	3.0	33	64	2130	(1380)	610	(6330)
150	3.4	1.2	1.6	2.0	2.5	2.0	3.1	35	67	2520	(1600)	9730	(6920)
185	3.4	1.2	1.7	2.0	2.5	2.1	3.2	37	71	2960	(1800)	12230	(7720)
240	3.4	1.2	1.8	2.0	3.15	2.2	3.4	40	79	3660	(2120)	14770	(10110)
300	3.4	1.2	1.9	2.0	3.15	2.3	3.6	43	84	4350	(2410)	17170	(11310)
400	3.4	1.2	-	2.0	-	2.4	-	46	-	5280	(2810)	-	-
500	3.4	1.3	-	2.5	-	2.5	-	50	-	6650	(3480)	-	-
630	3.4	1.4	-	2.5	-	2.6	-	56	-	8020	(3990)	-	-

* () : Weight of aluminum Conductor Cable

* (BS6622 covers the conductor above 70sqmm)

8.7/15kV CU/XLPE/PVC, AL/XLPE/PVC

8.7/15kV CV, AL-CV

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
		1C	3C	1C	3C	1C		3C	
25	4.5	1.6	2.4	22	45	670	(520)	2280	(1810)
35	4.5	1.7	2.4	24	47	800	(590)	2680	(2030)
50	4.5	1.7	2.5	25	50	950	(660)	3190	(2290)
70	4.5	1.7	2.7	27	54	1190	(770)	4030	(2740)
95	4.5	1.8	2.8	28	58	1490	(900)	5000	(3210)
120	4.5	1.9	2.9	30	61	1790	(1030)	5930	(3660)
150	4.5	1.9	3.0	32	64	2080	(1150)	6920	(4110)
185	4.5	2.0	3.1	33	68	2490	(1330)	8190	(4680)
240	4.5	2.0	3.3	36	76	3130	(1590)	9880	(5720)
300	4.5	2.1	3.4	39	80	3790	(1850)	12470	(6610)
400	4.5	2.2	-	43	-	4670	(2200)	-	-
500	4.5	2.3	-	45	-	5800	(2630)	-	-
630	4.5	2.4	-	50	-	7390	(3290)	-	-

* (BS6622 covers the conductor above 70sqmm)

8.7/15KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC

8.7/15KV CV/S(A)WA, AL-CV/S(A)WA

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Inner Sheth mm		Diameter of Armour mm		Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
		1C	3C	1C	3C	1C	3C	1C	3C	1C		3C	
25	4.5	1.2	1.4	1.6	2.5	1.8	2.6	28	53	1070	(910)	4770	(4310)
35	4.5	1.2	1.4	1.6	2.5	1.9	2.7	29	55	1210	(1000)	5300	(4680)
50	4.5	1.2	1.5	1.6	2.5	1.9	2.8	30	58	1380	(1090)	6020	(5120)
70	4.5	1.2	1.5	1.6	2.5	1.9	2.9	32	62	1640	(1220)	7050	(5780)
95	4.5	1.2	1.6	2.0	2.5	2.0	3.1	35	66	2070	(1480)	8270	(6490)
120	4.5	1.2	1.7	2.0	2.5	2.1	3.2	37	70	2390	(1640)	9430	(7150)
150	4.5	1.2	1.7	2.0	3.15	2.1	3.3	38	74	2710	(1780)	11470	(8670)
185	4.5	1.2	1.8	2.0	3.15	2.2	3.4	40	78	3150	(1990)	13070	(9560)
240	4.5	1.2	1.9	2.0	3.15	2.3	3.6	43	85	3870	(2330)	15800	(11410)
300	4.5	1.2	2.0	2.0	3.15	2.3	3.8	45	90	4550	(2610)	18270	(12410)
400	4.5	1.3	-	2.5	-	2.5	-	49	-	5690	(3220)	-	-
500	4.5	1.3	-	2.5	-	2.6	-	53	-	6960	(3800)	-	-
600	4.5	1.4	-	2.5	-	2.7	-	58	-	8280	(4240)	-	-

* () : Weight of aluminum Conductor Cable

* (BS6622 covers the conductor above 70sqmm)

12/20kV CU/XLPE/PVC, AL/XLPE/PVC
 12/20kV CV, AL-CV
 12.7/22kV CU/XLPE/PVC, AL/XLPE/PVC

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
						1C		3C	
		1C	3C	1C	3C				
35	5.5	1.7	2.6	26	53	910	(700)	3170	(2520)
50	5.5	1.8	2.7	28	56	1050	(790)	3550	(2800)
70	5.5	1.8	2.8	29	59	1300	(900)	4350	(3240)
95	5.5	1.9	3.0	30	63	1600	(1050)	5360	(3730)
120	5.5	1.9	3.1	33	66	1880	(1170)	6270	(4200)
150	5.5	2.0	3.2	34	69	2200	(1310)	7370	(4700)
185	5.5	2.1	3.3	36	73	2600	(1480)	8590	(5300)
240	5.5	2.1	3.4	39	78	3180	(1770)	10600	(6390)
300	5.5	2.2	3.6	41	87	3960	(2040)	13300	(7250)
400	5.5	2.3	-	45	-	4910	(2410)	-	-
500	5.5	2.4	-	48	-	5950	(2860)	-	-
630	5.5	2.5	-	51	-	7310	(3540)	-	-

* (BS6622 covers the conductor above 70sqmm)

12/20KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC
 12/20KV CV/S(A)WA, AL-CV/S(A)WA
 12.7/22KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Inner Sheth mm		Diameter of Armour mm		Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
										1C		3C	
		1C	3C	1C	3C	1C	3C	1C	3C				
35	5.5	1.2	1.5	1.6	2.5	1.9	2.9	32	61	1370	(1150)	6190	(5530)
50	5.5	1.2	1.6	1.6	2.5	2.0	3.0	33	64	1550	(1260)	6870	(5980)
70	5.5	1.2	1.6	2.0	2.5	2.0	3.1	36	68	1920	(1490)	7940	(6650)
95	5.5	1.2	1.7	2.0	2.5	2.1	3.2	38	72	2270	(1680)	9150	(7370)
120	5.5	1.2	1.8	2.0	3.15	2.1	3.4	39	77	2580	(1820)	11310	(9040)
150	5.5	1.2	1.8	2.0	3.15	2.2	3.5	41	80	2920	(1990)	12630	(9820)
185	5.5	1.2	1.9	2.0	3.15	2.2	3.6	42	84	3340	(2180)	14190	(10680)
240	5.5	1.2	2.0	2.0	3.15	2.3	3.8	45	92	4090	(2550)	17000	(12340)
300	5.5	1.3	2.1	2.5	3.15	2.4	3.9	49	97	4970	(3040)	19630	(13770)
400	5.5	1.3	-	2.5	-	2.5	-	52	-	5930	(3460)	-	-
500	5.5	1.4	-	2.5	-	2.6	-	56	-	7250	(4080)	-	-
630	5.5	1.5	-	2.5	-	2.7	-	60	-	8540	(4500)	-	-

* () : Weight of aluminum Conductor Cable

* (BS6622 covers the conductor above 70sqmm)

18/30KV CU/XLPE/PVC, AL/XLPE/PVC
 18/30KV CV, AL-CV
 19/33KV CU/XLPE/PVC, AL/XLPE/PVC

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
						1C		3C	
		1C	3C	1C	3C				
50	8.0	2.0	3.1	34	68	1360	(960)	4700	(4310)
70	8.0	2.1	3.2	36	72	1610	(1090)	5570	(4830)
95	8.0	2.1	3.3	38	76	1910	(1240)	6600	(5330)
120	8.0	2.1	3.4	40	79	2140	(1360)	7570	(5970)
150	8.0	2.2	3.6	41	83	2540	(1510)	8760	(6530)
185	8.0	2.2	3.7	43	86	2930	(1680)	10060	(7230)
240	8.0	2.3	3.8	46	91	3560	(1980)	12800	(8460)
300	8.0	2.4	4.0	48	98	4280	(2250)	15400	(9490)
400	8.0	2.5	-	51	-	5350	(2640)	-	-
500	8.0	2.6	-	55	-	6430	(3090)	-	-
630	8.0	2.7	-	60	-	7810	(3650)	-	-

* (BS6622 covers the conductor above 70sqmm)

18/30KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC
 18/30KV CV/S(A)WA, AL-CV/S(A)WA
 19/33KV CU/XLPE/PVC/S(A)WA/PVC, AL/XLPE/PVC/S(A)WA/PVC

Nominal Cross-Sectional Area of Conductor mm ²	Thickness of Insulation mm	Thickness of Inner Sheath mm		Diameter of Armour mm		Thickness of Sheath mm		Approx. Overall Diameter mm		Approx. Weight kg/km			
										1C		3C	
		1C	3C	1C	3C	1C	3C	1C	3C				
50	8.0	1.2	1.8	2.0	3.15	2.2	3.4	41	79	2140	(1840)	10360	(9470)
70	8.0	1.2	1.8	2.0	3.15	2.2	3.5	433	82	2440	(2010)	11500	(10210)
95	8.0	1.2	1.9	2.0	3.15	2.3	3.7	44	85	2800	(2220)	12960	(11170)
120	8.0	1.2	2.0	2.0	3.15	2.3	3.8	45	90	3130	(2470)	14270	(12000)
150	8.0	1.3	2.0	2.5	3.15	2.4	3.9	49	94	3670	(2750)	15590	(12780)
185	8.0	1.3	2.1	2.5	3.15	2.5	4.0	51	98	4150	(2990)	17330	(13820)
240	8.0	1.3	2.2	2.5	3.15	2.5	4.2	54	104	4910	(3370)	20200	(15540)
300	8.0	1.4	2.3	2.5	3.15	2.6	4.3	56	110	5680	(3750)	26940	(17000)
400	8.0	1.4	-	2.5	-	2.7	-	59	-	6670	(4210)	-	-
500	8.0	1.5	-	2.5	-	2.8	-	63	-	8050	(4880)	-	-
630	8.0	1.6	-	2.5	-	3.0	-	66	-	9010	(5200)	-	-

* () : Weight of aluminum Conductor Cable

* (BS6622 covers the conductor above 70sqmm)

15kV URD Cable – TR XLPE or EPR 175mil 100% insulation level

■ ALUMINIUM Conductor

Phase Conductor		Copper Neutral		Thickness (mils)				Diameter (mils)			Weight (XLPE) 1000fts(lbs)		Weight (EPR) 1000fts(lbs)		Allowable Ampacities+		
Size AWG or kcmil	No. of Wires	No. of Wires	Wire Size AWG	Cond. Shield	Insul. (Min Avg.)	Insul Shield	Jkt.	Bare Phase Cond.	Over Insul.	Over Jkt	with-out Jacket	comp. cable	with-out Jacket	comp. cable	1/C Duct Buried	1/C Duct Buried	1/C Duct In Air
FULL NEUTRAL																	
2	7	10	14	20	175	40	50	283	695	1003	370	487	455	518	170	115	100
1	19	13	14	20	175	40	50	322	730	1038	437	556	536	600	195	140	123
1/0	19	16	14	20	175	40	50	362	770	1078	510	632	615	680	230	155	135
2/0	19	13	12	20	175	40	50	405	815	1157	616	760	732	810	270	185	162
3/0	19	16	12	20	175	40	50	456	865	1207	730	874	848	927	295	210	184
4/0	19	20	12	20	175	40	50	512	920	1262	875	1030	1009	1090	335	240	210
ONE-THIRD (1/3) NEUTRAL															3/C Direct Buried	3/C Direct Buried	3/C Direct Buried
1/0	19	6	14	20	175	40	50	362	770	1078	373	515	482	547	230	165	145
2/0	19	7	14	20	175	40	50	405	815	1123	434	575	552	630	250	190	167
3/0	19	9	14	20	175	40	50	456	865	1173	510	655	630	709	280	215	189
4/0	19	11	14	20	175	40	50	512	920	1228	598	759	737	818	320	245	215
250	37	13	14	25	175	40	50	558	980	1288	684	889	849	959	345	270	237
350	37	11	12	25	175	60	50	660	1080	1462	913	1175	1112	1253	405	325	285
500	37	16	12	25	175	60	50	789	1210	1562	1207	1498	1442	1590	460	385	338
750	61	15	10	30	175	60	80	968	1400	1884	1685	2057	1959	2149	515	475	417
1000	61	20	10	30	175	80	80	1117	1545	2069	2210	2516	2524	2727	565	540	475

■ COPPER Conductor

Phase Conductor		Copper Neutral		Thickness (mils)				Diameter (mils)			Weight (XLPE) 1000fts(lbs)		Weight (EPR) 1000fts(lbs)		Allowable Ampacities+		
Size AWG or kcmil	No. of Wires	No. of Wires	Wire Size AWG	Cond. Shield	Insul. (Min Avg.)	Insul Shield	Jkt.	Bare Phase Cond.	Over Insul.	Over Jkt	with-out Jacket	comp. cable	with-out Jacket	comp. cable	1/C Duct Buried	1/C Duct Buried	1/C Duct In Air
FULL NEUTRAL																	
2	7	16	14	20	175	40	50	283	695	1003	642	700	677	740	225	160	140
1	19	13	12	20	175	40	50	322	730	1078	804	870	811	875	260	185	162
1/0	19	16	12	20	175	40	50	362	770	1112	923	993	960	1025	295	210	185
2/0	19	20	12	20	175	40	50	405	815	1157	1107	1176	1166	1244	330	240	210
3/0	19	25	12	20	175	40	50	456	865	1207	1334	1402	1398	1477	375	270	237
4/0	19	32	12	20	175	40	50	512	920	1262	1642	1708	1703	1784	430	305	268
ONE-THIRD (1/3) NEUTRAL															3/C Direct Buried	3/C Direct Buried	3/C Duct in Air
1/0	19	9	14	20	175	40	50	362	770	1078	708	777	749	814	290	210	185
2/0	19	11	14	20	175	40	50	405	815	1123	836	907	891	969	320	240	210
3/0	19	14	14	20	175	40	50	456	865	1173	1002	1074	1056	1135	350	275	241
4/0	19	11	12	20	175	40	50	512	920	1262	1227	1317	1267	1348	390	315	276
250	37	13	12	25	175	40	50	558	980	1322	1427	1546	1487	1597	415	340	298
350	37	12	10	25	175	60	50	660	1080	1504	1904	2055	2022	2164	475	415	364
500	37	17	10	25	175	60	50	789	1210	1694	2664	2823	2712	2860	525	480	420
750	61	25	10	30	175	60	80	968	1400	1884	3794	3964	3783	4063	560	530	465
1000	61	33	10	30	175	80	80	1117	1545	2106	4948	5127	5028	5231	600	590	518

+ Ampacities based on earth thermal resistivity of 90°C -cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor, and 36" depth of burial. Values are based on one-three phase circuit, on conductor per phase, in adjacent configuration with wires bonded at each end.

* REA bulletin 60-70 (U-1) dated 28/12/1987 requires 175mil insulation thickness for 100% 15kV cable.

15kV URD Cable -TR XLPE or EPR 220mil 133% insulation level

■ ALUMINIUM Conductor

Phase Conductor		Copper Neutral		Thickness (mils)				Diameter (mils)			Weight (XLPE) 1000fts(lbs)		Weight (EPR) 1000fts(lbs)		Allowable Ampacities+		
Size AWG or kcmil	No. of Wires	No. of Wires	Wire Size AWG	Cond. Shield	Insul. (Min Avg.)	Insul Shield	Jkt.	Bare Phase Cond.	Over Insul.	Over Jkt	with-out Jacket	comp. cable	with-out Jacket	comp. cable	1/C Duct Buried	1/C Duct Buried	1/C Duct In Air
FULL NEUTRAL																	
2	7	10	14	20	220	40	50	283	785	1093	415	549	534	603	170	115	100
1	19	13	14	20	220	40	50	322	820	1125	487	619	607	676	195	140	123
1/0	19	16	14	20	220	40	50	362	860	1168	562	697	691	764	230	155	135
2/0	19	13	12	20	220	40	50	405	905	1247	670	830	808	895	270	185	162
3/0	19	16	12	20	220	40	50	456	955	1297	787	946	926	1015	295	210	184
4/0	19	20	12	20	220	60	50	512	1010	1352	934	1148	1135	1228	335	240	210
ONE-THIRD (1/3) NEUTRAL															3/C Direct Buried	3/C Direct Buried	3/C Direct Buried
1/0	19	6	14	20	220	40	50	362	860	1168	441	580	558	631	230	165	145
2/0	19	7	14	20	220	40	50	405	905	1213	490	643	628	715	250	190	167
3/0	19	9	14	20	220	40	50	456	955	1263	567	725	708	797	280	215	189
4/0	19	11	14	20	220	60	50	512	1010	1318	656	842	863	956	320	245	215
250	37	13	14	25	220	60	50	558	1070	1418	781	013	978	1092	345	270	237
350	37	11	12	25	220	60	50	660	1170	1612	987	1266	1219	1369	405	325	285
500	37	16	12	25	220	60	50	789	1300	1742	1284	1597	1555	1715	460	385	338
750	61	15	10	30	220	60	80	968	1490	1974	1774	2230	2144	2349	515	475	417
1000	61	20	10	30	220	80	80	1117	1635	2159	2301	2718	2667	2882	565	540	475

■ COPPER Conductor

Phase Conductor		Copper Neutral		Thickness (mils)				Diameter (mils)			Weight (XLPE) 1000fts(lbs)		Weight (EPR) 1000fts(lbs)		Allowable Ampacities+		
Size AWG or kcmil	No. of Wires	No. of Wires	Wire Size AWG	Cond. Shield	Insul. (Min Avg.)	Insul Shield	Jkt.	Bare Phase Cond.	Over Insul.	Over Jkt	with-out Jacket	comp. cable	with-out Jacket	comp. cable	1/C Duct Buried	1/C Duct Buried	1/C Duct In Air
FULL NEUTRAL																	
2	7	16	14	20	220	40	50	283	785	1093	695	760	756	825	225	160	140
1	19	13	12	20	220	40	50	322	820	1125	559	633	881	951	260	185	162
1/0	19	16	12	20	220	40	50	362	860	1168	982	1060	1036	1109	295	210	185
2/0	19	20	12	20	220	40	50	405	905	1247	1169	1246	1242	1329	330	240	210
3/0	19	25	12	20	220	40	50	456	955	1297	1399	1475	1476	1565	375	270	237
4/0	19	32	12	20	220	60	50	512	1010	1352	1747	1825	1829	1922	430	305	268
ONE-THIRD (1/3) NEUTRAL															3/C Direct Buried	3/C Direct Buried	3/C Direct Buried
1/0	19	9	14	20	220	40	50	362	860	1168	767	842	749	814	290	210	185
2/0	19	11	14	20	220	40	50	405	905	1213	897	975	891	969	320	240	210
3/0	19	14	14	20	220	40	50	456	955	1263	1066	1145	1056	1135	350	275	241
4/0	19	11	12	20	220	60	50	512	1010	1318	1333	1434	1267	1348	390	315	276
250	37	13	12	25	220	60	50	558	1070	1418	1539	1673	1487	1597	415	340	298
350	37	12	10	25	220	60	50	660	1170	1612	1987	2149	2022	2164	475	415	364
500	37	17	10	25	220	60	50	789	1300	1742	2754	2924	2712	2860	525	480	420
750	61	25	10	30	220	60	80	968	1490	1974	3952	4138	3783	4063	560	530	465
1000	61	33	10	30	220	80	80	1117	1635	2159	5061	5251	5028	5231	600	590	518

+ Ampacities based on earth thermal resistivity of 90°C -cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor, and 36" depth of burial. Values are based on one-three phase circuit, on conductor per phase, in adjacent configuration with wires bonded at each end.

* REA bulletin 60-70 (U-1) dated 28/12/1987 requires 220mil insulation thickness for 100% 15kV cable.

25kV URD Cable - TR XLPE or EPR 260mil 100% insulation level

■ ALUMINIUM Conductor

Phase Conductor		Copper Neutral		Thickness (mils)				Diameter (mils)			Weight (XLPE) 1000fts(lbs)		Weight (EPR) 1000fts(lbs)		Allowable Ampacities+		
Size AWG or kcmil	No. of Wires	No. of Wires	Wire Size AWG	Cond. Shield	Insul. (Min Avg.)	Insul Shield	Jkt.	Bare Phase Cond.	Over Insul.	Over Jkt	with-out Jacket	comp. cable	with-out Jacket	comp. cable	1/C Duct Buried	1/C Duct Buried	1/C Duct In Air
FULL NEUTRAL																	
1	19	13	14	20	260	40	50	322	900	1208	535	687	676	757	195	145	127
1/0	19	16	14	20	260	40	50	362	940	1250	614	767	762	845	220	165	145
2/0	19	13	12	20	260	40	50	405	985	1327	722	905	886	986	250	190	167
3/0	19	16	12	20	260	60	50	456	1035	1417	875	1065	1038	1141	290	210	185
4/0	19	20	12	20	260	60	50	512	1090	1472	1025	1241	1233	1340	325	245	215
ONE-THIRD (1/3) NEUTRAL															3/C Direct Buried	3/C Duct Buried	3/C Duct In Air
1/0	19	6	14	20	260	40	50	362	940	1250	475	650	629	712	225	160	145
2/0	19	7	14	20	260	40	50	405	985	1293	540	715	706	806	250	180	158
3/0	19	9	14	20	260	40	50	456	1035	1383	655	842	820	923	275	205	180
4/0	19	11	14	20	260	40	50	512	1090	1438	750	966	961	1068	310	240	210
250	37	13	14	25	260	40	50	558	1160	1508	852	1117	1086	1229	335	260	228
350	37	11	12	25	260	60	80	660	1260	1702	1060	1380	1328	1500	395	325	285
500	37	16	12	25	260	60	80	789	1390	1832	1369	1721	1681	1865	445	390	342
750	61	15	10	30	260	80	80	968	1580	2104	1920	2373	2294	2528	515	475	417
1000	61	20	10	30	260	80	80	1117	1725	2249	2405	2870	2828	3072	560	525	460

■ COPPER Conductor

Phase Conductor		Copper Neutral		Thickness (mils)				Diameter (mils)			Weight (XLPE) 1000fts(lbs)		Weight (EPR) 1000fts(lbs)		Allowable Ampacities+		
Size AWG or kcmil	No. of Wires	No. of Wires	Wire Size AWG	Cond. Shield	Insul. (Min Avg.)	Insul Shield	Jkt.	Bare Phase Cond.	Over Insul.	Over Jkt	with-out Jacket	comp. cable	with-out Jacket	comp. cable	1/C Duct Buried	1/C Duct Buried	1/C Duct In Air
FULL NEUTRAL																	
1	19	13	12	20	260	40	50	322	900	1242	615	701	951	1032	245	185	162
1/0	19	16	12	20	260	40	50	362	940	1284	1044	1133	1107	1190	280	215	189
2/0	19	20	12	20	260	40	50	405	985	1327	1232	1321	1320	1420	315	240	210
3/0	19	25	12	20	260	60	50	456	1035	1417	1502	1594	1589	1692	360	275	241
4/0	19	32	12	20	260	60	50	512	1090	1472	1828	1919	1927	2035	415	315	276
ONE-THIRD (1/3) NEUTRAL															3/C Direct Buried	3/C Duct Buried	3/C Duct In Air
1/0	19	9	14	20	260	40	50	362	940	1250	826	912	897	997	275	215	189
2/0	19	11	14	20	260	40	50	405	985	1293	960	1048	1045	1148	310	250	220
3/0	19	14	14	20	260	60	50	456	1035	1383	1166	1261	1246	1353	345	285	250
4/0	19	11	12	20	260	60	50	512	1090	1471	1414	1528	1490	1633	385	320	280
250	37	13	12	25	260	60	50	558	1160	1602	1628	1780	1724	1895	410	345	303
350	37	12	10	25	260	60	80	660	1260	1744	2083	2266	2338	2424	460	405	355
500	37	17	10	25	260	60	80	789	1390	1874	2858	3050	2952	3185	520	470	412
750	61	25	10	30	260	80	80	968	1580	2104	4071	4280	4207	4452	567	550	483
1000	61	33	10	30	260	80	80	1117	1725	2249	5190	5404	5330	5545	625	615	540

+ Ampacities based on earth thermal resistivity of 90 °C -cm/watt, 90 °C conductor temp., 20 °C earth ambient temperature, 75% load factor, and 36" depth of burial. Values are based on one-three phase circuit, on conductor per phase, in adjacent configuration with wires bonded at each end.

* REA bulletin 60-70 (U-1) dated 28/12/1987 requires 220mil insulation thickness for 100% 15kV cable.

35kV URD Cable – TR XLPE or EPR 345mil 100% insulation level

■ ALUMINIUM Conductor

Phase Conductor		Copper Neutral		Thickness (mils)				Diameter (mils)			Weight (XLPE) 1000fts(lbs)		Weight (EPR) 1000fts(lbs)		Allowable Ampacities+		
Size AWG or kcmil	No. of Wires	No. of Wires	Wire Size AWG	Cond. Shield	Insul. (Min Avg.)	Insul Shield	Jkt.	Bare Phase Cond.	Over Insul.	Over Jkt	with-out Jacket	comp. cable	with-out Jacket	comp. cable	1/C Duct Buried	1/C Duct Buried	1/C Duct In Air
FULL NEUTRAL																	
1/0	19	16	14	20	345	60	50	362	1110	1458	768	957	968	1068	220	165	145
2/0	19	13	12	20	345	60	50	405	1155	1593	885	1105	1105	1224	250	195	170
3/0	19	16	12	20	345	60	50	456	1205	1647	1010	1231	1236	1356	285	220	193
4/0	19	20	12	20	345	60	80	512	1260	1702	1170	1421	1433	1558	325	250	220
ONE-THIRD (1/3) NEUTRAL															3/C Direct Buried	3/C Direct Buried	3/C Direct Buried
1/0	19	6	14	20	345	60	50	362	1110	1458	635	840	835	935	215	165	145
2/0	19	7	14	20	345	60	50	405	1155	1503	703	911	925	1047	245	190	167
3/0	19	9	14	20	345	60	50	456	1205	1613	790	1003	1017	1137	275	215	189
4/0	19	11	14	20	345	60	80	512	1260	1668	890	1120	1161	1286	305	245	215
250	37	13	14	25	345	60	80	558	1335	1743	1005	1305	1301	1484	335	270	238
350	37	11	12	25	345	60	80	660	1435	1877	1225	1584	1558	1752	390	325	280
500	37	16	12	25	345	80	80	789	1565	2047	1599	2001	2004	2214	440	385	338
750	61	15	10	30	345	80	80	968	1755	2279	2125	2623	2590	2850	515	475	417
1000	61	20	10	30	345	80	80	1117	1900	2424	2730	3137	3143	3417	570	535	470

■ COPPER Conductor

Phase Conductor		Copper Neutral		Thickness (mils)				Diameter (mils)			Weight (XLPE) 1000fts(lbs)		Weight (EPR) 1000fts(lbs)		Allowable Ampacities+		
Size AWG or kcmil	No. of Wires	No. of Wires	Wire Size AWG	Cond. Shield	Insul. (Min Avg.)	Insul Shield	Jkt.	Bare Phase Cond.	Over Insul.	Over Jkt	with-out Jacket	comp. cable	with-out Jacket	comp. cable	1/C Duct Buried	1/C Duct Buried	1/C Duct In Air
FULL NEUTRAL																	
1/0	19	16	12	20	345	60	50	362	1110	1492	1218	1327	1314	1414	280	215	189
2/0	19	20	12	20	345	60	50	405	1155	1597	1414	1522	1539	1657	310	240	211
3/0	19	25	12	20	345	60	50	456	1205	1647	1653	1760	1785	1905	355	275	241
4/0	19	32	12	20	345	60	80	512	1260	1702	1992	2099	2127	2253	410	315	276
ONE-THIRD (1/3) NEUTRAL															3/C Direct Buried	3/C Direct Buried	3/C Direct Buried
1/0	19	9	14	20	345	60	50	362	1110	1458	999	1102	1103	1222	270	215	189
2/0	19	11	14	20	345	60	50	405	1155	1503	1139	1244	1265	1385	305	240	211
3/0	19	14	14	20	345	60	50	456	1205	1613	1316	1423	1445	1570	340	280	246
4/0	19	11	12	20	345	60	80	512	1260	1702	1576	1707	1690	1875	380	315	276
250	37	13	12	25	345	60	80	558	1335	1777	1799	1971	1940	2134	405	340	298
350	37	12	10	25	345	60	80	660	1435	1919	2269	1474	2470	2680	460	400	350
500	37	17	10	25	345	80	80	789	1565	2089	3117	3337	3273	3534	520	470	412
750	61	25	10	30	345	80	80	968	1755	2279	4300	4531	4505	4777	567	550	483
1000	61	33	10	30	345	80	80	1117	1900	2424	5435	5671	5647	5883	625	615	540

+Ampacities based on earth thermal resistivity of 90 °C -cm/watt, 90 °C conductor temp., 20 °C earth ambient temperature, 75% load factor, and 36" depth of burial. Values are based on one-three phase circuit, on conductor per phase, in adjacent configuration with wires bonded at each end.

* REA bulletin 60-70 (U-1) dated 28/12/1987 requires 220mil insulation thickness for 100% 15kV cable.



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