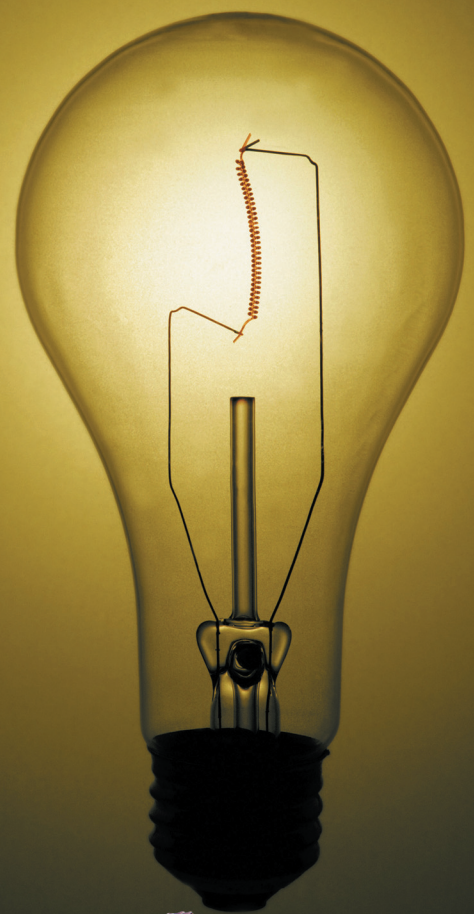


21C CABLE NEW LEADER

DAEWON

CONTENTS ····

1. INTRODUCTION · 1
2. WHAT IS XLPE CABLES? · 4
3. CHARACTERISTICS OF PLASTIC MATERIALS · 5
4. MANUFACTURING PROCESS · 6
5. CABLE CONSTRUCTION · 7
6. CONSTRUCTION OF THE CABLES · 8
 - IN ACCORDANCE WITH ICEA S-66-524 · 8
 - IN ACCORDANCE WITH IEC 502 · 26
 - IN ACCORDANCE WITH KS, JIS · 42
 - IN ACCORDANCE WITH DAEWON SPEC · 50
 - WATER BLOCKING CABLES · 56
7. TECHNICAL DATA · 60
 - TEST REQUIREMENTS · 60
 - SHORT CIRCUIT CURRENT (ICEA, IEC, KS, JIS, DAEWON SPEC) · 62
 - HANDLING & INSTALLATION OF XLPE CABLES · 65
 - SPLICING & TERMINATION METHOD · 66
8. ALUMINIUM CONDUCTOR CABLES · 68
 - MAX. CONDUCTOR RESISTANCE(Cu, Al) · 76
9. CURRENT CARRYING CAPACITY · 77
10. MAIN PRODUCTS · 93



I NTRODUCTION

Daewon Cable Co.,Ltd. was established in 1964 and has manufactured various kind of cables.

Now Daewon cable is the fastest growing company in its own field in Korea. It is through industrious research and development that Daewon cable has grown so strong. In recent years, the concentrated effort to expand overseas business has brought a steadily advance in products export. As a result, export now accounts for nearly 30% of overall sales volume.

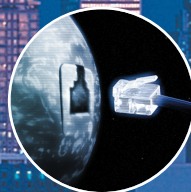
Daewon cable has served domestic clients and abroad as a forerunner in the manufacture of electric wires and cables.

We are proud to point out that Daewon cable has been able to expand factory facilities steadily. This addition will go long way to better serve our global customers in Daewon cable's tradition of quality, punctual delivery, accurate specifications and reliability.

We are hopeful that you will be given a general picture of our business activities and the scope by this catalogue. This catalogue, in particular, deals with Daewon cable's XLPE insulated power cables.

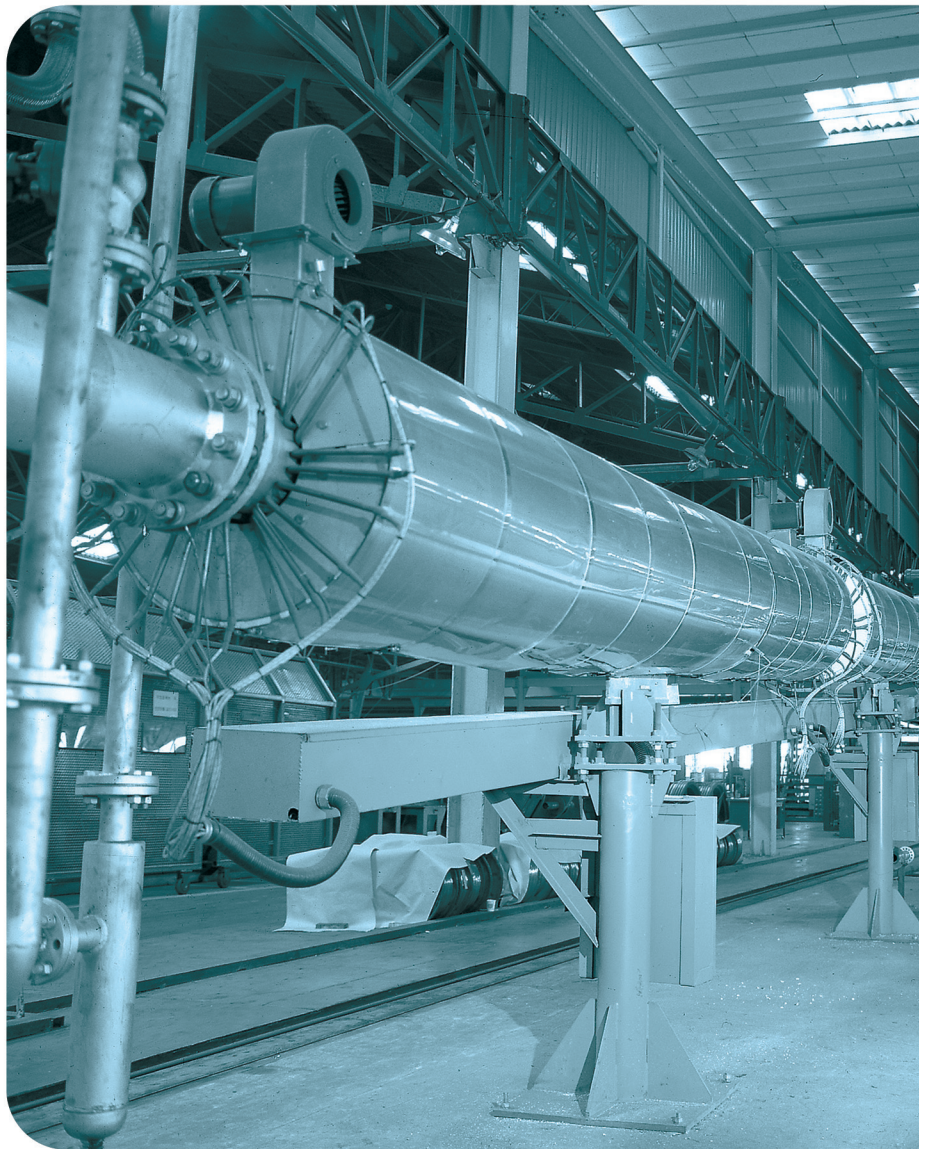
However, kindly bear in mind that other cables can be manufactured to your specifications and needs. Please feel free to inquire about our production in general, as well as our made-to other wires.

We will continue to make an effort toward the best quality of wires and cables for all our customers.

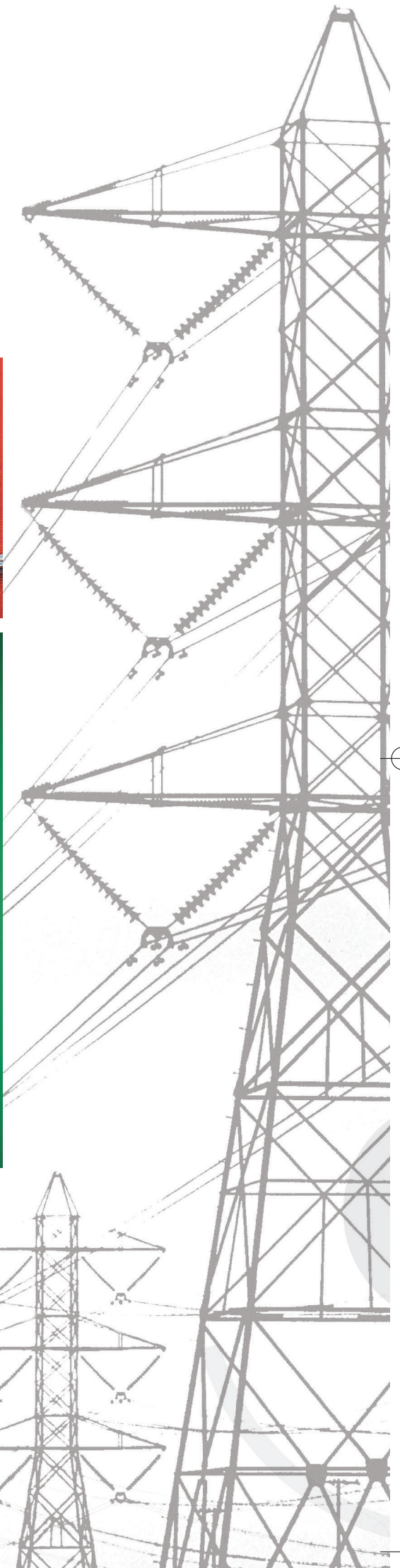
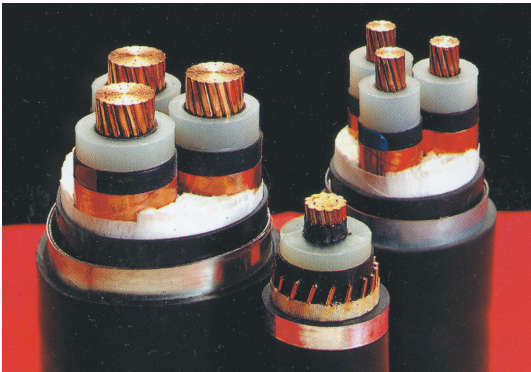


21C CABLE NEW LEADER

XLPE
INSULATED POWER
CABLES



From the foundation of Daewon Cable Co, Ltd. in 1964, it has been our firm belief that quality is the crucial factor in electrical wire and cable manufacturing industry.



WHAT IS XLPE CABLE?



XLPE CABLE is Cross-Linked Polyethylene insulated cable.

Polyethylene has a linear molecular structure as shown in fig. A and bunched as in fig. B.

Molecules of simple Polyethylene, which are not bonded chemically, will be deformed at high temperature, while Molecules of XLPE, bonded in a three-dimensional network as shown in fig. C, has a strong resistance to deformation even at high temperature.

The excellent electrical and physical properties of Cross-linked Polyethylene make it an ideal insulation material.

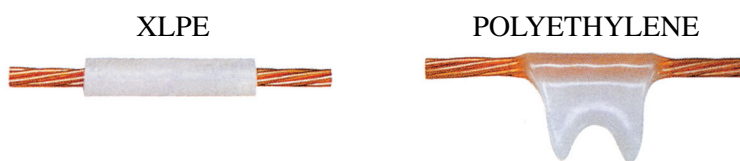
It has excellent heatproof and waterproof characteristics, and resists weathering, chemicals and oil.

The excellent resistance to thermal deformation and excellent aging property of Cross-Linked Polyethylene permit it to carry larger allowable currents under normal, emergency or short circuit conditions.

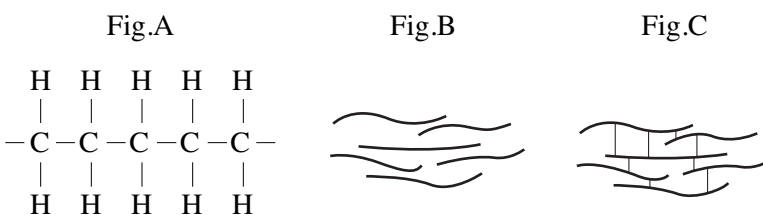
Maximum Allowable Temperature

Condition	Temperature
Normal	190℃
Emergency	130℃
Short Circuit	250℃

Crosslinking effort of cable cores after heating at 200℃ / 30min.



Molecular structure of Cross-Linked Polyethylene



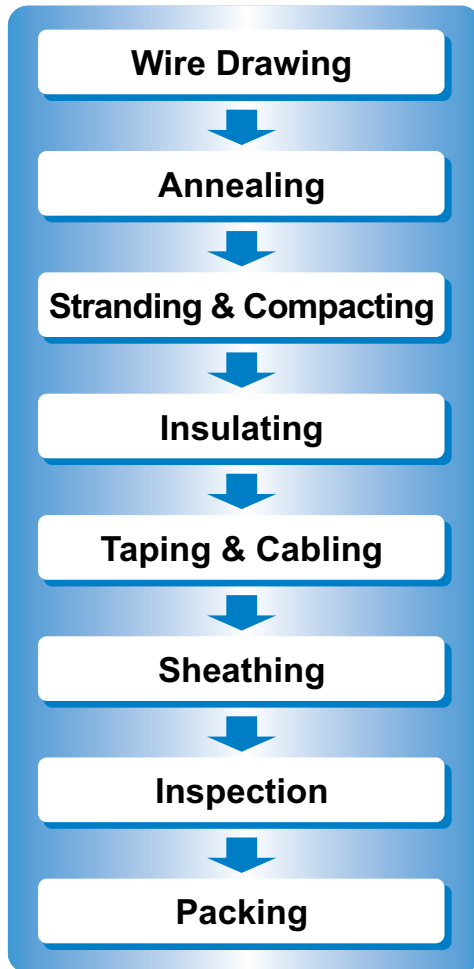
CHARACTERISTICS OF PLASTIC MATERIALS

Item	Plastic Materials	Unfilled cross-Linked Polyethylene	Filled cross-Linked Polyethylene	Polyethylene	PVC compound	Buty1 rubber	Natural rubber
Specific gravity		0.92~0.95	1.0~1.2	0.92~0.95	1.25~1.40	1.4~1.5	1.3~1.7
tensile strength(psi)		2,000~2,600	2,200~2,400	1,700~2,100	1,400~3,500	550~1,100	1,100~2,600
Elongation(%)		400~500	400~450	500~700	100~300	300~600	300~800
Volume resistivity (Ω-cm)		10 ¹⁸	10 ¹⁶	10 ¹⁸	10 ¹² ~10 ¹⁵	10 ¹⁵	10 ¹⁵ ~10 ¹⁶
Dielectric stength(V/mil)		900~1,300	900~1,150	900~1,300	500~900	650~800	650~900
Dielectric constant		2.3	2.9	2.3	5~7	3~4	3~4
Dielectric power factor(%)		0.1~0.3	0.3~0.5	0.02~0.05	4~12	3	3
Softening temp(℃)		-	-	105~115	120	-	-
Weather resistance		P, E*	E	P, E*	E	E	P
Ozone		E	E	E	E	E	P
Resistance to heat aging		E	E	E	F	G	F
Resistance to heat distortion		E	EE	F	F	G	E
Resistance to low temp.		VG	E	VG	F	G	E
Flame retardance		P	P	P	VG	P	P
Oil resistance		VG	EE	VG	E	P	P
Acid resistance		E	E	E	E	E	E
Alkali resistance		E	E	E	E	G	G

Note : *

- Poor for ordinary polyethylene, but excellent for black weather resistant compound.
- The meaning of marks : EE : the most excellent
 VG : very good
 G : good
 E : excellent
 F : fair
 P : poor

MANUFACTURING PROCESS



Wire Rod to formed as the specified wire diameter by drawing machine.

Drawn Wire (Mainly Copper) to be Annealed by Batch or Continuous process.

Wires to be formed as the specified size conductor by stranding and compacting (According to Spec.)

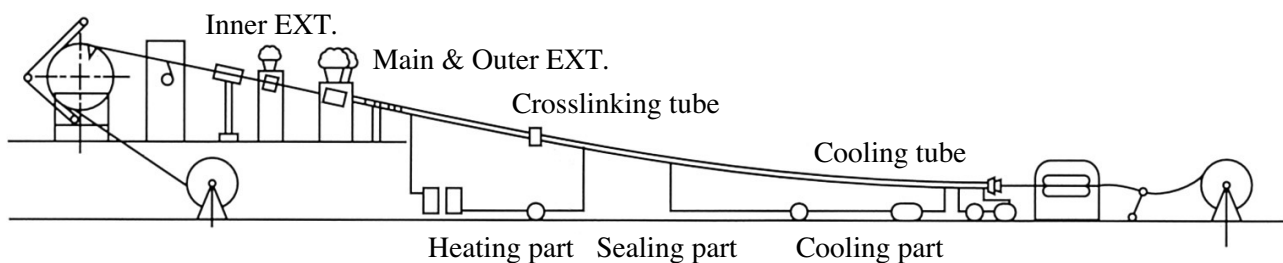
To be insulated with crosslinkable polyethylene, semiconducting compound by tandem extruding and crosslinking by continuous Vulcanization process.

Insulated core to be shielded by taping of conducting materials (semiconducting or copper tape), to be twisted together and filled with appropriate materials.

To be sheathed with the protecting materials (PVC, PE, Rubber etc.) by extruding.

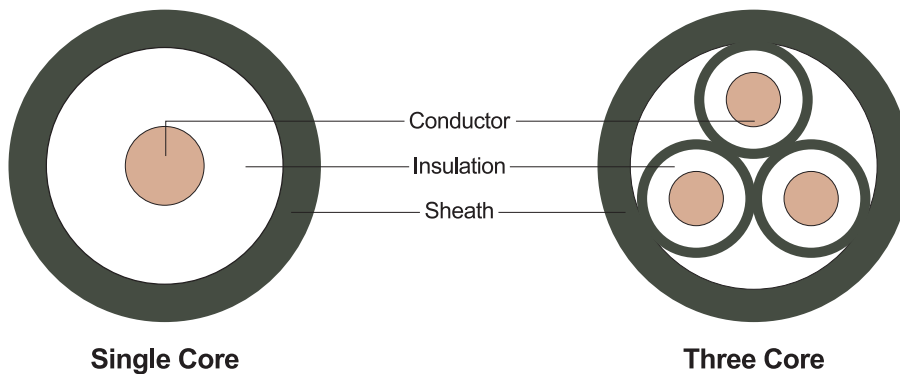
Precisely inspected by Special instruments for Quality Assurance.

3-TANDEM LINE

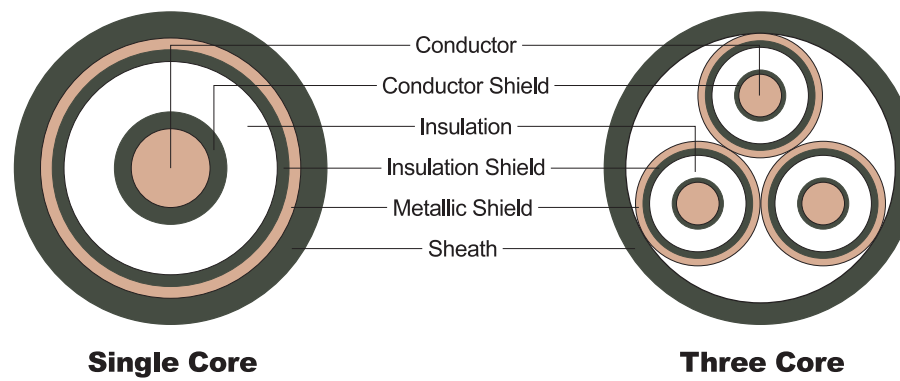


CABLE CONSTRUCTION

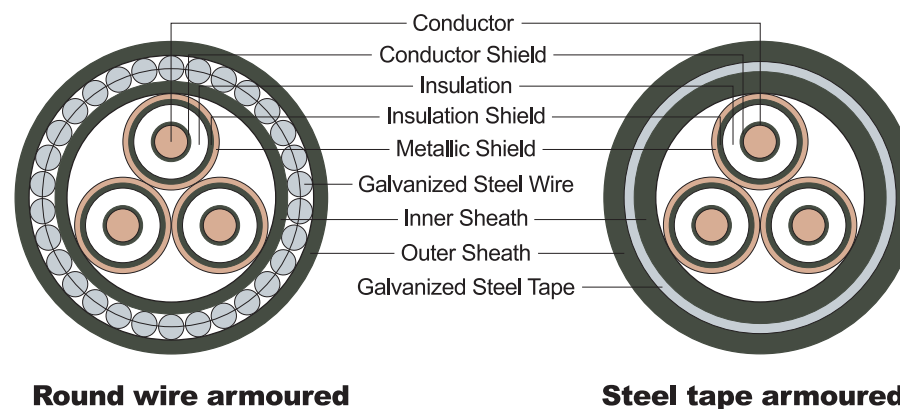
Low Voltage Cable



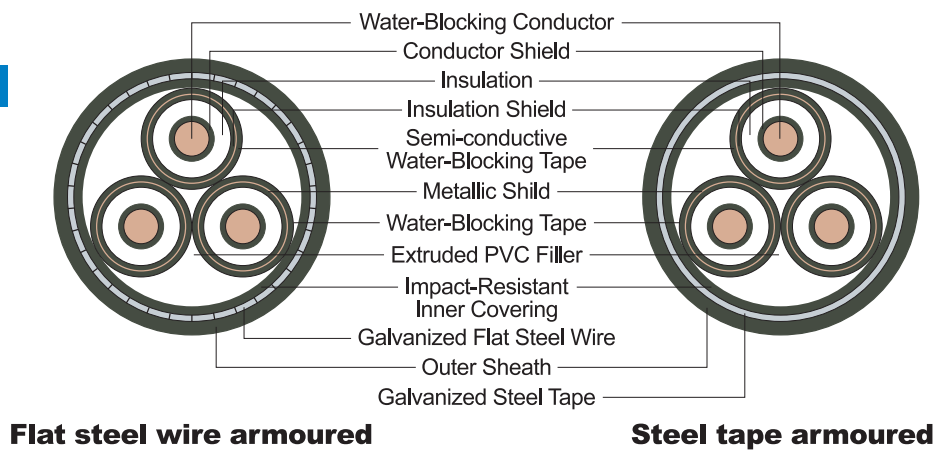
High Voltage Cable



Armoured Cable



Water blocking Cable



0~600V XLPE Insulated and PVC Sheathed Power Cables. (100% and 133% Insulation Level)

(Table 1) Single Core (ICEA S-66-524)

Size (AWG. MCM)	Conductor		Nominal Thick. of Insulation (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (MΩ-1000ft.)	AC Test Voltage (KV/5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)						
14	7/0.615	1.85	0.76	0.38	4.4	34	2,600	3.5
12	7/0.775	2.34	0.76	0.38	4.9	48	2,600	3.5
10	7/0.978	2.95	0.76	0.38	5.5	69	2,500	3.5
8	7/1.23	3.70	1.14	0.38	7.1	108	2,200	5.5
6	7/1.56	4.67	1.14	0.76	8.9	176	1,800	5.5
4	7/1.96	5.88	1.14	0.76	10.1	256	1,500	5.5
2	7/2.47	7.42	1.14	0.76	11.7	381	1,200	5.5
1	19/1.69	8.43	1.40	1.14	14.1	511	1,300	7.0
1/0	19/1.89	9.46	1.40	1.14	15.1	619	1,200	7.0
	C.C.	8.53	1.40	1.14	14.2	611	1,200	7.0
2/0	19/2.13	10.6	1.40	1.14	16.3	762	1,100	7.0
	C.C.	9.55	1.40	1.14	15.2	748	1,100	7.0
3/0	19/2.39	11.9	1.40	1.14	17.6	935	1,000	7.0
	C.C.	10.74	1.40	1.14	16.4	920	1,000	7.0
4/0	19/2.68	13.4	1.40	1.14	19.1	1,150	900	7.0
	C.C.	12.07	1.40	1.14	17.7	1,136	900	7.0
250	37/2.09	14.6	1.65	1.65	22.0	1,418	900	8.0
	C.C.	13.21	1.65	1.65	20.6	1,398	900	8.0
300	37/2.29	16.0	1.65	1.65	23.4	1,669	850	8.0
	C.C.	14.48	1.65	1.65	21.8	1,643	850	8.0
350	37/2.47	17.3	1.65	1.65	24.6	1,912	800	8.0
	C.C.	15.65	1.65	1.65	23.0	1,886	800	8.0
400	37/2.64	18.5	1.65	1.65	25.8	2,158	750	8.0
	C.C.	16.74	1.65	1.65	24.1	2,137	750	8.0
500	37/2.95	20.7	1.65	1.65	28.1	2,652	700	8.0
	C.C.	18.69	1.65	1.65	26.1	2,625	700	8.0
600	61/2.52	22.7	2.03	1.65	31.0	3,213	700	10.0
	C.C.	20.65	2.03	1.65	28.9	3,179	700	10.0
750	61/2.82	25.3	2.03	1.65	33.7	3,959	700	10.0
	C.C.	23.06	2.03	1.65	31.3	3,914	700	10.0
1,000	61/3.25	29.3	2.03	1.65	37.7	5,174	600	10.0
	C.C.	26.92	2.03	1.65	35.3	5,145	600	10.0

C.C.: Compact Round Stranded Conductor

0~600V XLPE Insulated and PVC Sheathed Power Cables. (100% and 133% Insulation Level)

(Table 2) Two Cores (ICEA S-66-524)

Conductor			Nominal Thick. of Insulation (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (MΩ-1000ft.)	AC Test Voltage (KV/5 min.)
Size (AWG. MCM)	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)						
14	7/0.615	1.85	0.76	1.14	9.7	115	2,600	3.5
12	7/0.775	2.34	0.76	1.14	10.7	147	2,600	3.5
10	7/0.978	2.95	0.76	1.14	11.9	204	2,500	3.5
8	7/1.23	3.70	1.14	1.52	16.0	339	2,200	5.5
6	7/1.56	4.67	1.14	1.52	18.0	475	1,800	5.5
4	7/1.96	5.88	1.14	1.52	20.4	656	1,500	5.5
2	7/2.47	7.42	1.14	2.03	24.6	1,016	1,200	5.5
1	19/1.69	8.43	1.40	2.03	27.8	1,274	1,300	7.0
1/0	19/1.89	9.46	1.40	2.03	29.8	1,521	1,200	7.0
	C.C.	8.53	1.40	2.03	28.0	1,476	1,200	7.0
2/0	19/2.13	10.6	1.40	2.03	32.2	1,851	1,100	7.0
	C.C.	9.55	1.40	2.03	30.0	1,783	1,100	7.0
3/0	19/2.39	11.9	1.40	2.03	34.8	2,243	1,000	7.0
	C.C.	10.74	1.40	2.03	32.4	2,171	1,000	7.0
4/0	19/2.68	13.4	1.40	2.03	37.7	2,729	900	7.0
	C.C.	12.07	1.40	2.03	35.1	2,649	900	7.0
250	37/2.09	14.6	1.65	2.03	41.3	3,221	900	8.0
	C.C.	13.21	1.65	2.03	38.5	3,135	900	8.0
300	37/2.29	16.0	1.65	2.79	45.8	3,963	850	8.0
	C.C.	14.48	1.65	2.03	41.0	3,675	850	8.0
350	37/2.47	17.3	1.65	2.79	48.3	4,519	800	8.0
	C.C.	15.65	1.65	2.79	45.0	4,389	800	8.0
400	37/2.64	18.5	1.65	2.79	50.7	5,070	750	8.0
	C.C.	16.74	1.65	2.79	47.2	4,948	750	8.0
500	37/2.95	20.7	1.65	2.79	55.3	6,185	700	8.0
	C.C.	18.69	1.65	2.79	51.3	6,025	700	8.0
600	61/2.52	22.7	2.03	2.79	61.0	7,483	700	10.0
	C.C.	20.65	2.03	2.79	57.0	7,303	700	10.0
750	61/2.82	25.3	2.03	2.79	66.4	9,157	700	10.0
	C.C.	23.06	2.03	2.79	61.8	8,922	700	10.0
1,000	61/3.25	29.3	2.03	2.79	74.4	11,873	600	10.0
	C.C.	26.92	2.03	2.79	69.8	11,662	600	10.0

C.C.: Compact Round Stranded Conductor

0~600V XLPE Insulated and PVC Sheathed Power Cables. (100% and 133% Insulation Level)

(Table 3) Three Cores (ICEA S-66-524)

Size (AWG. MCM)	Conductor		Nominal Thick. of Insulation (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (MΩ-1000ft.)	AC Test Voltage (KV/5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)						
14	7/0.615	1.85	0.76	1.14	10.2	143	2,600	3.5
12	7/0.775	2.34	0.76	1.14	11.3	188	2,600	3.5
10	7/0.978	2.95	0.76	1.14	12.6	264	2,500	3.5
8	7/1.23	3.70	1.14	1.52	17.0	444	2,200	5.5
6	7/1.56	4.67	1.14	1.52	19.1	612	1,800	5.5
4	7/1.96	5.88	1.14	2.03	22.8	936	1,500	5.5
2	7/2.47	7.42	1.14	2.03	26.1	1,354	1,200	5.5
1	19/1.69	8.43	1.40	2.03	29.6	1,704	1,300	7.0
1/0	19/1.89	9.46	1.40	2.03	31.8	2,055	1,200	7.0
	C.C.	8.53	1.40	2.03	29.8	2,006	1,200	7.0
2/0	19/2.13	10.6	1.40	2.03	34.4	2,525	1,100	7.0
	C.C.	9.55	1.40	2.03	32.0	2,449	1,100	7.0
3/0	19/2.39	11.9	1.40	2.03	37.0	3,087	1,000	7.0
	C.C.	10.74	1.40	2.03	34.6	2,995	1,000	7.0
4/0	19/2.68	13.4	1.40	2.03	40.3	3,774	900	7.0
	C.C.	12.07	1.40	2.03	37.4	3,688	900	7.0
250	37/2.09	14.6	1.65	2.79	45.8	4,650	900	8.0
	C.C.	13.21	1.65	2.79	41.1	4,362	900	8.0
300	37/2.29	16.0	1.65	2.79	48.9	5,447	850	8.0
	C.C.	14.48	1.65	2.79	45.6	5,314	850	8.0
350	37/2.47	17.3	1.65	2.79	51.6	6,226	800	8.0
	C.C.	15.65	1.65	2.79	48.0	6,089	800	8.0
400	37/2.64	18.5	1.65	2.79	54.2	7,024	750	8.0
	C.C.	16.74	1.65	2.79	50.4	6,887	750	8.0
500	37/2.95	20.7	1.65	2.79	59.1	8,605	700	8.0
	C.C.	18.69	1.65	2.79	54.9	8,439	700	8.0
600	61/2.52	22.7	2.03	2.79	65.3	10,432	700	10.0
	C.C.	20.65	2.03	2.79	60.9	10,238	700	10.0
750	61/2.82	25.3	2.03	3.56	72.8	13,105	700	10.0
	C.C.	23.06	2.03	3.56	66.1	12,571	700	10.0
1,000	61/3.25	29.3	2.03	3.56	81.4	15,213	600	10.0
	C.C.	26.92	2.03	3.56	76.4	17,022	600	10.0

C.C.: Compact Round Stranded Conductor

0~600V XLPE Insulated and PVC Sheathed Power Cables. (100% and 133% Insulation Level)

(Table 4) Four Cores

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Nominal Thick. of Insulation (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (MΩ-1000ft.)	AC Test Voltage (KV/5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)						
14	7/0.615	1.85	0.76	1.14	11.2	178	2,600	3.5
12	7/0.775	2.34	0.76	1.14	12.3	237	2,600	3.5
10	7/0.978	2.95	0.76	1.14	14.6	355	2,500	3.5
8	7/1.23	3.70	1.14	1.52	18.6	554	2,200	5.5
6	7/1.56	4.67	1.14	1.52	21.0	784	1,800	5.5
4	7/1.96	5.88	1.14	1.52	25.0	1,188	1,500	5.5
2	7/2.47	7.42	1.14	2.03	28.8	1,731	1,200	5.5
1	19/1.69	8.43	1.40	2.03	32.6	2,182	1,300	7.0
1/0	19/1.89	9.46	1.40	2.03	35.1	2,631	1,200	7.0
	C.C.	8.53	1.40	2.03	32.8	2,584	1,200	7.0
2/0	19/2.13	10.6	1.40	2.03	38.0	3,252	1,100	7.0
	C.C.	9.55	1.40	2.03	35.3	3,162	1,100	7.0
3/0	19/2.39	11.9	1.40	2.03	41.1	3,997	1,000	7.0
	C.C.	10.74	1.40	2.03	38.2	3,870	1,000	7.0
4/0	19/2.68	13.4	1.40	2.79	46.3	5,050	900	7.0
	C.C.	12.07	1.40	2.03	41.3	4,786	900	7.0
250	37/2.09	14.6	1.65	2.79	50.6	5,965	900	8.0
	C.C.	13.21	1.65	2.79	47.2	5,862	900	8.0
300	37/2.29	16.0	1.65	2.79	54.0	7,023	850	8.0
	C.C.	14.48	1.65	2.79	50.2	6,885	850	8.0
350	37/2.47	17.3	1.65	2.79	57.1	8,048	800	8.0
	C.C.	15.65	1.65	2.79	53.1	7,902	800	8.0
400	37/2.64	18.5	1.65	2.79	59.9	9,084	750	8.0
	C.C.	16.74	1.65	2.79	55.7	8,953	750	8.0
500	37/2.95	20.7	1.65	2.79	65.4	11,139	700	8.0
	C.C.	18.69	1.65	2.79	60.7	10,968	700	8.0
600	61/2.52	22.7	2.03	3.56	74.0	13,819	700	10.0
	C.C.	20.65	2.03	2.79	67.4	13,303	700	10.0
750	61/2.82	25.3	2.03	3.56	80.6	16,980	700	10.0
	C.C.	23.06	2.03	3.56	75.0	16,662	700	10.0
1,000	61/3.25	29.3	2.03	3.56	90.2	22,092	600	10.0
	C.C.	26.92	2.03	3.56	84.6	21,852	600	10.0

C.C.: Compact Round Stranded Conductor

2,001~5,000V XLPE Insulated and PVC Sheathed Power Cables. (100% and 133% Insulation Level)

(Table 5) Single Core

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
8	7/1.23	3.70	0.15	2.29	0.25	0.1	1.14	12.8	246	3,500	13
6	7/1.56	4.67	0.15	2.29	0.25	0.1	1.52	14.6	340	3,200	13
4	7/1.96	5.88	0.15	2.29	0.25	0.1	1.52	15.8	435	2,700	13
2	7/2.47	7.42	0.15	2.29	0.25	0.1	1.52	17.3	580	2,250	13
1	19/1.69	8.43	0.15	2.29	0.25	0.1	1.52	18.4	685	1,900	13
1/0	19/1.89	9.46	0.15	2.29	0.25	0.1	1.52	19.4	803	1,850	13
	C.C.	8.53	0.15	2.29	0.25	0.1	1.52	18.5	785	1,850	13
2/0	19/2.13	10.6	0.15	2.29	0.25	0.1	1.52	20.6	959	1,700	13
	C.C.	9.55	0.15	2.29	0.25	0.1	1.52	19.5	933	1,700	13
3/0	19/2.39	11.9	0.15	2.29	0.25	0.1	2.03	23.0	1,206	1,500	13
	C.C.	10.74	0.15	2.29	0.25	0.1	2.03	21.8	1,175	1,500	13
4/0	37/2.68	13.4	0.15	2.29	0.25	0.1	2.03	24.4	1,440	1,400	13
	C.C.	12.07	0.15	2.29	0.25	0.1	2.03	23.1	1,408	1,400	13
250	37/2.09	14.6	0.15	2.29	0.25	0.1	2.03	25.7	1,648	1,300	13
	C.C.	13.21	0.15	2.29	0.25	0.1	2.03	24.3	1,615	1,300	13
300	37/2.29	16.0	0.15	2.29	0.25	0.1	2.03	27.1	1,912	1,200	13
	C.C.	14.48	0.15	2.29	0.25	0.1	2.03	25.5	1,872	1,200	13
350	37/2.47	17.3	0.15	2.29	0.25	0.1	2.03	28.3	2,168	1,100	13
	C.C.	15.65	0.15	2.29	0.25	0.1	2.03	26.7	2,126	1,100	13
400	37/2.64	18.5	0.15	2.29	0.25	0.1	2.03	30.0	2,450	1,050	13
	C.C.	16.74	0.15	2.29	0.25	0.1	2.03	27.8	2,388	1,050	13
500	37/2.95	20.7	0.15	2.29	0.25	0.1	2.03	32.1	2,960	950	13
	C.C.	18.69	0.15	2.29	0.25	0.1	2.03	29.7	2,888	950	13
600	61/2.52	22.7	0.15	2.29	0.25	0.1	2.03	34.2	3,503	900	13
	C.C.	20.65	0.15	2.29	0.25	0.1	2.03	31.7	3,424	900	13
750	61/2.82	25.3	0.15	2.29	0.25	0.1	2.03	36.9	4,272	800	13
	C.C.	23.06	0.15	2.29	0.25	0.1	2.03	34.1	4,178	800	13
1,000	61/3.25	29.3	0.15	2.29	0.25	0.1	2.03	40.7	5,513	700	13
	C.C.	26.92	0.15	2.29	0.25	0.1	2.03	38.0	5,433	700	13

C.C.: Compact Round Stranded Conductor

2,001~5,000V XLPE Insulated and PVC Sheathed Power Cables. (100% and 133% Insulation Level)

(Table 6) Three Cores

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
8	7/1.23	3.70	0.15	2.29	0.25	0.1	2.03	26.4	864	3,500	13
6	7/1.56	4.67	0.15	2.29	0.25	0.1	2.03	28.5	1,080	3,200	13
4	7/1.96	5.88	0.15	2.29	0.25	0.1	2.03	31.1	1,382	2,700	13
2	7/2.47	7.42	0.15	2.29	0.25	0.1	2.03	34.4	1,847	2,250	13
1	19/1.69	8.43	0.15	2.29	0.25	0.1	2.03	36.7	2,176	1,900	13
1/0	19/1.89	9.46	0.15	2.29	0.25	0.1	2.03	38.8	2,561	1,850	13
	C.C.	8.53	0.15	2.29	0.25	0.1	2.03	36.8	2,480	1,850	13
2/0	19/2.13	10.6	0.15	2.29	0.25	0.1	2.03	41.4	3,061	1,700	13
	C.C.	9.55	0.15	2.29	0.25	0.1	2.03	39.0	2,955	1,700	13
3/0	19/2.39	11.9	0.15	2.29	0.25	0.1	2.79	45.9	3,835	1,500	13
	C.C.	10.74	0.15	2.29	0.25	0.1	2.79	41.6	3,542	1,500	13
4/0	37/2.68	13.4	0.15	2.29	0.25	0.1	2.79	49.0	4,570	1,400	13
	C.C.	12.07	0.15	2.29	0.25	0.1	2.79	46.2	4,447	1,400	13
250	37/2.09	14.6	0.15	2.29	0.25	0.1	2.79	51.7	5,248	1,300	13
	C.C.	13.21	0.15	2.29	0.25	0.1	2.79	48.6	5,101	1,300	13
300	37/2.29	16.0	0.15	2.29	0.25	0.1	2.79	54.7	6,076	1,200	13
	C.C.	14.48	0.15	2.29	0.25	0.1	2.79	51.3	5,907	1,200	13
350	37/2.47	17.3	0.15	2.29	0.25	0.1	2.79	57.5	6,893	1,100	13
	C.C.	15.65	0.15	2.29	0.25	0.1	2.79	53.9	6,725	1,100	13
400	37/2.64	18.5	0.15	2.29	0.25	0.1	2.79	61.0	7,803	1,050	13
	C.C.	16.74	0.15	2.29	0.25	0.1	2.79	56.3	7,545	1,050	13
500	37/2.95	20.7	0.15	2.29	0.25	0.1	2.79	65.6	9,418	950	13
	C.C.	18.69	0.15	2.29	0.25	0.1	2.79	60.5	9,116	950	13
600	61/2.52	22.7	0.15	2.29	0.25	0.1	2.79	71.7	11,422	900	13
	C.C.	20.65	0.15	2.29	0.25	0.1	2.79	64.7	10,810	900	13
750	61/2.82	25.3	0.15	2.29	0.25	0.1	3.56	77.5	13,888	800	13
	C.C.	23.06	0.15	2.29	0.25	0.1	3.56	71.6	13,466	800	13
1,000	61/3.25	29.3	0.15	2.29	0.25	0.1	3.56	85.9	17,864	700	13
	C.C.	26.92	0.15	2.29	0.25	0.1	3.56	79.9	17,456	700	13

C.C.: Compact Round Stranded Conductor

5,001~8,000V XLPE Insulated and PVC Sheathed Power Cables. (100% Insulation Level)

(Table 7) Single Core

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
6	7/1.56	4.67	0.15	2.92	0.8	0.1	1.52	17.6	433	6,500	18
4	7/1.96	5.88	0.15	2.92	0.8	0.1	1.52	18.8	534	5,000	18
2	7/2.47	7.42	0.15	2.92	0.8	0.1	1.52	20.3	687	4,900	18
1	19/1.69	8.43	0.15	2.92	0.8	0.1	1.52	21.4	796	4,500	18
1/0	19/1.89	9.46	0.15	2.92	0.8	0.1	1.52	22.4	919	4,000	18
	C.C.	8.53	0.15	2.92	0.8	0.1	1.52	21.4	897	4,000	18
2/0	19/2.13	10.6	0.15	2.92	0.8	0.1	2.03	24.7	1,147	3,700	18
	C.C.	9.55	0.15	2.92	0.8	0.1	2.03	23.6	1,112	3,700	18
3/0	19/2.39	11.9	0.15	2.92	0.8	0.1	2.03	26.0	1,343	3,400	18
	C.C.	10.74	0.15	2.92	0.8	0.1	2.03	24.8	1,306	3,400	18
4/0	37/2.68	13.4	0.15	2.92	0.8	0.1	2.03	27.4	1,584	3,100	18
	C.C.	12.07	0.15	2.92	0.8	0.1	2.03	26.1	1,546	3,100	18
250	37/2.09	14.6	0.15	2.92	0.8	0.1	2.03	28.7	1,798	2,900	18
	C.C.	13.21	0.15	2.92	0.8	0.1	2.03	27.2	1,758	2,900	18
300	37/2.29	16.0	0.15	2.92	0.8	0.1	2.03	30.1	2,069	2,600	18
	C.C.	14.48	0.15	2.92	0.8	0.1	2.03	28.5	2,021	2,600	18
350	37/2.47	17.3	0.15	2.92	0.8	0.1	2.03	31.3	2,331	2,500	18
	C.C.	15.65	0.15	2.92	0.8	0.1	2.03	29.7	2,282	2,500	18
400	37/2.64	18.5	0.15	2.92	0.8	0.1	2.03	32.9	2,621	2,300	18
	C.C.	16.74	0.15	2.92	0.8	0.1	2.03	30.8	2,549	2,300	18
500	37/2.95	20.7	0.15	2.92	0.8	0.1	2.03	35.1	3,142	2,100	18
	C.C.	18.69	0.15	2.92	0.8	0.1	2.03	32.7	3,058	2,100	18
600	61/2.52	22.7	0.15	2.92	0.8	0.1	2.03	37.1	3,695	2,000	18
	C.C.	20.65	0.15	2.92	0.8	0.1	2.03	34.7	3,604	2,000	18
750	61/2.82	25.3	0.15	2.92	0.8	0.1	2.03	39.9	4,479	1,800	18
	C.C.	23.06	0.15	2.92	0.8	0.1	2.03	37.1	4,369	1,800	18
1,000	61/3.25	29.3	0.15	2.92	0.8	0.1	2.03	43.8	5,743	1,500	18
	C.C.	26.92	0.15	2.92	0.8	0.1	2.03	41.1	5,651	1,500	18

C.C.: Compact Round Stranded Conductor

5,001~8,000V XLPE Insulated and PVC Sheathed Power Cables. (100% Insulation Level)

(Table 8) Three Cores

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
6	7/1.56	4.67	0.15	2.92	0.8	0.1	2.03	35.0	1,400	6,500	18
4	7/1.96	5.88	0.15	2.92	0.8	0.1	2.03	37.6	1,734	5,000	18
2	7/2.47	7.42	0.15	2.92	0.8	0.1	2.03	40.9	2,224	4,900	18
1	19/1.69	8.43	0.15	2.92	0.8	0.1	2.79	44.8	2,760	4,500	18
1/0	19/1.89	9.46	0.15	2.92	0.8	0.1	2.79	46.9	3,154	4,000	18
	C.C.	8.53	0.15	2.92	0.8	0.1	2.79	45.0	3,065	4,000	18
2/0	19/2.13	10.6	0.15	2.92	0.8	0.1	2.79	49.5	3,696	3,700	18
	C.C.	9.55	0.15	2.92	0.8	0.1	2.79	47.2	3,565	3,700	18
3/0	19/2.39	11.9	0.15	2.92	0.8	0.1	2.79	52.4	4,323	3,400	18
	C.C.	10.74	0.15	2.92	0.8	0.1	2.79	49.7	4,179	3,400	18
4/0	37/2.68	13.4	0.15	2.92	0.8	0.1	2.79	55.5	5,094	3,100	18
	C.C.	12.07	0.15	2.92	0.8	0.1	2.79	52.6	4,937	3,100	18
250	37/2.09	14.6	0.15	2.92	0.8	0.1	2.79	58.2	5,786	2,900	18
	C.C.	13.21	0.15	2.92	0.8	0.1	2.79	55.1	5,622	2,900	18
300	37/2.29	16.0	0.15	2.92	0.8	0.1	2.79	61.2	6,649	2,600	18
	C.C.	14.48	0.15	2.92	0.8	0.1	2.79	57.8	6,447	2,600	18
350	37/2.47	17.3	0.15	2.92	0.8	0.1	2.79	63.9	7,484	2,500	18
	C.C.	15.65	0.15	2.92	0.8	0.1	2.79	60.4	7,278	2,500	18
400	37/2.64	18.5	0.15	2.92	0.8	0.1	2.79	67.4	8,419	2,300	18
	C.C.	16.74	0.15	2.92	0.8	0.1	2.79	62.7	8,129	2,300	18
500	37/2.95	20.7	0.15	2.92	0.8	0.1	3.56	73.8	10,381	2,100	18
	C.C.	18.69	0.15	2.92	0.8	0.1	2.79	66.9	9,742	2,100	18
600	61/2.52	22.7	0.15	2.92	0.8	0.1	3.56	78.2	12,155	2,000	18
	C.C.	20.65	0.15	2.92	0.8	0.1	3.56	72.8	11,763	2,000	18
750	61/2.82	25.3	0.15	2.92	0.8	0.1	3.56	84.0	14,662	1,800	18
	C.C.	23.06	0.15	2.92	0.8	0.1	3.56	78.0	14,199	1,800	18
1,000	61/3.25	29.3	0.15	2.92	0.8	0.1	3.56	92.5	18,742	1,500	18
	C.C.	26.92	0.15	2.92	0.8	0.1	3.56	86.5	18,280	1,500	18

C.C.: Compact Round Stranded Conductor

5,001~8,000V XLPE Insulated and PVC Sheathed Power Cables. (133% Insulation Level)

(Table 9) Single Core

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
6	7/1.56	4.67	0.15	3.56	0.8	0.1	1.52	19.0	479	7,000	22
4	7/1.96	5.88	0.15	3.56	0.8	0.1	1.52	20.2	583	6,500	22
2	7/2.47	7.42	0.15	3.56	0.8	0.1	1.52	24.7	739	6,000	22
1	19/1.69	8.43	0.15	3.56	0.8	0.1	2.03	23.9	914	5,000	22
1/0	19/1.89	9.46	0.15	3.56	0.8	0.1	2.03	24.9	1,042	4,800	22
	C.C.	8.53	0.15	3.56	0.8	0.1	2.03	24.0	1,015	4,800	22
2/0	19/2.13	10.6	0.15	3.56	0.8	0.1	2.03	26.1	1,209	4,200	22
	C.C.	9.55	0.15	3.56	0.8	0.1	2.03	25.0	1,173	4,200	22
3/0	19/2.39	11.9	0.15	3.56	0.8	0.1	2.03	27.4	1,408	3,900	22
	C.C.	10.74	0.15	3.56	0.8	0.1	2.03	26.2	1,369	3,900	22
4/0	37/2.68	13.4	0.15	3.56	0.8	0.1	2.03	28.8	1,652	3,600	22
	C.C.	12.07	0.15	3.56	0.8	0.1	2.03	27.5	1,611	3,600	22
250	37/2.09	14.6	0.15	3.56	0.8	0.1	2.03	30.1	1,869	3,300	22
	C.C.	13.21	0.15	3.56	0.8	0.1	2.03	28.6	1,826	3,300	22
300	37/2.29	16.0	0.15	3.56	0.8	0.1	2.03	31.5	2,143	3,100	22
	C.C.	14.48	0.15	3.56	0.8	0.1	2.03	29.9	2,092	3,100	22
350	37/2.47	17.3	0.15	3.56	0.8	0.1	2.03	32.7	2,408	2,900	22
	C.C.	15.65	0.15	3.56	0.8	0.1	2.03	31.1	2,354	2,900	22
400	37/2.64	18.5	0.15	3.56	0.8	0.1	2.03	34.4	2,701	2,700	22
	C.C.	16.74	0.15	3.56	0.8	0.1	2.03	32.2	2,624	2,700	22
500	37/2.95	20.7	0.15	3.56	0.8	0.1	2.03	36.5	3,226	2,500	22
	C.C.	18.69	0.15	3.56	0.8	0.1	2.03	34.1	3,137	2,500	22
600	61/2.52	22.7	0.15	3.56	0.8	0.1	2.03	38.6	3,783	2,300	22
	C.C.	20.65	0.15	3.56	0.8	0.1	2.03	36.1	3,687	2,300	22
750	61/2.82	25.3	0.15	3.56	0.8	0.1	2.03	41.4	4,578	2,000	22
	C.C.	23.06	0.15	3.56	0.8	0.1	2.03	38.5	4,457	2,000	22
1,000	61/3.25	29.3	0.15	3.56	0.8	0.1	2.79	46.9	6,033	1,800	22
	C.C.	26.92	0.15	3.56	0.8	0.1	2.79	44.1	5,922	1,800	22

C.C.: Compact Round Stranded Conductor

5,001~8,000V XLPE Insulated and PVC Sheathed Power Cables. (133% Insulation Level)

(Table 10) Three Cores

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
6	7/1.56	4.67	0.15	3.56	0.8	0.1	2.03	38.0	1,568	7,000	22
4	7/1.96	5.88	0.15	3.56	0.8	0.1	2.03	40.6	1,910	6,500	22
2	7/2.47	7.42	0.15	3.56	0.8	0.1	2.79	45.6	2,589	6,000	22
1	19/1.69	8.43	0.15	3.56	0.8	0.1	2.79	47.8	2,964	5,000	22
1/0	19/1.89	9.46	0.15	3.56	0.8	0.1	2.79	50.0	3,378	4,800	22
	C.C.	8.53	0.15	3.56	0.8	0.1	2.79	48.0	3,269	4,800	22
2/0	19/2.13	10.6	0.15	3.56	0.8	0.1	2.79	52.6	3,917	4,200	22
	C.C.	9.55	0.15	3.56	0.8	0.1	2.79	50.2	3,775	4,200	22
3/0	19/2.39	11.9	0.15	3.56	0.8	0.1	2.79	55.4	4,562	3,900	22
	C.C.	10.74	0.15	3.56	0.8	0.1	2.79	52.8	4,415	3,900	22
4/0	37/2.68	13.4	0.15	3.56	0.8	0.1	2.79	58.5	5,342	3,600	22
	C.C.	12.07	0.15	3.56	0.8	0.1	2.79	55.7	5,177	3,600	22
250	37/2.09	14.6	0.15	3.56	0.8	0.1	2.79	61.2	6,041	3,300	22
	C.C.	13.21	0.15	3.56	0.8	0.1	2.79	58.1	5,869	3,300	22
300	37/2.29	16.0	0.15	3.56	0.8	0.1	2.79	64.2	6,913	3,100	22
	C.C.	14.48	0.15	3.56	0.8	0.1	2.79	60.9	6,716	3,100	22
350	37/2.47	17.3	0.15	3.56	0.8	0.1	2.79	66.9	7,771	2,900	22
	C.C.	15.65	0.15	3.56	0.8	0.1	2.79	63.4	7,540	2,900	22
400	37/2.64	18.5	0.15	3.56	0.8	0.1	3.56	72.1	9,009	2,700	22
	C.C.	16.74	0.15	3.56	0.8	0.1	2.79	65.7	8,398	2,700	22
500	37/2.95	20.7	0.15	3.56	0.8	0.1	3.56	76.8	10,701	2,500	22
	C.C.	18.69	0.15	3.56	0.8	0.1	2.79	69.9	10,023	2,500	22
600	61/2.52	22.7	0.15	3.56	0.8	0.1	3.56	81.2	12,490	2,300	22
	C.C.	20.65	0.15	3.56	0.8	0.1	3.56	75.9	12,081	2,300	22
750	61/2.82	25.3	0.15	3.56	0.8	0.1	3.56	87.2	15,047	2,000	22
	C.C.	23.06	0.15	3.56	0.8	0.1	3.56	81.1	14,533	2,000	22
1,000	61/3.25	29.3	0.15	3.56	0.8	0.1	3.56	95.5	19,135	1,800	22
	C.C.	26.92	0.15	3.56	0.8	0.1	3.56	89.6	18,653	1,800	22

C.C.: Compact Round Stranded Conductor

8,001~15,000V XLPE Insulated and PVC Sheathed Power Cables. (100% Insulation Level)

(Table 11) Single Core

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
2	7/2.47	7.42	1.0	4.45	0.8	0.1	2.03	24.8	882	5,500	27
1	19/1.69	8.43	1.0	4.45	0.8	0.1	2.03	25.8	999	5,100	27
1/0	19/1.89	9.46	1.0	4.45	0.8	0.1	2.03	26.8	1,130	4,800	27
	C.C.	8.53	1.0	4.45	0.8	0.1	2.03	25.9	1,101	4,800	27
2/0	19/2.13	10.6	1.0	4.45	0.8	0.1	2.03	28.0	1,301	4,400	27
	C.C.	9.55	1.0	4.45	0.8	0.1	2.03	26.9	1,261	4,400	27
3/0	19/2.39	11.9	1.0	4.45	0.8	0.1	2.03	29.3	1,504	4,100	27
	C.C.	10.74	1.0	4.45	0.8	0.1	2.03	28.1	1,461	4,100	27
4/0	37/2.68	13.4	1.0	4.45	0.8	0.1	2.03	30.8	1,751	3,800	27
	C.C.	12.07	1.0	4.45	0.8	0.1	2.03	29.5	1,707	3,800	27
250	37/2.09	14.6	1.0	4.45	0.8	0.1	2.03	32.0	1,972	3,600	27
	C.C.	13.21	1.0	4.45	0.8	0.1	2.03	30.6	1,925	3,600	27
300	37/2.29	16.0	1.0	4.45	0.8	0.1	2.03	33.4	2,250	3,400	27
	C.C.	14.48	1.0	4.45	0.8	0.1	2.03	31.9	2,194	3,400	27
350	37/2.47	17.3	1.0	4.45	0.8	0.1	2.03	34.7	2,518	3,200	27
	C.C.	15.65	1.0	4.45	0.8	0.1	2.03	33.0	2,460	3,200	27
400	37/2.64	18.5	1.0	4.45	0.8	0.1	2.03	36.3	2,816	3,000	27
	C.C.	16.74	1.0	4.45	0.8	0.1	2.03	34.1	2,733	3,000	27
500	37/2.95	20.7	1.0	4.45	0.8	0.1	2.03	38.5	3,347	2,800	27
	C.C.	18.69	1.0	4.45	0.8	0.1	2.03	36.1	3,252	2,800	27
600	61/2.52	22.7	1.0	4.45	0.8	0.1	2.03	40.5	3,911	2,600	27
	C.C.	20.65	1.0	4.45	0.8	0.1	2.03	38.0	3,807	2,600	27
750	61/2.82	25.3	1.0	4.45	0.8	0.1	2.03	43.3	4,713	2,400	27
	C.C.	23.06	1.0	4.45	0.8	0.1	2.03	40.5	4,585	2,400	27
1,000	61/3.25	29.3	1.0	4.45	0.8	0.1	2.79	48.9	6,187	2,100	27
	C.C.	26.92	1.0	4.45	0.8	0.1	2.79	46.1	6,068	2,100	27

C.C.: Compact Round Stranded Conductor

8,001~15,000V XLPE Insulated and PVC Sheathed Power Cables. (100% Insulation Level)

(Table 12) Three Cores

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
2	7/2.47	7.42	1.0	4.45	0.8	0.1	2.79	49.8	2,895	5,500	27
1	19/1.69	8.43	1.0	4.45	0.8	0.1	2.79	52.1	3,282	5,100	27
1/0	19/1.89	9.46	1.0	4.45	0.8	0.1	2.79	54.3	3,705	4,800	27
	C.C.	8.53	1.0	4.45	0.8	0.1	2.79	52.3	3,589	4,800	27
2/0	19/2.13	10.6	1.0	4.45	0.8	0.1	2.79	56.8	4,251	4,400	27
	C.C.	9.55	1.0	4.45	0.8	0.1	2.79	54.5	4,104	4,400	27
3/0	19/2.39	11.9	1.0	4.45	0.8	0.1	2.79	59.6	4,907	4,100	27
	C.C.	10.74	1.0	4.45	0.8	0.1	2.79	57.0	4,750	4,100	27
4/0	37/2.68	13.4	1.0	4.45	0.8	0.1	2.79	62.8	5,713	3,800	27
	C.C.	12.07	1.0	4.45	0.8	0.1	2.79	59.9	5,537	3,800	27
250	37/2.09	14.6	1.0	4.45	0.8	0.1	2.79	65.4	6,423	3,600	27
	C.C.	13.21	1.0	4.45	0.8	0.1	2.79	62.4	6,225	3,600	27
300	37/2.29	16.0	1.0	4.45	0.8	0.1	2.79	68.4	7,307	3,400	27
	C.C.	14.48	1.0	4.45	0.8	0.1	2.79	65.1	7,083	3,400	27
350	37/2.47	17.3	1.0	4.45	0.8	0.1	3.56	72.8	8,471	3,200	27
	C.C.	15.65	1.0	4.45	0.8	0.1	2.79	67.6	7,930	3,200	27
400	37/2.64	18.5	1.0	4.45	0.8	0.1	3.56	76.4	9,458	3,000	27
	C.C.	16.74	1.0	4.45	0.8	0.1	3.56	71.7	9,088	3,000	27
500	37/2.95	20.7	1.0	4.45	0.8	0.1	3.56	81.0	11,170	2,800	27
	C.C.	18.69	1.0	4.45	0.8	0.1	3.56	75.9	10,762	2,800	27
600	61/2.52	22.7	1.0	4.45	0.8	0.1	3.56	85.4	12,990	2,600	27
	C.C.	20.65	1.0	4.45	0.8	0.1	3.56	80.1	12,546	2,600	27
750	61/2.82	25.3	1.0	4.45	0.8	0.1	3.56	91.4	15,571	2,400	27
	C.C.	23.06	1.0	4.45	0.8	0.1	3.56	85.3	15,019	2,400	27
1,000	61/3.25	29.3	1.0	4.45	0.8	0.1	3.56	99.7	19,705	2,100	27
	C.C.	26.92	1.0	4.45	0.8	0.1	3.56	93.8	19,186	2,100	27

C.C.: Compact Round Stranded Conductor

8,001~15,000V XLPE Insulated and PVC Sheathed Power Cables. (133% Insulation Level)

(Table 13) Single Core

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
1	19/1.69	8.43	1.0	5.46	0.8	0.1	2.03	28.1	1,103	6,000	33
1/0	19/1.89	9.46	1.0	5.46	0.8	0.1	2.03	29.1	1,237	5,600	33
	C.C.	8.53	1.0	5.46	0.8	0.1	2.03	28.1	1,205	5,600	33
2/0	19/2.13	10.6	1.0	5.46	0.8	0.1	2.03	30.3	1,412	5,200	33
	C.C.	9.55	1.0	5.46	0.8	0.1	2.03	29.2	1,369	5,200	33
3/0	19/2.39	11.9	1.0	5.46	0.8	0.1	2.03	31.6	1,619	4,800	33
	C.C.	10.74	1.0	5.46	0.8	0.1	2.03	30.4	1,572	4,800	33
4/0	37/2.68	13.4	1.0	5.46	0.8	0.1	2.03	33.0	1,871	4,500	33
	C.C.	12.07	1.0	5.46	0.8	0.1	2.03	31.7	1,822	4,500	33
250	37/2.09	14.6	1.0	5.46	0.8	0.1	2.03	34.2	2,096	4,200	33
	C.C.	13.21	1.0	5.46	0.8	0.1	2.03	32.8	2,044	4,200	33
300	37/2.29	16.0	1.0	5.46	0.8	0.1	2.03	35.6	2,378	4,000	33
	C.C.	14.48	1.0	5.46	0.8	0.1	2.03	34.1	2,317	4,000	33
350	37/2.47	17.3	1.0	5.46	0.8	0.1	2.03	36.9	2,650	3,800	33
	C.C.	15.65	1.0	5.46	0.8	0.1	2.03	35.3	2,587	3,800	33
400	37/2.64	18.5	1.0	5.46	0.8	0.1	2.03	38.5	2,954	3,600	33
	C.C.	16.74	1.0	5.46	0.8	0.1	2.03	36.4	2,863	3,600	33
500	37/2.95	20.7	1.0	5.46	0.8	0.1	2.03	40.8	3,499	3,300	33
	C.C.	18.69	1.0	5.46	0.8	0.1	2.03	38.3	3,388	3,300	33
600	61/2.52	22.7	1.0	5.46	0.8	0.1	2.03	42.8	4,068	3,100	33
	C.C.	20.65	1.0	5.46	0.8	0.1	2.03	40.3	3,951	3,100	33
750	61/2.82	25.3	1.0	5.46	0.8	0.1	2.79	47.2	5,061	2,800	33
	C.C.	23.06	1.0	5.46	0.8	0.1	2.79	44.5	4,919	2,800	33
1,000	61/3.25	29.3	1.0	5.46	0.8	0.1	2.79	51.1	6,368	2,500	33
	C.C.	26.92	1.0	5.46	0.8	0.1	2.79	48.3	6,240	2,500	33

C.C.: Compact Round Stranded Conductor

8,001~15,000V XLPE Insulated and PVC Sheathed Power Cables. (133% Insulation Level)

(Table 14) Three Cores

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
1	19/1.69	8.43	1.0	5.46	0.8	0.1	2.79	56.9	3,652	6,000	33
1/0	19/1.89	9.46	1.0	5.46	0.8	0.1	2.79	59.0	4,099	5,600	33
	C.C.	8.53	1.0	5.46	0.8	0.1	2.79	57.1	3,974	5,600	33
2/0	19/2.13	10.6	1.0	5.46	0.8	0.1	2.79	61.6	4,656	5,200	33
	C.C.	9.55	1.0	5.46	0.8	0.1	2.79	59.3	4,498	5,200	33
3/0	19/2.39	11.9	1.0	5.46	0.8	0.1	2.79	64.4	5,339	4,800	33
	C.C.	10.74	1.0	5.46	0.8	0.1	2.79	61.8	5,156	4,800	33
4/0	37/2.68	13.4	1.0	5.46	0.8	0.1	2.79	67.6	6,146	4,500	33
	C.C.	12.07	1.0	5.46	0.8	0.1	2.79	64.7	5,956	4,500	33
250	37/2.09	14.6	1.0	5.46	0.8	0.1	3.56	71.9	7,173	4,200	33
	C.C.	13.21	1.0	5.46	0.8	0.1	2.79	67.1	6,669	4,200	33
300	37/2.29	16.0	1.0	5.46	0.8	0.1	3.56	74.9	8,097	4,000	33
	C.C.	14.48	1.0	5.46	0.8	0.1	2.79	69.9	7,536	4,000	33
350	37/2.47	17.3	1.0	5.46	0.8	0.1	3.56	77.6	8,974	3,800	33
	C.C.	15.65	1.0	5.46	0.8	0.1	3.56	74.1	8,699	3,800	33
400	37/2.64	18.5	1.0	5.46	0.8	0.1	3.56	81.1	9,977	3,600	33
	C.C.	16.74	1.0	5.46	0.8	0.1	3.56	76.4	9,601	3,600	33
500	37/2.95	20.7	1.0	5.46	0.8	0.1	3.56	86.0	11,758	3,300	33
	C.C.	18.69	1.0	5.46	0.8	0.1	3.56	80.6	11,293	3,300	33
600	61/2.52	22.7	1.0	5.46	0.8	0.1	3.56	90.4	13,599	3,100	33
	C.C.	20.65	1.0	5.46	0.8	0.1	3.56	84.9	13,096	3,100	33
750	61/2.82	25.3	1.0	5.46	0.8	0.1	3.56	96.2	16,187	2,800	33
	C.C.	23.06	1.0	5.46	0.8	0.1	3.56	90.2	15,627	2,800	33
1,000	61/3.25	29.3	1.0	5.46	0.8	0.1	3.56	104.5	20,372	2,500	33
	C.C.	26.92	1.0	5.46	0.8	0.1	3.56	98.6	19,827	2,500	33

C.C.: Compact Round Stranded Conductor

15,001~25,000V XLPE Insulated and PVC Sheathed Power Cables. (100% Insulation Level)

(Table 15) Single Core

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
1	19/1.69	8.43	1.0	6.6	0.8	0.1	2.03	30.6	1,229	6,900	38
1/0	19/1.89	9.46	1.0	6.6	0.8	0.1	2.03	31.6	1,366	6,400	38
	C.C.	8.53	1.0	6.6	0.8	0.1	2.03	30.7	1,331	6,400	38
2/0	19/2.13	10.6	1.0	6.6	0.8	0.1	2.03	32.8	1,546	6,000	38
	C.C.	9.55	1.0	6.6	0.8	0.1	2.03	31.7	1,499	6,000	38
3/0	19/2.39	11.9	1.0	6.6	0.8	0.1	2.03	34.1	1,757	5,600	38
	C.C.	10.74	1.0	6.6	0.8	0.1	2.03	32.9	1,706	5,600	38
4/0	37/2.68	13.4	1.0	6.6	0.8	0.1	2.03	35.5	2,015	5,200	38
	C.C.	12.07	1.0	6.6	0.8	0.1	2.03	34.2	1,961	5,200	38
250	37/2.09	14.6	1.0	6.6	0.8	0.1	2.03	36.8	2,244	4,900	38
	C.C.	13.21	1.0	6.6	0.8	0.1	2.03	35.3	2,187	4,900	38
300	37/2.29	16.0	1.0	6.6	0.8	0.1	2.03	38.2	2,531	4,600	38
	C.C.	14.48	1.0	6.6	0.8	0.1	2.03	36.6	2,465	4,600	38
350	37/2.47	17.3	1.0	6.6	0.8	0.1	2.03	39.4	2,808	4,400	38
	C.C.	15.65	1.0	6.6	0.8	0.1	2.03	37.8	2,739	4,400	38
400	37/2.64	18.5	1.0	6.6	0.8	0.1	2.03	41.1	3,125	4,200	38
	C.C.	16.74	1.0	6.6	0.8	0.1	2.03	38.9	3,019	4,200	38
500	37/2.95	20.7	1.0	6.6	0.8	0.1	2.03	43.3	3,671	3,900	38
	C.C.	18.69	1.0	6.6	0.8	0.1	2.03	40.9	3,559	3,900	38
600	61/2.52	22.7	1.0	6.6	0.8	0.1	2.79	47.0	4,435	3,600	38
	C.C.	20.65	1.0	6.6	0.8	0.1	2.79	44.5	4,305	3,600	38
750	61/2.82	25.3	1.0	6.6	0.8	0.1	2.79	49.7	5,260	3,300	38
	C.C.	23.06	1.0	6.6	0.8	0.1	2.79	47.0	5,108	3,300	38
1,000	61/3.25	29.3	1.0	6.6	0.8	0.1	2.79	53.9	6,609	2,900	38
	C.C.	26.92	1.0	6.6	0.8	0.1	2.79	50.8	6,444	2,900	38

C.C.: Compact Round Stranded Conductor

15,001~25,000V XLPE Insulated and PVC Sheathed Power Cables. (100% Insulation Level)

(Table 16) Three Cores

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
1	19/1.69	8.43	1.0	6.6	0.8	0.1	2.79	62.3	4,117	6,900	38
1/0	19/1.89	9.46	1.0	6.6	0.8	0.1	2.79	64.4	4,575	6,400	38
	C.C.	8.53	1.0	6.6	0.8	0.1	2.79	62.5	4,425	6,400	38
2/0	19/2.13	10.6	1.0	6.6	0.8	0.1	2.79	67.0	5,159	6,000	38
	C.C.	9.55	1.0	6.6	0.8	0.1	2.79	64.7	4,975	6,000	38
3/0	19/2.39	11.9	1.0	6.6	0.8	0.1	3.56	71.5	6,132	5,600	38
	C.C.	10.74	1.0	6.6	0.8	0.1	3.56	67.2	5,646	5,600	38
4/0	37/2.68	13.4	1.0	6.6	0.8	0.1	3.56	74.7	6,981	5,200	38
	C.C.	12.07	1.0	6.6	0.8	0.1	3.56	71.8	6,765	5,200	38
250	37/2.09	14.6	1.0	6.6	0.8	0.1	3.56	77.3	7,742	4,900	38
	C.C.	13.21	1.0	6.6	0.8	0.1	3.56	74.2	7,501	4,900	38
300	37/2.29	16.0	1.0	6.6	0.8	0.1	3.56	80.3	8,681	4,600	38
	C.C.	14.48	1.0	6.6	0.8	0.1	3.56	77.0	8,396	4,600	38
350	37/2.47	17.3	1.0	6.6	0.8	0.1	3.56	83.0	9,587	4,400	38
	C.C.	15.65	1.0	6.6	0.8	0.1	3.56	79.5	9,236	4,400	38
400	37/2.64	18.5	1.0	6.6	0.8	0.1	3.56	86.7	10,640	4,200	38
	C.C.	16.74	1.0	6.6	0.8	0.1	3.56	81.8	10,193	4,200	38
500	37/2.95	20.7	1.0	6.6	0.8	0.1	3.56	91.4	12,413	3,900	38
	C.C.	18.69	1.0	6.6	0.8	0.1	3.56	86.2	11,940	3,900	38
600	61/2.52	22.7	1.0	6.6	0.8	0.1	3.56	95.8	16,290	3,600	38
	C.C.	20.65	1.0	6.6	0.8	0.1	3.56	90.5	13,779	3,600	38
750	61/2.82	25.3	1.0	6.6	0.8	0.1	3.56	101.6	16,922	3,300	38
	C.C.	23.06	1.0	6.6	0.8	0.1	3.56	95.6	16,317	3,300	38
1,000	61/3.25	29.3	1.0	6.6	0.8	0.1	3.56	110.5	21,248	2,900	38
	C.C.	26.92	1.0	6.6	0.8	0.1	3.56	104.0	20,575	2,900	38

C.C.: Compact Round Stranded Conductor

15,001~25,000V XLPE Insulated and PVC Sheathed Power Cables. (133% Insulation Level)

(Table 17) Single Core

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
1	19/1.69	8.43	1.0	8.76	0.8	0.1	2.03	35.3	1,492	8,000	49
1/0	19/1.89	9.46	1.0	8.76	0.8	0.1	2.03	36.3	1,637	7,700	49
	C.C.	8.53	1.0	8.76	0.8	0.1	2.03	35.4	1,595	7,700	49
2/0	19/2.13	10.6	1.0	8.76	0.8	0.1	2.03	37.5	1,824	7,300	49
	C.C.	9.55	1.0	8.76	0.8	0.1	2.03	36.4	1,769	7,300	49
3/0	19/2.39	11.9	1.0	8.76	0.8	0.1	2.03	38.8	2,045	6,800	49
	C.C.	10.74	1.0	8.76	0.8	0.1	2.03	37.6	1,985	6,800	49
4/0	37/2.68	13.4	1.0	8.76	0.8	0.1	2.03	40.3	2,313	6,400	49
	C.C.	12.07	1.0	8.76	0.8	0.1	2.03	38.9	2,249	6,400	49
250	37/2.09	14.6	1.0	8.76	0.8	0.1	2.03	41.6	2,557	6,000	49
	C.C.	13.21	1.0	8.76	0.8	0.1	2.03	40.1	2,484	6,000	49
300	37/2.29	16.0	1.0	8.76	0.8	0.1	2.03	43.0	2,854	5,700	49
	C.C.	14.48	1.0	8.76	0.8	0.1	2.03	41.5	2,777	5,700	49
350	37/2.47	17.3	1.0	8.76	0.8	0.1	2.03	44.3	3,140	5,400	49
	C.C.	15.65	1.0	8.76	0.8	0.1	2.03	42.6	3,059	5,400	49
400	37/2.64	18.5	1.0	8.76	0.8	0.1	2.79	47.6	3,650	5,200	49
	C.C.	16.74	1.0	8.76	0.8	0.1	2.79	45.4	3,527	5,200	49
500	37/2.95	20.7	1.0	8.76	0.8	0.1	2.79	49.7	4,220	4,800	49
	C.C.	18.69	1.0	8.76	0.8	0.1	2.79	47.3	4,081	4,800	49
600	61/2.52	22.7	1.0	8.76	0.8	0.1	2.79	51.8	4,823	4,500	49
	C.C.	20.65	1.0	8.76	0.8	0.1	2.79	49.3	4,672	4,500	49
750	61/2.82	25.3	1.0	8.76	0.8	0.1	2.79	54.8	5,691	4,200	49
	C.C.	23.06	1.0	8.76	0.8	0.1	2.79	51.8	5,496	4,200	49
1,000	61/3.25	29.3	1.0	8.76	0.8	0.1	2.79	58.7	7,041	3,800	49
	C.C.	26.92	1.0	8.76	0.8	0.1	2.79	55.9	6,883	3,800	49

C.C.: Compact Round Stranded Conductor

15,001~25,000V XLPE Insulated and PVC Sheathed Power Cables. (133% Insulation Level)

(Table 18) Three Cores

(ICEA S-66-524)

Size (AWG. MCM)	Conductor		Inner Semi- Conducting Tape (mm)	Nominal Thick. of Insulation (mm)	Outer Semi- Conducting Tape (mm)	Thick. of Copper Screen Tape (mm)	Nominal thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Weight (Kg/Km)	Min. Insulation Resistance at 15.6℃ (KΩ-1000ft.)	AC Test Voltage (KV/ 5 min.)
	No. & Dia. of Wire or Shape (mm)	Outside Dia. (mm)									
1	19/1.69	8.43	1.0	8.76	0.8	0.1	3.56	74.2	5,396	8,000	49
1/0	19/1.89	9.46	1.0	8.76	0.8	0.1	3.56	76.4	5,884	7,700	49
	C.C.	8.53	1.0	8.76	0.8	0.1	3.56	74.4	5,707	7,700	49
2/0	19/2.13	10.6	1.0	8.76	0.8	0.1	3.56	79.0	6,504	7,300	49
	C.C.	9.55	1.0	8.76	0.8	0.1	3.56	76.6	6,287	7,300	49
3/0	19/2.39	11.9	1.0	8.76	0.8	0.1	3.56	81.8	7,240	6,800	49
	C.C.	10.74	1.0	8.76	0.8	0.1	3.56	79.2	6,993	6,800	49
4/0	37/2.68	13.4	1.0	8.76	0.8	0.1	3.56	84.9	8,133	6,400	49
	C.C.	12.07	1.0	8.76	0.8	0.1	3.56	82.0	7,875	6,400	49
250	37/2.09	14.6	1.0	8.76	0.8	0.1	3.56	87.7	8,938	6,000	49
	C.C.	13.21	1.0	8.76	0.8	0.1	3.56	84.5	8,635	6,000	49
300	37/2.29	16.0	1.0	8.76	0.8	0.1	3.56	90.7	9,922	5,700	49
	C.C.	14.48	1.0	8.76	0.8	0.1	3.56	87.4	9,604	5,700	49
350	37/2.47	17.3	1.0	8.76	0.8	0.1	3.56	93.5	10,868	5,400	49
	C.C.	15.65	1.0	8.76	0.8	0.1	3.56	89.9	10,526	5,400	49
400	37/2.64	18.5	1.0	8.76	0.8	0.1	3.56	97.0	11,938	5,200	49
	C.C.	16.74	1.0	8.76	0.8	0.1	3.56	92.3	11,463	5,200	49
500	37/2.95	20.7	1.0	8.76	0.8	0.1	3.56	101.6	13,770	4,800	49
	C.C.	18.69	1.0	8.76	0.8	0.1	3.56	96.5	13,232	4,800	49
600	61/2.52	22.7	1.0	8.76	0.8	0.1	3.56	106.0	15,703	4,500	49
	C.C.	20.65	1.0	8.76	0.8	0.1	3.56	100.7	15,127	4,500	49
750	61/2.82	25.3	1.0	8.76	0.8	0.1	3.56	112.4	18,491	4,200	49
	C.C.	23.06	1.0	8.76	0.8	0.1	3.56	105.9	17,729	4,200	49
1,000	61/3.25	29.3	1.0	8.76	0.8	0.1	3.56	120.7	22,860	3,800	49
	C.C.	26.92	1.0	8.76	0.8	0.1	3.56	114.7	22,168	3,800	49

C.C.: Compact Round Stranded Conductor

0.6/1KV XLPE Insulated and PVC Sheathed Power Cables

(Table 19) Single Core or Multi Core

(IEC 60502)

Conductor Nominal Area (mm ²)	Thick. of Insula- tion (mm)	Non-Metallic Sheathed. Unarmoured Cable															
		Thick. of PVC Sheath (mm)				Approx. Overall Diameter (mm)				Approx. Weight of Cable(kg/km)							
										Copper				Aluminium			
		1C	2C	3C	4C	1C	2C	3C	4C	1C	2C	3C	4C	1C	2C	3C	4C
1.5	0.7	1.4	1.8	1.8	1.8	6.5	11	11	12	53	120	145	170	44	105	120	135
2.5	0.7	1.4	1.8	1.8	1.8	7.0	12	12	13	68	145	185	225	53	115	140	165
4	0.7	1.4	1.8	1.8	1.8	7.5	13	14	15	87	185	250	310	64	135	175	210
6	0.7	1.4	1.8	1.8	1.8	8.0	14	15	16	110	240	320	400	73	165	210	250
10	0.7	1.4	1.8	1.8	1.8	9.0	15	17	18	155	330	450	560	95	210	260	310
16	0.7	1.4	1.8	1.8	1.8	10	18	19	21	220	460	640	810	120	260	340	410
25	0.9	1.4	1.8	1.8	1.8	12	21	23	25	345	670	940	1,210	190	360	470	590
35	0.9	1.4	1.8	1.8	1.8	13	24	26	28	424	880	1,260	1,620	207	450	600	750
50	1.0	1.4	1.8	1.8	1.9	14	22	25	27	555	1,150	1,670	2,180	245	530	730	930
70	1.1	1.4	1.8	1.9	2.0	16	24	27	31	770	1,560	2,280	3,000	336	690	970	1,250
95	1.1	1.5	2.0	2.0	2.1	18	27	31	34	1,040	2,050	3,020	4,000	455	860	1,240	1,620
120	1.2	1.5	2.1	2.1	2.3	20	30	34	38	1,290	2,570	3,790	5,000	550	1,070	1,540	2,000
150	1.4	1.6	2.2	2.3	2.4	22	33	38	42	1,590	3,200	4,750	6,300	650	1,330	1,940	2,550
185	1.6	1.6	2.3	2.4	3.6	24	36	42	47	1,950	4,000	5,850	7,700	820	1,690	2,380	3,070
240	1.7	1.7	2.5	2.6	3.8	27	40	46	52	2,500	5,050	7,500	9,900	1,090	2,050	3,000	3,900
300	1.8	1.8	2.7	2.8	3.0	30	45	51	57	3,100	6,300	9,300	12,300	1,330	2,550	3,670	4,800
400	2.0	1.9	2.9	3.0	3.3	33	51	58	65	4,100	8,300	12,300	16,300	1,650	3,300	4,800	6,300
500	2.2	2.0	3.1	-	-	36	56	-	-	5,100	10,300	-	-	2,070	4,100	-	-
630	2.4	2.2	-	-	-	41	-	-	-	6,400	-	-	-	2,610	-	-	-
800	2.6	2.3	-	-	-	45	-	-	-	8,050	-	-	-	3,320	-	-	-
1,000	2.8	2.4	-	-	-	50	-	-	-	10,250	-	-	-	4,160	-	-	-

0.6/1KV XLPE Insulated and PVC Sheathed Power Cables

(Table 20) Multi Core

(IEC 60502)

Conductor Nominal Area (mm ²)	Thick. of Insula- tion (mm)	Tape Armoured Cable																	
		Thick. of Extruded Inner covering (mm)			Thick. of Armour Tape (mm)			Thick. of Plastic Jacket (mm)			Overall Diameter (approx.)(mm)			Approx. Weight of Cable kg/km					
														Copper Conductor			Aluminium Conductor		
		2C	3C	4C	2C	3C	4C	2C	3C	4C	2C	3C	4C	2C	3C	4C	2C	3C	4C
1.5	0.7	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.8	13	13	14	260	300	310	240	270	280
2.5	0.7	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.8	14	14	15	290	330	370	270	285	310
4	0.7	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.8	15	16	17	320	490	450	290	320	350
6	0.7	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.8	16	17	18	390	460	550	310	350	400
10	0.7	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.8	18	19	20	510	630	760	390	440	540
16	0.7	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.8	20	21	23	680	850	1,050	480	550	650
25	0.9	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.8	24	25	26	950	1,250	1,550	650	750	900
35	0.9	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.8	26	28	30	1,200	1,600	1,950	760	900	1,100
50	1.0	1.0	1.0	1.0	0.2	0.2	0.2	1.8	1.8	1.9	28	30	34	1,500	2,050	2,650	900	1,100	1,400
70	1.1	1.0	1.0	1.2	0.2	0.2	0.2	1.9	2.0	2.1	32	34	38	2,050	2,800	3,600	1,150	1,450	1,800
95	1.1	1.2	1.2	1.2	0.2	0.5	0.5	2.0	2.1	2.3	36	40	44	2,700	4,000	5,200	1,450	2,300	2,750
120	1.2	1.2	1.2	1.4	0.5	0.5	0.5	2.2	2.3	2.4	41	44	48	3,750	5,000	6,400	2,250	2,700	3,300
150	1.4	1.2	1.4	1.4	0.5	0.5	0.5	2.3	2.4	2.6	45	48	53	4,550	6,100	7,800	2,600	3,250	4,000
185	1.6	1.2	1.4	1.4	0.5	0.5	0.5	2.4	2.5	2.7	50	53	59	5,500	7,400	9,450	3,200	3,900	4,750
240	1.7	1.4	1.4	1.6	0.5	0.5	0.5	2.6	2.7	2.9	55	59	66	6,900	9,300	11,950	3,800	4,700	5,850
300	1.8	1.4	1.6	1.6	0.5	0.5	0.5	2.8	2.9	3.1	61	65	72	8,400	11,500	14,700	4,500	6,100	7,000
400	2.0	1.4	1.6	1.8	0.5	0.5	0.5	3.0	3.2	3.4	69	73	82	10,900	14,900	19,300	5,700	7,150	9,000
500	2.2	1.6	-	-	0.5	-	-	3.2	-	-	76	-	-	13,200	-	-	6,800	-	-
630	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,000	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

0.6/1KV XLPE Insulated and PVC Sheathed Power Cables.(Wire Armoured)

(Table 21) Multi Core

(IEC 60502)

Conductor Nominal Area (mm ²)	Thick. of Insula- tion (mm)	Wire Armoured Cable																	
		Thick. of Extruded Inner covering (mm)			Wire (mm)			Thick. of PVC Sheath (mm)			Approx. Overall Dia. (mm)			Approx. Weight of Cable (kg/km)					
														Copper			Aluminium		
		2C	3C	4C	2C	3C	4C	2C	3C	4C	2C	3C	4C	2C	3C	4C	1C	2C	3C
1.5	0.7	1.0	1.0	1.0	0.8	0.8	0.8	1.8	1.8	1.8	13.7	14.2	15.0	315	345	384	296	319	350
2.5	0.7	1.0	1.0	1.0	0.8	0.8	0.8	1.8	1.8	1.8	14.7	15.3	16.2	367	411	468	336	364	406
4	0.7	1.0	1.0	1.0	0.8	0.8	0.8	1.8	1.8	1.8	15.8	16.4	17.4	430	488	562	380	413	462
6	0.7	1.0	1.0	1.0	0.8	0.8	0.8	1.8	1.8	1.8	17.0	17.7	18.8	508	587	681	434	475	531
10	0.7	1.0	1.0	1.0	0.8	0.8	1.6	1.8	1.8	1.8	19.0	19.8	22.9	640	767	1,200	514	578	950
16	0.7	1.0	1.0	1.0	1.6	1.6	1.6	1.8	1.8	1.8	22.7	23.7	25.4	1,120	1,320	1,550	917	1,020	1,150
25	0.9	1.0	1.0	1.0	1.6	1.6	1.6	1.8	1.8	1.9	26.1	27.4	29.7	1,460	1,770	2,120	1,140	1,290	1,490
35	0.9	1.0	1.0	1.0	1.6	1.6	2.0	1.9	1.9	2.0	28.6	30.1	33.5	1,780	2,180	2,850	1,340	1,520	1,970
50	1.0	1.0	1.0	1.2	1.6	2.0	2.0	2.0	2.1	2.2	32.0	34.7	38.2	2,190	2,970	3,650	1,600	2,070	2,460
70	1.1	1.2	1.2	1.2	2.0	2.0	2.0	2.2	2.2	2.4	37.6	39.6	43.4	3,130	3,880	4,770	2,270	2,590	3,040
95	1.1	1.2	1.2	1.4	2.0	2.5	2.5	2.3	2.4	2.6	41.6	45.1	49.8	3,880	5,320	6,580	2,690	3,520	4,190
120	1.2	1.2	1.4	1.4	2.5	2.5	2.5	2.5	2.6	2.7	46.6	49.8	54.4	5,030	6,410	7,880	3,510	4,130	4,840
150	1.4	1.4	1.4	1.6	2.5	2.5	2.5	2.6	2.7	2.9	51.1	54.1	59.9	5,930	7,540	9,410	4,060	4,740	5,680
185	1.6	1.4	1.6	1.6	2.5	2.5	2.5	2.8	3.0	3.1	56.1	62.1	65.8	7,080	9,500	11,400	4,730	5,980	6,670
240	1.7	1.6	1.6	1.6	2.5	2.5	3.15	3.0	3.1	3.4	62.5	66.4	74.5	8,760	11,400	15,100	5,660	6,700	8,900
300	1.8	1.6	1.6	1.8	3.15	3.15	3.15	3.2	3.4	3.6	69.5	74.0	84.4	11,300	14,500	18,200	7,390	8,710	10,500
400	2.0	1.8	1.8	1.8	3.15	3.15	3.5	3.5	3.6	3.9	77.2	82.0	91.0	13,700	17,800	22,900	8,730	10,400	13,000

0.6/1KV XLPE Insulated Power Cables with Reduced Neutral Conductor and Phase Conductor

(Table 22) Four Cores

(IEC 60502)

Nominal cross-sectional area		Thickness of insulation		Unarmoured Cable			
Phase conductor (mm ²)	Neutral conductor (mm ²)	Phase conductor (mm)	Neutral conductor (mm)	Thickness of PVC outer sheath (mm)	Approx. overall diameter (mm)	Approx. Weight of Cable	
						Copper conductor (kg/km)	Aluminium conductor (kg/km)
25	16	0.9	0.7	1.8	23	1,130	560
35	16	0.9	0.7	1.8	25	1,430	680
50	25	1.0	0.9	1.8	28	1,940	900
70	35	1.1	0.9	1.9	33	2,710	1,220
95	50	1.1	1.0	2.1	37	3,670	1,614
120	70	1.2	1.1	2.2	42	4,720	2,020
150	70	1.4	1.1	2.3	45	5,620	2,400
185	95	1.6	1.1	2.5	51	7,100	3,010
240	120	1.7	1.2	2.7	57	9,280	3,880
300	150	1.8	1.4	2.9	63	10,740	3,980
300	185	1.8	1.6	2.9	64	11,940	4,960

0.6/1KV XLPE Insulated Power Cables with Reduced Neutral Conductor and Phase Conductor(Armoured)

(Table 23) Four Cores

(IEC 60502)

Nominal cross-sectional area		Thickness of insulation		Wire Armoured Cable					
Phase conductor (mm ²)	Neutral conductor (mm ²)	Phase conductor (mm)	Neutral conductor (mm)	Thickness of extruded inner-covering (mm)	Diameter of armour wire (mm)	Thickness of PVC outer sheath (mm)	Approx. overall diameter (mm)	Approx. Weight of Cable	
								Copper conductor (kg/km)	Aluminium conductor (kg/km)
25	16	0.9	0.7	1.0	1.6	1.8	28	1,940	1,380
35	16	0.9	0.7	1.0	1.6	1.8	30	2,300	1,560
50	25	1.0	0.9	1.0	1.6	1.9	34	2,950	1,910
70	35	1.1	0.9	1.2	2.0	2.1	39	4,210	2,710
95	50	1.1	1.0	1.2	2.0	2.2	43	5,330	3,260
120	70	1.2	1.1	1.2	2.0	2.3	48	6,570	3,870
150	70	1.4	1.1	1.4	2.5	2.5	53	8,180	4,960
185	95	1.6	1.1	1.4	2.5	2.7	58	9,950	5,860
240	120	1.7	1.2	1.6	2.5	2.9	65	12,560	7,160
300	150	1.8	1.4	1.6	2.5	3.0	71	14,270	7,510
300	185	1.8	1.6	1.6	2.5	3.1	73	15,600	8,610

1.8/3KV XLPE Insulated and PVC Sheathed Power Cables.

(Table 24) Single Core

(IEC 60502)

Conductor			Nominal Thick. of Insulation (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (km/km)	Min. Insulation Resistance at 15.6℃ (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)						
10	N.C.	4.10	2.0	0.1	1.4	11.00	187	1,800
16	N.C.	5.10	2.0	0.1	1.4	12.00	252	1,550
25	N.C.	6.42	2.0	0.1	1.4	13.30	351	1,300
35	N.C.	7.65	2.0	0.1	1.4	14.53	454	1,130
50	N.C.	8.90	2.0	0.1	1.4	15.85	582	1,000
70	N.C.	10.70	2.0	0.1	1.5	17.95	804	850
95	N.C.	12.60	2.0	0.1	1.6	19.95	1,074	740
120	N.C.	14.21	2.0	0.1	1.6	21.56	1,325	670
150	N.C.	15.75	2.0	0.1	1.7	23.30	1,603	610
185	N.C.	17.64	2.0	0.1	1.8	25.40	1,979	550
240	N.C.	20.25	2.0	0.1	1.9	28.20	2,562	500
300	N.C.	22.68	2.0	0.1	1.9	30.63	3,158	440
400	N.C.	25.65	2.0	0.1	2.0	33.80	3,989	390
500	N.C.	28.80	2.2	0.1	2.2	36.75	4,931	380
630	N.C.	32.76	2.4	0.1	2.3	42.31	6,462	370
800	N.C.	37.05	2.6	0.1	2.5	47.40	8,225	360
1,000	N.C.	41.60	2.8	0.1	2.7	51.75	10,209	340

(Table 25) Three Cores

(IEC 60502)

Conductor			Nominal Thick. of Insulation (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)						
10	N.C.	4.10	2.0	0.1	1.8	22.0	589	1,800
16	N.C.	5.10	2.0	0.1	1.8	24.2	794	1,550
25	N.C.	6.42	2.0	0.1	1.8	27.0	1,107	1,300
35	N.C.	7.65	2.0	0.1	1.9	29.8	1,443	1,130
50	N.C.	8.90	2.0	0.1	2.0	32.9	1,861	1,000
70	N.C.	10.70	2.0	0.1	2.2	37.3	2,567	850
95	N.C.	12.60	2.0	0.1	2.3	41.4	3,405	740
120	N.C.	14.21	2.0	0.1	2.4	45.1	4,211	670
150	N.C.	15.75	2.0	0.1	2.5	48.6	5,073	610
185	N.C.	17.64	2.0	0.1	2.7	53.1	6,264	550
240	N.C.	20.25	2.0	0.1	2.9	59.1	8,102	500
300	N.C.	22.68	2.0	0.1	3.0	64.5	9,995	440
400	N.C.	25.65	2.0	0.1	3.3	71.5	12,641	390

*1) N.C.: Non-Compact Round Stranded Conductor.

1.8/3KV XLPE Insulated and PVC Sheathed Power Cables(Armoured)

(Table 26) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Round wire armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Diameter of armour wire (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
10	N.C.	4.10	2.0	-	1.2	-	1.6	-	1.8	-	28	-	1,480	-	1,290
16	N.C.	5.10	2.0	-	1.2	-	1.6	-	1.9	-	29	-	1,720	-	1,410
25	N.C.	6.42	2.0	-	1.2	-	1.6	-	1.9	-	32	-	2,130	-	1,650
35	N.C.	7.65	2.0	-	1.2	-	2.0	-	2.1	-	36	-	2,810	-	2,140
50	N.C.	8.90	2.0	-	1.2	-	2.0	-	2.2	-	39	-	3,340	-	2,450
70	N.C.	10.70	2.0	-	1.2	-	2.0	-	2.3	-	42	-	4,200	-	2,910
95	N.C.	12.60	2.0	-	1.3	-	2.5	-	2.4	-	47	-	5,600	-	3,820
120	N.C.	14.21	2.0	-	1.3	-	2.5	-	2.5	-	51	-	6,580	-	4,310
150	N.C.	15.75	2.0	-	1.4	-	2.5	-	2.7	-	54	-	7,680	-	4,870
185	N.C.	17.64	2.0	-	1.5	-	2.5	-	2.8	-	58	-	9,060	-	5,560
240	N.C.	20.25	2.0	-	1.6	-	2.5	-	3.0	-	64	-	11,200	-	6,600
300	N.C.	22.68	2.0	-	1.6	-	2.5	-	3.1	-	69	-	13,290	-	7,500
400	N.C.	25.65	2.0	-	1.8	-	3.15	-	3.4	-	78	-	17,260	-	9,880

(Table 27) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Tape armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Thickness of Tape (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
10	N.C.	4.10	2.0	-	1.2	-	0.2	-	1.8	-	26	-	910	-	720
16	N.C.	5.10	2.0	-	1.2	-	0.2	-	1.8	-	27	-	1,120	-	820
25	N.C.	6.42	2.0	-	1.2	-	0.2	-	1.9	-	30	-	1,480	-	1,000
35	N.C.	7.65	2.0	-	1.2	-	0.2	-	1.9	-	32	-	1,810	-	1,170
50	N.C.	8.90	2.0	-	1.2	-	0.2	-	2.1	-	36	-	2,300	-	1,410
70	N.C.	10.70	2.0	-	1.2	-	0.5	-	2.2	-	41	-	3,390	-	2,100
95	N.C.	12.60	2.0	-	1.3	-	0.5	-	2.3	-	44	-	4,330	-	2,530
120	N.C.	14.21	2.0	-	1.3	-	0.5	-	2.4	-	48	-	5,180	-	2,910
150	N.C.	15.75	2.0	-	1.4	-	0.5	-	2.6	-	52	-	6,180	-	3,370
185	N.C.	17.64	2.0	-	1.5	-	0.5	-	2.7	-	55	-	7,420	-	3,920
240	N.C.	20.25	2.0	-	1.6	-	0.5	-	2.8	-	61	-	9,350	-	4,750
300	N.C.	22.68	2.0	-	1.6	-	0.5	-	3.0	-	66	-	11,340	-	5,580
400	N.C.	25.65	2.0	-	1.8	-	0.5	-	3.3	-	74	-	14,220	-	6,830

*1)N.C.: Non-Compact Round Stranded Conductor.

3.6/6KV XLPE Insulated and PVC Sheathed Power Cables.

(Table 28) Single Core

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6°C (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
10	N.C.	4.1	0.15	2.5	0.25	0.1	1.4	14.0	283	2,030
16	N.C.	5.1	0.15	2.5	0.25	0.1	1.4	15.1	357	1,740
25	C.C.	6.0	1.0	2.5	0.8	0.1	1.5	18.6	555	1,320
35	C.C.	7.1	1.0	2.5	0.8	0.1	1.6	19.9	679	1,200
50	C.C.	8.4	1.0	2.5	0.8	0.1	1.6	21.2	824	1,100
70	C.C.	10.0	1.0	2.5	0.8	0.1	1.7	23.0	1,066	950
95	C.C.	11.6	1.0	2.5	0.8	0.1	1.7	24.6	1,346	850
120	C.C.	13.0	1.0	2.5	0.8	0.1	1.8	26.2	1,624	760
150	C.C.	14.6	1.0	2.5	0.8	0.1	1.8	27.8	1,914	700
185	C.C.	16.2	1.0	2.5	0.8	0.1	1.9	29.6	2,309	660
240	C.C.	18.4	1.0	2.6	0.8	0.1	2.0	32.2	2,922	620
300	C.C.	20.7	1.0	2.8	0.8	0.1	2.1	35.1	3,633	600
400	C.C.	23.5	1.0	3.0	0.8	0.1	2.2	38.5	4,486	570
500	C.C.	26.6	1.0	3.2	0.8	0.1	2.3	42.2	5,547	550
630	C.C.	29.9	1.0	3.2	0.8	0.1	2.4	45.7	7,009	500
800	C.C.	37.1	1.0	3.2	0.8	0.1	2.6	50.8	8,646	430
1,000	C.C.	41.6	1.0	3.2	0.8	0.1	2.8	55.7	10,752	380

(Table 29) Three Cores

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6°C (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
10	N.C.	4.1	0.15	2.5	0.25	0.1	1.9	28.7	921	2,030
16	N.C.	5.1	0.15	2.5	0.25	0.1	2.0	31.2	1,170	1,740
25	C.C.	6.0	1.0	2.5	0.8	0.1	2.2	38.7	1,823	1,320
35	C.C.	7.1	1.0	2.5	0.8	0.1	2.3	41.3	2,211	1,200
50	C.C.	8.4	1.0	2.5	0.8	0.1	2.4	44.3	2,692	1,100
70	C.C.	10.0	1.0	2.5	0.8	0.1	2.5	48.0	3,446	950
95	C.C.	11.6	1.0	2.5	0.8	0.1	2.6	51.6	4,347	850
120	C.C.	13.0	1.0	2.5	0.8	0.1	2.7	54.8	5,207	760
150	C.C.	14.6	1.0	2.5	0.8	0.1	2.9	58.7	6,176	700
185	C.C.	16.2	1.0	2.5	0.8	0.1	3.0	62.3	7,400	660
240	C.C.	18.4	1.0	2.6	0.8	0.1	3.2	67.9	9,339	620
300	C.C.	20.7	1.0	2.8	0.8	0.1	3.4	74.1	11,592	600
400	C.C.	23.5	1.0	3.0	0.8	0.1	3.6	81.4	14,302	570

*1) N.C.: Non-Compact Round Stranded Conductor.

C.C.: Compact Round Stranded Conductor.

3.6/6KV XLPE Insulated and PVC Sheathed Power Cables(Armoured)

(Table 30) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Round wire armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Diameter of armour wire (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
10	N.C.	4.1	2.5	-	1.2	-	2.0	-	2.1	-	37	-	2,440	-	2,250
16	N.C.	5.1	2.5	-	1.2	-	2.0	-	2.2	-	38	-	2,730	-	2,440
25	C.C.	6.0	2.5	-	1.2	-	2.0	-	2.3	-	41	-	3,220	-	2,750
35	C.C.	7.1	2.5	-	1.2	-	2.0	-	2.4	-	44	-	3,690	-	3,040
50	C.C.	8.4	2.5	-	1.3	-	2.5	-	2.5	-	47	-	4,730	-	3,840
70	C.C.	10.0	2.5	-	1.4	-	2.5	-	2.6	-	52	-	5,730	-	4,440
95	C.C.	11.6	2.5	-	1.4	-	2.5	-	2.7	-	56	-	6,840	-	5,050
120	C.C.	13.0	2.5	-	1.5	-	2.5	-	2.9	-	59	-	7,980	-	5,710
150	C.C.	14.6	2.5	-	1.6	-	2.5	-	3.0	-	63	-	9,140	-	6,330
185	C.C.	16.2	2.5	-	1.6	-	2.5	-	3.1	-	67	-	10,570	-	7,060
240	C.C.	18.4	2.6	-	1.7	-	2.5	-	3.3	-	74	-	13,150	-	8,490
300	C.C.	20.7	2.8	-	1.8	-	3.15	-	3.5	-	82	-	16,680	-	10,820
400	C.C.	23.5	3.0	-	2.0	-	3.15	-	3.8	-	89	-	20,210	-	12,730

(Table 31) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Tape armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Thickness of Tape (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
10	N.C.	4.1	2.5	-	1.2	-	0.2	-	2.0	-	33	-	1,420	-	1,230
16	N.C.	5.1	2.5	-	1.2	-	0.5	-	2.1	-	36	-	2,040	-	1,740
25	C.C.	6.0	2.5	-	1.2	-	0.5	-	2.2	-	38	-	2,470	-	2,010
35	C.C.	7.1	2.5	-	1.2	-	0.5	-	2.3	-	41	-	2,900	-	2,250
50	C.C.	8.4	2.5	-	1.3	-	0.5	-	2.4	-	44	-	3,460	-	2,570
70	C.C.	10.0	2.5	-	1.4	-	0.5	-	2.5	-	48	-	4,320	-	3,030
95	C.C.	11.6	2.5	-	1.4	-	0.5	-	2.6	-	52	-	5,330	-	3,540
120	C.C.	13.0	2.5	-	1.5	-	0.5	-	2.8	-	56	-	6,350	-	4,080
150	C.C.	14.6	2.5	-	1.6	-	0.5	-	2.9	-	59	-	7,400	-	4,590
185	C.C.	16.2	2.5	-	1.6	-	0.5	-	3.0	-	63	-	8,720	-	5,210
240	C.C.	18.4	2.6	-	1.7	-	0.5	-	3.2	-	70	-	11,050	-	6,390
300	C.C.	20.7	2.8	-	1.8	-	0.5	-	3.4	-	76	-	13,390	-	7,500
400	C.C.	23.5	3.0	-	2.0	-	0.8	-	3.7	-	85	-	17,510	-	10,090

*1) N.C.: Non-Compact Round Stranded Conductor.

C.C.: Compact Round Stranded Conductor.

6/10KV XLPE Insulated and PVC Sheathed Power Cables.

(Table 32) Single Core

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ·km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
16	N.C.	5.1	0.15	3.4	0.25	0.1	1.5	17.1	417	2,200
25	C.C.	6.0	0.15	3.4	0.25	0.1	1.6	20.6	626	1,700
35	C.C.	7.1	1.0	3.4	0.8	0.1	1.6	21.7	746	1,500
50	C.C.	8.4	1.0	3.4	0.8	0.1	1.7	23.2	904	1,400
70	C.C.	10.0	1.0	3.4	0.8	0.1	1.7	24.8	1,140	1,200
95	C.C.	11.6	1.0	3.4	0.8	0.1	1.8	26.6	1,437	1,100
120	C.C.	13.0	1.0	3.4	0.8	0.1	1.8	28.0	1,707	1,000
150	C.C.	14.6	1.0	3.4	0.8	0.1	1.9	29.8	2,015	950
185	C.C.	16.2	1.0	3.4	0.8	0.1	2.0	31.6	2,415	850
240	C.C.	18.4	1.0	3.4	0.8	0.1	2.0	33.8	3,016	780
300	C.C.	20.7	1.0	3.4	0.8	0.1	2.1	36.3	3,662	700
400	C.C.	23.5	1.0	3.4	0.8	0.1	2.2	39.3	4,537	650
500	C.C.	26.6	1.0	3.4	0.8	0.1	2.3	42.6	5,575	600
630	C.C.	29.9	1.0	3.4	0.8	0.1	2.4	46.1	7,039	550

(Table 33) Three Cores

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ·km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
16	N.C.	5.1	0.15	3.4	0.25	0.1	2.1	35.3	1,370	2,200
25	C.C.	6.0	0.15	3.4	0.25	0.1	2.3	42.8	2,062	1,700
35	C.C.	7.1	1.0	3.4	0.8	0.1	2.4	45.4	2,464	1,500
50	C.C.	8.4	1.0	3.4	0.8	0.1	2.5	48.4	2,961	1,400
70	C.C.	10.0	1.0	3.4	0.8	0.1	2.6	52.0	3,729	1,200
95	C.C.	11.6	1.0	3.4	0.8	0.1	2.8	55.9	4,678	1,100
120	C.C.	13.0	1.0	3.4	0.8	0.1	2.9	59.1	5,555	1,000
150	C.C.	14.6	1.0	3.4	0.8	0.1	3.0	62.7	6,516	950
185	C.C.	16.2	1.0	3.4	0.8	0.1	3.1	66.4	7,761	850
240	C.C.	18.4	1.0	3.4	0.8	0.1	3.3	71.5	9,704	780
300	C.C.	20.7	1.0	3.4	0.8	0.1	3.4	76.7	11,723	700
400	C.C.	23.5	1.0	3.4	0.8	0.1	3.7	83.3	14,522	650

*1) N.C.: Non-Compact Round Stranded Conductor.

C.C.: Compact Round Stranded Conductor.

6/10KV XLPE Insulated and PVC Sheathed Power Cables(Armoured)

(Table 34) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Round wire armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Diameter of armour wire (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
16	N.C.	5.1	3.4	-	1.2	-	2.0	-	2.3	-	43	-	3,150	-	2,860
25	C.C.	6.0	3.4	-	1.3	-	2.5	-	2.5	-	47	-	4,140	-	3,670
35	C.C.	7.1	3.4	-	1.3	-	2.5	-	2.5	-	49	-	4,640	-	3,990
50	C.C.	8.4	3.4	-	1.4	-	2.5	-	2.6	-	52	-	5,280	-	4,390
70	C.C.	10.0	3.4	-	1.4	-	2.5	-	2.8	-	56	-	6,290	-	5,010
95	C.C.	11.6	3.4	-	1.5	-	2.5	-	2.9	-	60	-	7,480	-	5,700
120	C.C.	13.0	3.4	-	1.6	-	2.5	-	3.0	-	64	-	8,610	-	6,330
150	C.C.	14.6	3.4	-	1.6	-	2.5	-	3.1	-	67	-	9,730	-	6,920
185	C.C.	16.2	3.4	-	1.7	-	2.5	-	3.2	-	71	-	12,230	-	7,720
240	C.C.	18.4	3.4	-	1.8	-	3.15	-	3.4	-	79	-	14,770	-	10,110
300	C.C.	20.7	3.4	-	1.9	-	3.15	-	3.6	-	84	-	17,170	-	11,310
400	C.C.	23.5	3.4	-	2.0	-	3.15	-	3.8	-	92	-	20,640	-	13,160

(Table 35) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Tape armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Thickness of Tape (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
16	N.C.	5.1	3.4	-	1.2	-	0.5	-	2.3	-	41	-	2,440	-	2,140
25	C.C.	6.0	3.4	-	1.3	-	0.5	-	2.3	-	44	-	2,900	-	2,430
35	C.C.	7.1	3.4	-	1.3	-	0.5	-	2.4	-	46	-	3,350	-	2,690
50	C.C.	8.4	3.4	-	1.4	-	0.5	-	2.5	-	49	-	3,920	-	3,030
70	C.C.	10.0	3.4	-	1.4	-	0.5	-	2.7	-	53	-	4,820	-	3,540
95	C.C.	11.6	3.4	-	1.5	-	0.5	-	2.8	-	57	-	5,090	-	4,090
120	C.C.	13.0	3.4	-	1.6	-	0.5	-	2.9	-	61	-	6,910	-	4,630
150	C.C.	14.6	3.4	-	1.6	-	0.5	-	3.0	-	64	-	7,930	-	5,110
185	C.C.	16.2	3.4	-	1.7	-	0.5	-	3.1	-	68	-	9,340	-	5,820
240	C.C.	18.4	3.4	-	1.8	-	0.5	-	3.3	-	75	-	11,660	-	6,990
300	C.C.	20.7	3.4	-	1.9	-	0.5	-	3.5	-	80	-	13,890	-	8,030
400	C.C.	23.5	3.4	-	2.0	-	0.8	-	3.7	-	88	-	17,880	-	10,400

*1) N.C.: Non-Compact Round Stranded Conductor.

C.C.: Compact Round Stranded Conductor.

8.7/15KV XLPE Insulated and PVC Sheathed Power Cables.

(Table 36) Single Core

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
25	C.C.	6.0	1.0	4.5	0.8	0.1	1.7	23.0	720	2,100
35	C.C.	7.1	1.0	4.5	0.8	0.1	1.7	24.1	844	1,900
50	C.C.	8.4	1.0	4.5	0.8	0.1	1.8	25.6	1,008	1,700
70	C.C.	10.0	1.0	4.5	0.8	0.1	1.8	27.2	1,250	1,500
95	C.C.	11.6	1.0	4.5	0.8	0.1	1.9	29.0	1,553	1,400
120	C.C.	13.0	1.0	4.5	0.8	0.1	1.9	30.4	1,829	1,300
150	C.C.	14.6	1.0	4.5	0.8	0.1	2.0	32.2	2,143	1,200
185	C.C.	16.2	1.0	4.5	0.8	0.1	2.0	33.8	2,536	1,100
240	C.C.	18.4	1.0	4.5	0.8	0.1	2.1	36.2	3,159	1,000
300	C.C.	20.7	1.0	4.5	0.8	0.1	2.2	38.7	3,815	900
400	C.C.	23.5	1.0	4.5	0.8	0.1	2.3	41.7	4,701	850
500	C.C.	26.6	1.0	4.5	0.8	0.1	2.4	45.0	5,751	750
630	C.C.	29.9	1.0	4.5	0.8	0.1	2.5	48.5	7,228	700

(Table 37) Three Cores

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
25	C.C.	6.0	1.0	4.5	0.8	0.1	2.5	48.0	2,402	2,100
35	C.C.	7.1	1.0	4.5	0.8	0.1	2.6	50.5	2,818	1,900
50	C.C.	8.4	1.0	4.5	0.8	0.1	2.7	53.5	3,336	1,700
70	C.C.	10.0	1.0	4.5	0.8	0.1	2.8	57.2	4,130	1,500
95	C.C.	11.6	1.0	4.5	0.8	0.1	2.9	60.8	5,074	1,400
120	C.C.	13.0	1.0	4.5	0.8	0.1	3.0	64.0	5,971	1,300
150	C.C.	14.6	1.0	4.5	0.8	0.1	3.2	67.9	6,988	1,200
185	C.C.	16.2	1.0	4.5	0.8	0.1	3.3	71.5	8,253	1,100
240	C.C.	18.4	1.0	4.5	0.8	0.1	3.4	76.5	10,202	1,000
300	C.C.	20.7	1.0	4.5	0.8	0.1	3.6	81.8	12,282	900
400	C.C.	23.5	1.0	4.5	0.8	0.1	3.8	88.3	15,094	850

*1) C.C.: Compact Round Stranded Conductor.

8.7/15KV XLPE Insulated and PVC Sheathed Power Cables(Armoured)

(Table 38) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Round wire armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Diameter of armour wire (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
25	C.C.	6.0	4.5	-	1.2	-	2.0	-	2.6	-	53	-	4,770	-	4,310
35	C.C.	7.1	4.5	-	1.4	-	2.5	-	2.7	-	55	-	5,330	-	4,680
50	C.C.	8.4	4.5	-	1.4	-	2.5	-	2.8	-	58	-	6,020	-	5,120
70	C.C.	10.0	4.5	-	1.5	-	2.5	-	2.9	-	62	-	7,060	-	5,780
95	C.C.	11.6	4.5	-	1.5	-	2.5	-	3.1	-	66	-	8,270	-	6,490
120	C.C.	13.0	4.5	-	1.6	-	2.5	-	3.2	-	70	-	9,430	-	7,150
150	C.C.	14.6	4.5	-	1.7	-	2.5	-	3.3	-	74	-	11,470	-	8,670
185	C.C.	16.2	4.5	-	1.7	-	3.15	-	3.4	-	78	-	13,070	-	9,560
240	C.C.	18.4	4.5	-	1.8	-	3.15	-	3.6	-	85	-	15,800	-	11,140
300	C.C.	20.7	4.5	-	1.9	-	3.15	-	3.8	-	90	-	18,270	-	12,410
400	C.C.	23.5	4.5	-	2.0	-	3.15	-	4.0	-	98	-	21,800	-	14,320

(Table 39) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Tape armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Thickness of Tape (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
				1C	3C	1C	3C	1C	3C	1C	3C	Copper conductor		Aluminium conductor	
												1C	3C	1C	3C
25	C.C.	6.0	4.5	-	1.4	-	0.5	-	2.5	-	49	-	3,420	-	2,950
35	C.C.	7.1	4.5	-	1.4	-	0.5	-	2.6	-	52	-	3,900	-	3,340
50	C.C.	8.4	4.5	-	1.5	-	0.5	-	2.7	-	55	-	4,500	-	3,610
70	C.C.	10.0	4.5	-	1.5	-	0.5	-	2.8	-	59	-	5,410	-	4,120
95	C.C.	11.6	4.5	-	1.6	-	0.5	-	3.0	-	63	-	6,530	-	4,740
120	C.C.	13.0	4.5	-	1.7	-	0.5	-	3.1	-	66	-	7,580	-	5,310
150	C.C.	14.6	4.5	-	1.7	-	0.5	-	3.2	-	70	-	8,650	-	5,840
185	C.C.	16.2	4.5	-	1.8	-	0.5	-	3.3	-	74	-	10,060	-	6,550
240	C.C.	18.4	4.5	-	1.9	-	0.5	-	3.5	-	80	-	12,400	-	7,800
300	C.C.	20.7	4.5	-	2.0	-	0.8	-	3.7	-	87	-	15,720	-	9,860
400	C.C.	23.5	4.5	-	2.1	-	0.8	-	3.9	-	93	-	18,860	-	11,380

*1)C.C.: Compact Round Stranded Conductor.

12/20KV XLPE Insulated and PVC Sheathed Power Cables.

(Table 40) Single Core

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
35	C.C.	7.1	1.0	5.5	0.8	0.1	1.8	26.3	942	2,200
50	C.C.	8.4	1.0	5.5	0.8	0.1	1.8	27.6	1,099	2,000
70	C.C.	10.0	1.0	5.5	0.8	0.1	1.9	29.4	1,359	1,800
95	C.C.	11.6	1.0	5.5	0.8	0.1	2.0	31.2	1,668	1,600
120	C.C.	13.0	1.0	5.5	0.8	0.1	2.0	32.6	1,948	1,500
150	C.C.	14.6	1.0	5.5	0.8	0.1	2.1	34.4	2,269	1,400
185	C.C.	16.2	1.0	5.5	0.8	0.1	2.1	36.0	2,667	1,300
240	C.C.	18.4	1.0	5.5	0.8	0.1	2.2	38.4	3,300	1,200
300	C.C.	20.7	1.0	5.5	0.8	0.1	2.3	40.9	3,964	1,100
400	C.C.	23.5	1.0	5.5	0.8	0.1	2.4	43.9	4,860	1,000
500	C.C.	26.6	1.0	5.5	0.8	0.1	2.5	47.2	5,922	900
630	C.C.	29.9	1.0	5.5	0.8	0.1	2.6	50.7	7,411	800

(Table 41) Three Cores

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
35	C.C.	7.1	1.0	5.5	0.8	0.1	2.7	55.0	3,150	2,200
50	C.C.	8.4	1.0	5.5	0.8	0.1	2.8	58.0	3,682	2,000
70	C.C.	10.0	1.0	5.5	0.8	0.1	3.0	61.9	4,527	1,800
95	C.C.	11.6	1.0	5.5	0.8	0.1	3.1	65.5	5,493	1,600
120	C.C.	13.0	1.0	5.5	0.8	0.1	3.2	68.7	6,410	1,500
150	C.C.	14.6	1.0	5.5	0.8	0.1	3.3	72.4	7,418	1,400
185	C.C.	16.2	1.0	5.5	0.8	0.1	3.4	76.1	8,715	1,300
240	C.C.	18.4	1.0	5.5	0.8	0.1	3.6	81.2	10,730	1,200
300	C.C.	20.7	1.0	5.5	0.8	0.1	3.8	86.5	12,834	1,100
400	C.C.	23.5	1.0	5.5	0.8	0.1	4.0	93.0	15,680	1,000

*1) C.C.: Compact Round Stranded Conductor.

12/20KV XLPE Insulated and PVC Sheathed Power Cables(Armoured)

(Table 42) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Round wire armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Diameter of armour wire (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
35	C.C.	7.1	5.5	-	1.5	-	2.5	-	2.9	-	61	-	6,190	-	5,530
50	C.C.	8.4	5.5	-	1.6	-	2.5	-	3.0	-	64	-	6,870	-	5,980
70	C.C.	10.0	5.5	-	1.6	-	2.5	-	3.1	-	68	-	7,940	-	6,650
95	C.C.	11.6	5.5	-	1.7	-	2.5	-	3.2	-	72	-	9,150	-	7,370
120	C.C.	13.0	5.5	-	1.8	-	3.15	-	3.4	-	77	-	11,310	-	9,040
150	C.C.	14.6	5.5	-	1.8	-	3.15	-	3.5	-	80	-	12,630	-	9,820
185	C.C.	16.2	5.5	-	1.9	-	3.15	-	3.6	-	84	-	14,190	-	10,680
240	C.C.	18.4	5.5	-	2.0	-	3.15	-	3.8	-	92	-	17,000	-	12,340
300	C.C.	20.7	5.5	-	2.1	-	3.15	-	3.9	-	97	-	19,630	-	13,770
400	C.C.	23.5	5.5	-	2.2	-	3.15	-	4.2	-	104	-	23,280	-	15,810

(Table 43) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Tape armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Thickness of Tape (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
				1C	3C	1C	3C	1C	3C	1C	3C	Copper conductor		Aluminium conductor	
												1C	3C	1C	3C
35	C.C.	7.1	5.5	-	1.5	-	0.5	-	2.8	-	58	-	4,570	-	3,920
50	C.C.	8.4	5.5	-	1.6	-	0.5	-	2.9	-	61	-	5,180	-	4,290
70	C.C.	10.0	5.5	-	1.6	-	0.5	-	3.0	-	65	-	6,110	-	4,820
95	C.C.	11.6	5.5	-	1.7	-	0.5	-	3.1	-	69	-	7,230	-	5,440
120	C.C.	13.0	5.5	-	1.8	-	0.5	-	3.2	-	72	-	8,310	-	6,040
150	C.C.	14.6	5.5	-	1.8	-	0.5	-	3.3	-	76	-	9,430	-	6,620
185	C.C.	16.2	5.5	-	1.9	-	0.5	-	3.4	-	80	-	10,870	-	7,360
240	C.C.	18.4	5.5	-	2.1	-	0.8	-	3.7	-	88	-	14,370	-	9,710
300	C.C.	20.7	5.5	-	2.1	-	0.8	-	3.8	-	93	-	16,690	-	10,830
400	C.C.	23.5	5.5	-	2.3	-	0.8	-	4.1	-	100	-	20,000	-	12,520

*1) C.C.: Compact Round Stranded Conductor.

18/30KV XLPE Insulated and PVC Sheathed Power Cables.

(Table 44) Single Core

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
50	C.C.	8.4	1.0	8.0	0.8	0.1	2.0	33.0	1,382	2,550
70	C.C.	10.0	1.0	8.0	0.8	0.1	2.1	34.8	1,656	2,300
95	C.C.	11.6	1.0	8.0	0.8	0.1	2.1	36.4	1,965	2,100
120	C.C.	13.0	1.0	8.0	0.8	0.1	2.2	38.0	2,273	2,000
150	C.C.	14.6	1.0	8.0	0.8	0.1	2.2	39.6	2,592	1,850
185	C.C.	16.2	1.0	8.0	0.8	0.1	2.3	41.4	3,020	1,700
240	C.C.	18.4	1.0	8.0	0.8	0.1	2.4	43.8	3,673	1,600
300	C.C.	20.7	1.0	8.0	0.8	0.1	2.4	46.1	4,338	1,450
400	C.C.	23.5	1.0	8.0	0.8	0.1	2.5	49.1	5,259	1,300
500	C.C.	26.6	1.0	8.0	0.8	0.1	2.7	52.6	6,369	1,200

(Table 45) Three Cores

(IEC 60502)

Conductor			Thick. of Conductor Screen (mm)	Nominal Thick. of Insulation (mm)	Thick. of Insulation Screen (mm)	Thick. of Copper Screen Tape (mm)	Nominal Thick. of Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Cable Weight (kg/km)	Min. Insulation Resistance at 15.6℃ (MΩ-km)
Size (mm ²)	Shape (*1)	Outside Dia. (mm)								
50	C.C.	8.4	1.0	8.0	0.8	0.1	3.2	69.4	4,683	2,550
70	C.C.	10.0	1.0	8.0	0.8	0.1	3.3	73.3	5,546	2,300
95	C.C.	11.6	1.0	8.0	0.8	0.1	3.5	77.1	6,634	2,100
120	C.C.	13.0	1.0	8.0	0.8	0.1	3.6	80.3	7,598	2,000
150	C.C.	14.6	1.0	8.0	0.8	0.1	3.7	84.1	8,668	1,850
185	C.C.	16.2	1.0	8.0	0.8	0.1	3.8	87.6	10,000	1,700
240	C.C.	18.4	1.0	2.6	0.8	0.1	4.0	92.7	12,083	1,600
300	C.C.	20.7	1.0	2.8	0.8	0.1	4.1	97.3	14,111	1,450
400	C.C.	23.5	1.0	3.0	0.8	0.1	4.6	111.6	17,584	1,300

*1) C.C.: Compact Round Stranded Conductor.

18/30KV XLPE Insulated and PVC Sheathed Power Cables(Armoured)

(Table 46) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Round wire armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Diameter of armour wire (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
50	C.C.	8.4	8.0	-	1.8	-	3.15	-	3.4	-	92	-	10,360	-	9,470
70	C.C.	10.0	8.0	-	1.8	-	3.15	-	3.5	-	85	-	11,500	-	10,210
95	C.C.	11.6	8.0	-	1.9	-	3.15	-	3.7	-	90	-	12,960	-	11,170
120	C.C.	13.0	8.0	-	2.0	-	3.15	-	3.8	-	93	-	14,270	-	12,000
150	C.C.	14.6	8.0	-	2.0	-	3.15	-	3.9	-	97	-	15,590	-	12,780
185	C.C.	16.2	8.0	-	2.1	-	3.15	-	4.0	-	101	-	17,330	-	13,820
240	C.C.	18.4	8.0	-	2.2	-	3.15	-	4.2	-	107	-	20,200	-	15,540
300	C.C.	20.7	8.0	-	2.3	-	3.15	-	4.3	-	112	-	22,860	-	17,000
400	C.C.	23.5	8.0	-	2.4	-	3.15	-	4.6	-	121	-	26,940	-	19,470

(Table 47) Three Cores

(IEC 60502)

Conductor			Thickness of insulation (mm)	Tape armoured cable											
Size (mm²)	Shape (*1)	Outside Dia. (mm)		Thickness of seperation sheath (mm)		Thickness of Tape (mm)		Thickness of outer sheath (mm)		Approx. overall diameter (mm)		Approx. Weight of Cable (kg/km)			
												Copper conductor		Aluminium conductor	
				1C	3C	1C	3C	1C	3C	1C	3C	1C	3C	1C	3C
50	C.C.	8.4	8.0	-	1.8	-	0.5	-	3.3	-	77	-	7,160	-	6,270
70	C.C.	10.0	8.0	-	1.8	-	0.5	-	3.4	-	81	-	8,170	-	6,880
95	C.C.	11.6	8.0	-	1.9	-	0.5	-	3.5	-	85	-	9,390	-	7,600
120	C.C.	13.0	8.0	-	2.0	-	0.8	-	3.7	-	90	-	11,620	-	9,050
150	C.C.	14.6	8.0	-	2.0	-	0.8	-	3.8	-	93	-	12,830	-	10,020
185	C.C.	16.2	8.0	-	2.1	-	0.8	-	3.9	-	97	-	14,430	-	10,920
240	C.C.	18.4	8.0	-	2.2	-	0.8	-	4.1	-	104	-	17,110	-	12,450
300	C.C.	20.7	8.0	-	2.3	-	0.8	-	4.2	-	109	-	19,580	-	13,720
400	C.C.	23.5	8.0	-	2.5	-	0.8	-	4.5	-	116	-	23,200	-	15,720

*1)C.C.: Compact Round Stranded Conductor.

600V XLPE Insulated PVC Sheathed Power Cables (Nonshielded)

(Table 48) Single Core

(KSC3611, JISC3605)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (V/l min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
2.0	7/0.6	1.8	0.8	1.5	6.4	9.24	1,500	2,500	60	50	300
3.5	7/0.8	2.4	0.8	1.5	7.0	5.20	1,500	2,500	80	70	300
5.5	7/1.0	3.0	1.0	1.5	8.0	3.33	1,500	2,500	110	100	300
8	7/1.2	3.6	1.0	1.5	8.6	2.31	1,500	2,000	140	125	300
	C.C.	3.4	1.0	1.5	8.4	2.29	1,500	2,000	135	120	300
14	7/1.6	4.8	1.0	1.5	9.8	1.30	2,000	1,500	210	195	300
	C.C.	4.4	1.0	1.5	9.4	1.31	2,000	1,500	205	190	300
22	7/2.0	6.0	1.2	1.5	11.5	0.824	2,000	1,500	305	285	300
	C.C.	5.5	1.2	1.5	11.0	0.832	2,000	1,500	295	275	300
38	7/2.6	7.8	1.2	1.5	13.5	0.487	2,500	1,500	465	440	300
	C.C.	7.3	1.2	1.5	13.0	0.481	2,500	1,500	440	415	300
60	19/2.0	10.0	1.5	1.5	16.0	0.303	2,500	1,500	710	680	300
	C.C.	9.3	1.5	1.5	15.5	0.305	2,500	1,500	690	660	300
100	19/2.6	13.0	2.0	1.5	20	0.180	3,000	1,500	1,160	1,120	300
	C.C.	12.0	2.0	1.5	19	0.183	3,000	1,500	1,120	1,080	300
150	37/2.3	16.1	2.0	1.6	24	0.118	3,000	900	1,690	1,640	300
	C.C.	14.7	2.0	1.5	22	0.122	3,000	1,500	1,610	1,560	300
200	37/2.6	18.2	2.5	1.7	27	0.0922	3,000	1,000	2,160	2,100	200
	C.C.	17.0	2.5	1.7	26	0.0915	3,000	1,500	2,140	2,080	200
250	61/2.3	20.7	2.5	1.8	30	0.0722	3,000	900	2,760	2,730	200
	C.C.	19.0	2.5	1.8	28	0.0739	3,000	1,000	2,630	2,600	200
325	61/2.6	23.4	2.5	1.9	33	0.0565	3,000	800	3,480	3,400	200
	C.C.	21.7	2.5	1.9	31	0.0568	3,000	900	3,380	3,300	200
400	61/2.9	26.1	2.5	2.0	36	0.0454	3,000	700	4,270	4,180	150
	C.C.	24.1	3.0	2.0	34	0.0462	3,000	800	4,100	4,010	150
500	61/3.2	28.8	3.0	2.2	40	0.0373	3,500	800	5,210	5,090	150
	C.C.	26.9	3.0	2.1	38	0.0369	3,500	800	5,110	4,990	150
600	91/2.9	31.9	3.0	2.3	43	0.0304	3,500	700	6,290	6,170	150
	C.S.	29.5	3.0	2.3	42	0.0308	3,500	800	6,140	6,000	150
800	127/2.8	36.4	3.5	2.6	49	0.0234	3,500	800	8,240	8,110	150
	C.S.	34.0	3.5	2.5	47	0.0231	3,500	800	8,450	8,320	150
1,000	127/3.2	41.0	3.5	2.7	54	0.0179	3,500	700	10,510	10,400	150
	C.S.	38.0	3.5	2.6	51	0.0187	3,500	700	10,480	10,370	150

C.C.: Compact Round Stranded Conductor
C.S.: Segmental Compact.

600V XLPE Insulated PVC Sheathed Power Cables (Nonshielded)

(Table 49) Two Cores

(KSC3611, JISC3605)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (V/l min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
2.0	7/0.6	1.8	0.8	1.5	10.5	9.42	1,500	2,500	130	110	300
3.5	7/0.8	2.4	0.8	1.5	11.5	5.30	1,500	2,500	175	155	300
5.5	7/1.0	3.0	1.0	1.5	13.5	3.40	1,500	2,500	245	220	300
8	7/1.2	3.6	1.0	1.5	15.0	2.36	1,500	2,000	285	255	300
	C.C.	3.4	1.0	1.5	14.5	2.34	1,500	2,000	280	245	300
14	7/1.6	4.8	1.0	1.5	17.5	1.33	2,000	1,500	430	395	300
	C.C.	4.4	1.0	1.5	16.5	1.34	2,000	1,500	420	385	300
22	7/2.0	6.0	1.2	1.5	21.0	0.840	2,000	1,500	635	595	300
	C.C.	5.5	1.2	1.5	19.5	0.849	2,000	1,500	615	575	300
38	7/2.6	7.8	1.2	1.6	25	0.497	2,500	1,500	980	930	300
	C.C.	7.3	1.2	1.6	24	0.491	2,500	1,500	960	915	300
60	19/2.0	10.0	1.5	1.9	31	0.309	2,500	1,500	1,540	1,460	300
	C.C.	9.3	1.5	1.8	29	0.311	2,500	1,500	1,490	1,410	300
100	19/2.6	13.0	2.0	2.2	39	0.184	3,000	1,500	2,550	2,430	300
	C.C.	12.0	2.0	2.1	37	0.187	3,000	1,500	2,440	2,330	200
150	37/2.3	16.1	2.0	2.4	46	0.120	3,000	900	3,710	2,560	300
	C.C.	14.7	2.0	2.3	43	0.124	3,000	1,500	3,530	3,380	300
200	37/2.6	18.2	2.5	2.7	53	0.0940	3,000	1,000	4,770	4,580	200
	C.C.	17.0	2.5	2.6	50	0.0933	3,000	1,500	4,680	4,500	200
250	61/2.3	20.7	2.5	2.9	58	0.0736	3,000	900	6,090	5,860	200
	C.C.	19.0	2.5	2.8	55	0.0754	3,000	1,000	5,790	5,570	200
325	61/2.6	23.4	2.5	3.1	64	0.0576	3,000	800	7,640	7,380	200
	C.C.	21.7	2.5	3.0	61	0.0579	3,000	900	7,400	7,140	200

C.C.: Compact Round Stranded Conductor

600V XLPE Insulated PVC Sheathed Power Cables (Nonshielded)

(Table 50) Three Cores

(KSC3611, JISC3605)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (V/1 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
2.0	7/0.6	1.8	0.8	1.5	11.0	9.42	1,500	3,000	155	135	300
3.5	7/0.8	2.4	0.8	1.5	12.5	5.30	1,500	2,500	215	190	300
5.5	7/1.0	3.0	1.0	1.5	14.5	3.40	1,500	2,500	295	270	300
8	7/1.2	3.6	1.0	1.5	16.0	2.36	1,500	2,000	385	355	300
	C.C.	3.4	1.0	1.5	15.5	2.34	1,500	2,000	375	350	300
14	7/1.6	4.8	1.0	1.5	18.5	1.33	2,000	1,500	595	560	300
	C.C.	4.4	1.0	1.5	17.5	1.34	2,000	1,500	575	540	300
22	7/2.0	6.0	1.2	1.5	22	0.840	2,000	1,500	880	840	300
	C.C.	5.5	1.2	1.5	21	0.849	2,000	1,500	855	815	300
38	7/2.6	7.8	1.2	1.7	26	0.497	2,500	1,500	1,400	1,340	300
	C.C.	7.3	1.2	1.7	25	0.491	2,500	1,500	1,380	1,330	300
60	19/2.0	10.0	1.5	1.9	33	0.309	2,500	1,500	2,170	2,090	300
	C.C.	9.3	1.5	1.9	31	0.311	2,500	1,500	2,120	2,040	300
100	19/2.6	13.0	2.0	2.3	42	0.184	3,000	1,500	3,640	3,510	300
	C.C.	12.0	2.0	2.2	40	0.187	3,000	1,500	3,510	3,390	300
150	37/2.3	16.1	2.0	2.6	49	0.120	3,000	900	5,340	5,170	300
	C.C.	14.7	2.0	2.4	46	0.124	3,000	1,500	5,070	4,910	300
200	37/2.6	18.2	2.5	2.8	57	0.0940	3,000	1,000	6,860	6,650	200
	C.C.	17.0	2.5	2.7	54	0.0933	3,000	1,500	6,800	6,590	200
250	61/2.3	20.7	2.5	3.0	62	0.0736	3,000	900	8,760	8,540	200
	C.C.	19.0	2.5	2.9	59	0.0754	3,000	1,000	8,390	8,140	200
325	61/2.6	23.4	2.5	3.3	69	0.0576	3,000	800	10,980	10,680	200
	C.C.	21.7	2.5	3.1	65	0.0579	3,000	900	10,640	10,350	200

C.C.: Compact Round Stranded Conductor

600V XLPE Insulated PVC Sheathed Power Cables (Nonshielded)

(Table 51) Four Cores (KSC3611, JISC3605)

Conductor			Thick- ness of Insulation (mm)	Thick- ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (V/l min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
Nominal Cross- sectional Area (mm²)	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
2.0	7/0.6	1.8	0.8	1.5	12.0	9.42	1,500	3,000	190	170	300
3.5	7/0.8	2.4	0.8	1.5	13.5	5.30	1,500	2,500	270	245	300
5.5	7/1.0	3.0	1.0	1.5	16.0	3.40	1,500	2,500	375	345	300
8	7/1.2	3.6	1.0	1.5	17.0	2.36	1,500	2,000	490	455	300
	C.C.	3.4	1.0	1.5	16.5	2.34	1,500	2,000	480	450	300
14	7/1.6	4.8	1.0	1.5	20	1.33	2,000	1,500	765	725	300
	C.C.	4.4	1.0	1.5	19	1.34	2,000	1,500	715	680	300
22	7/2.0	6.0	1.2	1.6	24	0.840	2,000	1,500	1,150	1,100	300
	C.C.	5.5	1.2	1.6	23	0.849	2,000	1,500	1,110	1,070	300
38	7/2.6	7.8	1.2	1.8	29	0.497	2,500	1,500	1,830	1,760	300
	C.C.	7.3	1.2	1.8	28	0.491	2,500	1,500	1,800	1,740	300
60	19/2.0	10.0	1.5	2.1	37	0.309	2,500	1,500	2,860	2,760	300
	C.C.	9.3	1.5	2.0	35	0.311	2,500	1,500	2,780	2,680	300
100	19/2.6	13.0	2.0	2.5	47	0.184	3,000	1,500	4,790	4,630	300
	C.C.	12.0	2.0	2.4	44	0.187	3,000	1,500	4,620	4,470	300

C.C.: Compact Round Stranded Conductor

3,300V XLPE Insulated PVC Sheathed Power Cables (Shielded)

(Table 52) Single Core

(KSC3131, JISC3606)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
8	7/1.2	3.6	2.5	1.7	13.5	2.31	9	2,500	265	240	300
	C.C.	3.4	2.5	1.7	13.0	2.29	9	2,500	265	240	300
14	7/1.6	4.8	2.5	1.7	14.5	1.30	9	2,500	345	310	300
	C.C.	4.4	2.5	1.7	14.0	1.31	9	2,500	345	310	300
22	7/2.0	6.0	2.5	1.8	16.0	0.824	9	2,500	450	415	300
	C.C.	5.5	2.5	1.8	15.5	0.832	9	2,500	440	405	300
38	7/2.6	7.8	2.5	1.9	18.0	0.487	9	2,000	660	625	300
	C.C.	7.3	2.5	1.8	17.5	0.481	9	2,000	645	615	300
60	19/2.0	10.0	3.0	2.0	22	0.303	9	2,000	915	865	300
	C.C.	9.3	3.0	2.0	21	0.305	9	2,000	890	840	300
100	19/2.6	13.0	3.0	2.1	25	0.180	9	1,500	1,410	1,350	300
	C.C.	12.0	3.0	2.1	24	0.183	9	1,500	1,360	1,300	300
150	37/2.3	16.1	3.0	2.2	28	0.118	9	1,500	1,980	1,890	300
	C.C.	14.7	3.0	2.2	27	0.122	9	1,500	1,880	1,790	300
200	37/2.6	18.2	3.5	2.4	32	0.0922	9	1,500	2,490	2,400	200
	C.C.	17.0	3.5	2.3	30	0.0915	9	1,500	2,440	2,350	200
250	61/2.3	20.7	3.5	2.5	34	0.0722	9	1,500	3,100	2,980	200
	C.C.	19.0	3.5	2.4	32	0.0739	9	1,500	2,940	2,820	200
325	61/2.6	23.4	3.5	2.6	37	0.0565	9	1,000	3,870	3,760	200
	C.C.	21.7	3.5	2.5	35	0.0568	9	1,500	3,720	3,610	200
400	61/2.9	26.1	4.0	2.7	41	0.0454	9	1,000	4,690	4,500	150
	C.C.	24.1	4.0	2.6	39	0.0462	9	1,500	4,430	4,250	150
500	61/3.2	28.8	4.0	2.8	44	0.0373	9	900	5,610	5,450	150
	C.C.	26.9	4.0	2.7	42	0.0369	9	1,000	5,430	5,270	150
600	91/2.9	31.9	4.0	2.9	47	0.0304	9	900	6,690	6,520	150
	C.S.	29.5	4.0	2.9	45	0.0308	9	1,000	6,470	6,300	150
800	127/2.8	36.4	4.5	3.2	53	0.0234	9	900	8,660	8,460	150
	C.S.	34.0	4.5	3.1	51	0.0231	9	700	8,900	8,700	150
1,000	127/3.2	41.6	4.5	3.4	59	0.0179	9	800	11,060	10,830	150
	C.S.	38.0	4.5	3.2	55	0.0187	9	700	11,030	10,800	150

※ Insulation thickness includes the conductor shielding
 C.C.: Compact Round Stranded Conductor
 C.S.: Segmental Compact

3,300V XLPE Insulated PVC Sheathed Power Cables (Shielded)

(Table 53) Three Cores

(KSC3131, JISC3606)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
8	7/1.2	3.6	2.5	2.1	26	2.36	9	2,500	740	685	300
	C.C.	3.4	2.5	2.1	25	2.34	9	2,500	730	680	300
14	7/1.6	4.8	2.5	2.2	28	1.33	9	2,500	1,020	940	300
	C.C.	4.4	2.5	2.2	27	1.34	9	2,500	1,010	925	300
22	7/2.0	6.0	2.5	2.3	31	0.840	9	2,500	1,280	1,180	300
	C.C.	5.5	2.5	2.3	30	0.849	9	2,500	1,240	1,140	300
38	7/2.6	7.8	2.5	2.5	35	0.497	9	2,000	2,000	1,880	300
	C.C.	7.3	2.5	2.5	34	0.491	9	2,000	1,980	1,870	300
60	19/2.0	10.0	3.0	2.8	43	0.309	9	2,000	2,860	2,710	300
	C.C.	9.3	3.0	2.7	41	0.311	9	2,000	2,740	2,600	300
100	19/2.6	13.0	3.0	3.0	50	0.184	9	1,500	4,370	4,180	300
	C.C.	12.0	3.0	2.9	47	0.187	9	1,500	4,150	3,970	300
150	37/2.3	16.1	3.0	3.3	57	0.120	9	1,500	6,250	6,040	300
	C.C.	14.7	3.0	3.2	54	0.124	9	1,500	5,880	5,680	300
200	37/2.6	18.2	3.5	3.6	64	0.0940	9	1,500	7,970	7,680	200
	C.C.	17.0	3.5	3.5	62	0.0933	9	1,500	7,740	7,640	200
250	61/2.3	20.7	3.5	3.8	70	0.0736	9	1,500	10,090	9,740	200
	C.C.	19.0	3.5	3.6	66	0.0754	9	1,500	9,490	9,160	200
325	61/2.6	23.4	3.5	4.0	76	0.0576	9	1,000	12,300	11,860	200
	C.C.	21.7	3.5	3.9	73	0.0579	9	1,500	11,780	11,360	200

※ Insulation thickness includes the conductor shielding
C.C.: Compact Round Stranded Conductor

6,600V XLPE Insulated PVC Sheathed Power Cables (Shielded)

(Table 54) Single Core

(KSC3131, JISC3606)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
8	7/1.2	3.6	4.0	1.8	16.5	2.31	17	2,500	365	325	300
	C.C.	3.4	4.0	1.8	16.5	2.29	17	2,500	365	325	300
14	7/1.6	4.8	4.0	1.9	18.0	1.30	17	2,500	470	435	300
	C.C.	4.4	4.0	1.8	17.5	1.31	17	2,500	460	425	300
22	7/2.0	6.0	4.0	1.9	19.0	0.824	17	2,500	535	485	300
	C.C.	5.5	4.0	1.9	18.5	0.832	17	2,500	525	475	300
38	7/2.6	7.8	4.0	2.0	21	0.487	17	2,000	740	690	300
	C.C.	7.3	4.0	2.0	21	0.481	17	2,000	730	685	300
60	19/2.0	10.0	4.0	2.1	24	0.303	17	2,000	1,110	1,050	300
	C.C.	9.3	4.0	2.0	23	0.305	17	2,000	1,070	1,010	300
100	19/2.6	13.0	4.0	2.2	27	0.180	17	1,500	1,530	1,450	200
	C.C.	12.0	4.0	2.1	26	0.183	17	1,500	1,470	1,390	200
150	37/2.3	16.1	4.0	2.3	30	0.118	17	1,500	2,080	1,990	200
	C.C.	14.7	4.0	2.3	29	0.122	17	1,500	1,980	1,890	200
200	37/2.6	18.2	4.5	2.4	34	0.0922	17	1,500	2,590	2,490	150
	C.C.	17.0	4.5	2.4	32	0.0915	17	1,500	2,550	2,450	150
250	61/2.3	20.7	4.5	2.5	36	0.0722	17	1,500	3,220	3,100	150
	C.C.	19.0	4.5	2.5	35	0.0739	17	1,500	3,070	2,950	150
325	61/2.6	23.4	4.5	2.6	39	0.0565	17	1,000	3,890	3,770	150
	C.C.	21.7	4.5	2.6	38	0.0568	17	1,500	3,750	3,630	150
400	61/2.9	26.1	4.5	2.8	42	0.0454	17	900	4,850	4,640	150
	C.C.	24.1	4.5	2.7	40	0.0462	17	1,000	4,640	4,410	150
500	61/3.2	28.8	4.5	2.9	45	0.0373	17	900	5,690	5,510	150
	C.C.	26.9	4.5	2.8	43	0.0369	17	900	5,550	5,370	150
600	91/2.9	31.9	5.0	3.0	50	0.0304	17	900	6,900	6,720	150
	C.S.	29.5	5.0	2.9	47	0.0308	17	900	6,480	6,280	150
800	127/2.8	36.4	5.0	3.2	54	0.0234	17	800	8,760	8,560	150
	C.S.	34.0	5.0	3.1	52	0.0231	17	800	9,000	8,800	150
1,000	127/3.2	41.6	5.0	3.4	60	0.0179	17	700	11,140	10,920	150
	C.S.	38.0	5.0	3.3	56	0.0187	17	800	11,100	10,880	150

※ Insulation thickness includes the conductor shielding
 C.C.: Compact Round Stranded Conductor
 C.S.: Segmental Compact

6,600V XLPE Insulated PVC Sheathed Power Cables (Shielded)

(Table 55) Three Cores

(KSC3131, JISC3606)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
8	7/1.2	3.6	4.0	2.4	32	2.36	17	2,500	1,190	1,090	300
	C.C.	3.4	4.0	2.4	32	2.34	17	2,500	1,180	1,080	300
14	7/1.6	4.8	4.0	2.5	35	1.33	17	2,500	1,500	1,390	300
	C.C.	4.4	4.0	2.5	34	1.34	17	2,500	1,480	1,370	300
22	7/2.0	6.0	4.0	2.6	38	0.840	17	2,500	1,820	1,600	300
	C.C.	5.5	4.0	2.5	37	0.849	17	2,500	1,780	1,560	300
38	7/2.6	7.8	4.0	2.8	42	0.497	17	2,000	2,470	2,320	300
	C.C.	7.3	4.0	2.7	41	0.491	17	2,000	2,430	2,290	300
60	19/2.0	10.0	4.0	2.9	47	0.309	17	2,000	3,380	3,210	300
	C.C.	9.3	4.0	2.9	46	0.311	17	2,000	3,280	3,110	300
100	19/2.6	13.0	4.0	3.2	54	0.184	17	1,500	4,950	4,730	200
	C.C.	12.0	4.0	3.1	52	0.187	17	1,500	4,670	4,470	200
150	37/2.3	16.1	4.0	3.5	62	0.120	17	1,500	6,900	6,310	200
	C.C.	14.7	4.0	3.3	58	0.124	17	1,500	6,420	5,870	200
200	37/2.6	18.2	4.5	3.7	69	0.0940	17	1,500	8,620	8,280	150
	C.C.	17.0	4.5	3.6	66	0.0933	17	1,500	8,330	8,000	150
250	61/2.3	20.7	4.5	4.0	74	0.0736	17	1,500	10,700	10,030	150
	C.C.	19.0	4.5	3.8	71	0.0754	17	1,500	10,020	9,390	150
325	61/2.6	23.4	4.5	4.2	81	0.0576	17	1,000	13,670	13,250	150
	C.C.	21.7	4.5	4.0	77	0.0579	17	1,500	12,990	12,590	150

※ Insulation thickness includes the conductor shielding
C.C.: Compact Round Stranded Conductor

11KV XLPE Insulated PVC Sheathed Power Cables (Shielded)

(Table 56) Single Core

(Daewon Spec.)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/ 10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
14	7/1.6	4.8	5.0	1.9	20	1.30	26	5,000	520	460	300
22	7/2.0	6.0	5.0	2.0	22	0.824	26	4,000	620	560	300
38	7/2.6	7.8	5.0	2.1	24	0.487	26	3,500	820	750	300
60	19/2.0	10.0	5.0	2.5	26	0.303	26	2,500	1,090	1,020	300
	C.C.	9.3	5.0	2.1	25	0.305	26	3,000	1,060	990	300
100	19/2.6	13.0	5.0	2.5	29	0.180	26	2,000	1,550	1,450	300
	C.C.	12.0	5.0	2.2	28	0.183	26	2,500	1,500	1,410	300
150	37/2.3	16.1	5.0	2.5	33	0.118	26	1,500	2,190	2,080	300
	C.C.	14.7	5.0	2.3	31	0.122	26	2,500	2,080	1,970	300
200	37/2.6	18.2	5.0	2.5	35	0.0922	26	1,500	2,640	3,520	300
	C.C.	17.0	5.0	2.4	34	0.0915	26	2,000	2,550	2,430	300
250	61/2.3	20.7	5.0	2.5	37	0.0722	26	1,500	3,260	3,080	300
	C.C.	19.0	5.0	2.5	36	0.0739	26	2,000	3,070	2,940	300
325	61/2.6	23.4	5.0	3.0	40	0.0565	26	1,500	3,890	3,750	300
	C.C.	21.7	5.0	2.6	39	0.0568	26	2,000	3,810	3,660	300
400	61/2.9	26.1	5.0	3.0	44	0.0454	26	1,000	4,900	4,710	300
	C.C.	24.1	5.0	2.7	41	0.0462	26	1,500	4,590	4,420	300
500	61/3.2	28.8	5.0	3.0	47	0.0373	26	1,000	5,800	5,600	300
	C.C.	26.9	5.0	2.8	44	0.0369	26	1,500	5,560	5,370	300
600	91/2.9	31.9	6.0	3.0	52	0.0304	26	1,000	7,070	6,850	300
	C.S.	29.5	6.0	3.0	50	0.0308	26	1,500	6,830	6,600	300
800	127/2.8	36.4	6.0	3.5	-	0.0234	26	1,000	-	-	300
	C.S.	34.0	6.0	3.2	55	0.0231	26	1,500	8,890	8,630	300
1,000	127/3.2	41.6	6.0	3.5	-	0.0179	26	1,000	-	-	300
	C.S.	38.0	6.0	3.4	59	0.0187	26	1,500	10,870	10,580	300

※ Insulation thickness includes the conductor shielding
 C.C.: Compact Round Stranded Conductor
 C.S.: Segmental Compact

11KV XLPE Insulated PVC Sheathed Power Cables (Individual Shielded)

(Table 57) Three Cores

(Daewon Spec.)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (V/l min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
14	7/1.6	4.8	5.0	2.6	39	1.33	26	5,000	1,700	1,540	300
22	7/2.0	6.0	5.0	2.8	42	0.840	26	4,000	2,070	1,900	300
38	7/2.6	7.8	5.0	2.9	44	0.497	26	3,500	2,710	5,220	300
60	19/2.0	10.0	5.0	3.5	52	0.309	26	2,500	3,650	3,430	300
	C.C.	9.3	5.0	3.1	50	0.311	26	3,000	3,540	3,310	300
100	19/2.6	13.0	5.0	3.5	60	0.184	26	2,000	5,340	5,030	300
	C.C.	12.0	5.0	3.3	57	0.187	26	2,500	4,970	4,700	300
150	37/2.3	16.1	5.0	3.5	66	0.120	26	1,500	7,230	6,890	300
	C.C.	14.7	5.0	3.5	64	0.124	26	2,500	6,940	6,610	300
200	37/2.6	18.2	5.0	4.0	71	0.0942	26	1,500	8,730	8,370	300
	C.C.	17.0	5.0	3.7	69	0.0933	26	2,000	8,370	8,000	300
250	61/2.3	20.7	5.0	4.0	77	0.0736	26	1,500	10,900	10,440	300
	C.C.	19.0	5.0	3.9	74	0.0754	26	2,000	10,160	9,710	300
325	61/2.6	23.4	5.0	4.5	84	0.0576	26	1,500	13,320	12,830	300
	C.C.	21.7	5.0	4.2	81	0.0579	26	2,000	12,570	12,080	300

※ Insulation thickness includes the conductor shielding
C.C.: Compact Round Stranded Conductor

15KV XLPE Insulated PVC Sheathed Power Cables (Shielded)

(Table 58) Single Core

(Daewon Spec.)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
22	7/2.0	6.0	6.5	2.1	25	0.824	38	5,000	740	670	300
38	7/2.6	7.8	6.5	2.2	27	0.487	38	4,000	960	880	300
60	19/2.0	10.0	6.5	2.5	29	0.303	38	3,000	1,220	1,140	300
	C.C.	9.3	6.5	2.2	28	0.305	38	3,500	1,220	1,130	300
100	19/2.6	13.0	6.5	2.5	33	0.180	38	2,500	1,770	1,650	300
	C.C.	12.0	6.5	2.4	32	0.183	38	3,000	1,670	1,560	300
150	37/2.3	16.1	6.5	2.5	36	0.118	38	2,000	2,360	2,230	300
	C.C.	14.7	6.5	2.5	34	0.122	38	3,000	2,240	2,110	300
200	37/2.6	18.2	6.5	3.0	38	0.0922	38	2,000	2,820	2,690	300
	C.C.	17.0	6.5	2.6	37	0.0915	38	2,500	2,740	2,610	300
250	61/2.3	20.7	6.5	3.0	41	0.0722	38	1,500	3,550	3,370	300
	C.C.	19.0	6.5	2.6	39	0.0739	38	2,500	3,250	3,110	300
325	61/2.6	23.4	6.5	3.0	44	0.0565	38	1,500	4,290	4,110	300
	C.C.	21.7	6.5	2.7	42	0.0568	38	2,000	3,960	3,930	300
400	61/2.9	26.1	6.5	3.0	47	0.0454	38	1,500	5,120	4,920	300
	C.C.	24.1	6.5	2.8	44	0.0462	38	2,000	4,990	4,810	300
500	61/3.2	28.8	6.5	3.0	49	0.0373	38	1,500	6,070	-	300
	C.C.	26.9	6.5	2.9	47	0.0369	38	2,000	5,780	5,580	300
600	91/2.9	31.9	7.5	3.5	54	0.0304	38	1,500	7,400	-	300
	C.S.	29.5	7.5	3.1	53	0.0308	38	2,000	7,040	6,810	300
800	127/2.8	36.4	7.5	3.5	59	0.0234	38	1,500	9,250	-	300
	C.S.	34.0	7.5	3.3	58	0.0231	38	1,500	9,160	8,880	300
1,000	127/3.2	41.6	7.5	3.5	65	0.0179	38	1,500	11,820	-	300
	C.S.	38.0	7.5	3.5	62	0.0187	38	1,500	11,180	10,870	300

※ Insulation thickness includes the conductor shielding
 C.C.: Compact Round Stranded Conductor
 C.S.: Segmental Compact

15KV XLPE Insulated PVC Sheathed Power Cables (Individual Shielded)

(Table 59) Three Cores (Daewon Spec.)

Conductor			Thick- ness of Insulation (mm)	Thick- ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/ 10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
Nominal Cross- sectional Area (mm²)	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
22	7/2.0	6.0	6.5	4.0	50	0.840	38	5,000	2,550	2,340	300
38	7/2.6	7.8	6.5	3.2	55	0.497	38	4,000	3,310	3,060	300
60	19/2.0	10.0	6.5	4.0	59	0.309	38	3,500	4,220	-	300
	C.C.	9.3	6.5	3.3	58	0.311	38	3,500	4,160	3,890	300
100	19/2.6	13.0	6.5	4.0	66	0.184	38	3,000	5,940	-	300
	C.C.	12.0	6.5	3.6	64	0.187	38	3,000	5,630	5,290	300
150	37/2.3	16.1	6.5	4.0	72	0.120	38	3,000	7,870	-	300
	C.C.	14.7	6.5	3.8	71	0.124	38	3,000	7,480	7,160	300
200	37/2.6	18.2	6.5	4.0	77	0.0942	38	2,500	9,380	-	300
	C.C.	17.0	6.5	4.0	76	0.0933	38	2,500	9,150	8,710	300
250	61/2.3	20.7	6.5	4.5	82	0.0736	38	2,500	-	-	300
	C.C.	19.0	6.5	4.2	81	0.0754	38	2,500	11,070	10,570	300
325	61/2.6	23.4	6.5	4.5	88	0.0576	38	2,000	-	-	300
	C.C.	21.7	6.5	4.4	87	0.0579	38	2,000	13,260	12,760	300

※ Insulation thickness includes the conductor shielding
 C.C.: Compact Round Stranded Conductor

22KV XLPE Insulated PVC Sheathed Power Cables (Shielded)

(Table 60) Single Core

(Daewon Spec.)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
60	19/2.0	10.0	7.0	2.5	30	0.303	44	3,500	1,560	1,440	200
	C.C.	9.3	7.0	2.3	30	0.305	44	4,000	1,300	1,200	200
100	19/2.6	13.0	7.0	2.5	33	0.180	44	3,000	2,060	1,930	200
	C.C.	12.0	7.0	2.4	33	0.183	44	3,500	1,750	1,640	200
150	37/2.3	16.1	7.0	2.5	36	0.118	44	2,500	2,680	2,540	200
	C.C.	14.7	7.0	2.5	35	0.122	44	3,000	2,330	2,200	200
200	37/2.6	18.2	7.0	3.0	39	0.0922	44	2,000	3,260	3,080	200
	C.C.	17.0	7.0	2.6	38	0.0915	44	2,500	2,850	2,710	200
250	61/2.3	20.7	7.0	3.0	42	0.0722	44	2,000	3,920	3,720	200
	C.C.	19.0	7.0	2.6	40	0.0739	44	2,500	3,380	3,230	200
325	61/2.6	23.4	7.0	3.0	44	0.0565	44	2,000	4,690	4,480	200
	C.C.	21.7	7.0	2.8	43	0.0568	44	2,000	4,140	3,970	200
400	61/2.9	26.1	7.0	3.0	47	0.0454	44	1,500	5,540	5,320	200
	C.C.	24.1	7.0	2.9	46	0.0462	44	2,000	4,940	4,730	200
500	61/3.2	28.8	7.0	3.0	50	0.0373	44	1,500	6,140	5,920	200
	C.C.	26.9	7.0	3.0	49	0.0369	44	2,000	5,940	5,730	200
600	91/2.9	31.9	8.0	3.5	55	0.0304	44	1,500	7,450	7,200	200
	C.S.	29.5	8.0	3.2	54	0.0308	44	2,000	7,290	7,040	200
800	127/2.8	36.4	8.0	3.5	60	0.0234	44	1,500	9,300	9,040	200
	C.S.	34.0	8.0	3.4	59	0.0231	44	2,000	9,390	9,100	200
1,000	127/3.2	41.6	8.0	3.5	66	0.0179	44	1,500	11,880	11,540	200
	C.S.	38.0	8.0	3.5	63	0.0187	44	1,500	11,410	11,090	200

※ Insulation thickness includes the conductor shielding
 C.C.: Compact Round Stranded Conductor
 C.S.: Segmental Compact

22KV XLPE Insulated PVC Sheathed Power Cables (Individual Shielded)

(Table 61) Three Cores (Daewon Spec.)

Conductor			Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
Nominal Cross-sectional Area (mm²)	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
60	19/2.0	10.0	7.0	3.5	61	0.309	44	3,500	4,540	4,220	200
	C.C.	9.3	7.0	3.4	60	0.311	44	4,000	4,390	4,090	200
100	19/2.6	13.0	7.0	4.0	69	0.184	44	3,000	6,310	5,900	200
	C.C.	12.0	7.0	3.7	67	0.187	44	3,500	5,910	5,550	200
150	37/2.3	16.1	7.0	4.0	75	0.120	44	2,500	8,290	7,830	200
	C.C.	14.7	7.0	3.9	73	0.124	44	3,000	7,810	7,400	200
200	37/2.6	18.2	7.0	4.5	80	0.0942	44	2,500	9,820	9,330	200
	C.C.	17.0	7.0	4.1	78	0.0933	44	2,500	9,520	9,050	200
250	61/2.3	20.7	7.0	4.5	85	0.0736	44	2,500	11,890	11,370	200
	C.C.	19.0	7.0	4.3	84	0.0754	44	2,500	11,390	10,860	200
325	61/2.6	23.4	7.0	4.5	91	0.0576	44	2,000	14,330	14,770	200
	C.C.	21.7	7.0	4.5	90	0.0579	44	2,000	13,860	13,270	200

※ Insulation thickness includes the conductor shielding
C.C.: Compact Round Stranded Conductor

22.9KV Concentric Neutral Type XLPE Insulated PVC Sheathed Power Cables (Longitudinal and Radial Water Blocking)

(Table 62) Single Core

(Daewon Spec.)

Conductor			Min Avg. Thickness of Insulation (mm)	Thickness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/5min)	Min Insulation Resistance at 20℃ (MΩ · Km)	Approx. Cable weight (kg/km)	Standard Reel Length (m)
Nominal Cross-sectional Area (mm ²)	Shape (mm)	Outside Dia. (mm)								
60	C.C.	9.3	6.6	3.0	36	0.305	52	3,000	1,600	200
200	C.C.	17.0	6.6	3.0	45	0.0915	52	2,000	3,580	200
325	C.C.	21.7	6.6	3.0	51	0.0568	52	2,000	5,320	200
600	C.C.	29.5	6.6	4.0	61	0.0308	52	1,500	9,450	200

22.9KV Concentric Neutral Type XLPE Insulated Flame Retardant HF-PO Sheathed Power Cables (Longitudinal and Radial Water Blocking)

(Table 63) Single Core

(Daewon Spec.)

Conductor			Min Avg. Thickness of Insulation (mm)	Thickness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/5min)	Min Insulation Resistance at 20℃ (MΩ · Km)	Approx. Cable weight (kg/km)	Standard Reel Length (m)
Nominal Cross-sectional Area (mm ²)	Shape (mm)	Outside Dia. (mm)								
60	C.C.	9.3	6.6	3.0	36	0.305	52	3,000	1,560	200
200	C.C.	17.0	6.6	3.0	45	0.0915	52	2,000	3,560	200
325	C.C.	21.7	6.6	3.0	51	0.0568	52	2,000	5,270	200
600	C.C.	29.5	6.6	4.0	61	0.0308	52	1,500	9,410	200

22.9KV Concentric Neutral Type XLPE Tree Retardant XLPE Insulated PVC Sheathed Power Cables (Longitudinal and Radial Water Blocking)

(Table 64) Single Core

(Daewon Spec.)

Conductor			Min Avg. Thickness of Insulation (mm)	Thickness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/5min)	Min Insulation Resistance at 20℃ (MΩ · Km)	Approx. Cable weight (kg/km)	Standard Reel Length (m)
Nominal Cross-sectional Area (mm ²)	Shape (mm)	Outside Dia. (mm)								
60	C.C.	9.3	6.6	3.0	36	0.305	52	3,000	1,660	200
200	C.C.	17.0	6.6	3.0	45	0.0915	52	2,000	3,660	200
325	C.C.	21.7	6.6	3.0	51	0.0568	52	2,000	5,430	200
600	C.C.	29.5	6.6	4.0	61	0.0308	52	1,500	9,590	200

6/10KV XLPE Insulated and PVC Sheathed Power Cables (Armoured) (Water Blocking Cables)

(Table 65) Three Cores

(IEC 60502)

Conductor			Double Steel Tape Armoured Cable						
Size (mm ²)	Shape (*1)	Outside Dia. (mm)	Thickness of Insulation (mm)	Thickness of Inner Covering (mm)	Thickness of Tape (mm)	Thickness of outer sheath (mm)	Approx. overall dia. (mm)	Approx. weight of cable (kg/km)	
								Copper conductor	Aluminium conductor
25	C.C.	6.0	3.4	1.3	0.5	2.3	46	3,100	2,480
35	C.C.	7.1	3.4	1.3	0.5	2.4	48	3,780	3,040
50	C.C.	8.4	3.4	1.4	0.5	2.5	51	4,400	3,410
70	C.C.	10.0	3.4	1.4	0.5	2.7	55	5,430	3,990
95	C.C.	11.6	3.4	1.5	0.5	2.8	58	6,660	4,660
120	C.C.	13.0	3.4	1.6	0.5	2.9	62	7,720	5,220
150	C.C.	14.6	3.4	1.6	0.5	3.0	65	8,960	5,870
185	C.C.	16.2	3.4	1.7	0.5	3.1	69	10,580	6,690
240	C.C.	18.0	3.4	1.8	0.5	3.3	75	13,420	7,940
300	C.C.	20.7	3.4	1.9	0.5	3.5	80	15,310	9,190

12/20KV XLPE Insulated and PVC Sheathed Power Cables (Armoured) (Water Blocking Cables)

(Table 66) Three Cores

(IEC 60502)

Conductor			Double Steel Tape Armoured Cable						
Size (mm ²)	Shape (*1)	Outside Dia. (mm)	Thickness of Insulation (mm)	Thickness of Inner Covering (mm)	Thickness of Tape (mm)	Thickness of outer sheath (mm)	Approx. overall dia. (mm)	Approx. weight of cable (kg/km)	
								Copper conductor	Aluminium conductor
35	C.C.	7.1	5.5	1.5	0.5	2.8	58	4,175	4,240
50	C.C.	8.4	5.5	1.6	0.5	2.9	61	5,652	4,660
70	C.C.	10.0	5.5	1.6	0.5	3.0	65	6,760	5,310
95	C.C.	11.6	5.5	1.7	0.5	3.1	68	8,080	6,080
120	C.C.	13.0	5.5	1.8	0.5	3.2	72	9,230	6,720
150	C.C.	14.6	5.5	1.8	0.5	3.3	75	10,550	7,950
185	C.C.	16.2	5.5	1.9	0.5	3.4	79	12,250	8,360
240	C.C.	18.0	5.5	2.1	0.8	3.7	86	14,760	9,680

18/30KV XLPE Insulated and PVC Sheathed Power Cables (Armoured) (Water Blocking Cables)

(Table 67) Three Cores

(IEC 60502)

Conductor			Double Steel Tape Armoured Cable						
Size (mm ²)	Shape (*1)	Outside Dia. (mm)	Thickness of Insulation (mm)	Thickness of Inner Covering (mm)	Thickness of Tape (mm)	Thickness of outer sheath (mm)	Approx. overall dia. (mm)	Approx. weight of cable (kg/km)	
								Copper conductor	Aluminium conductor
50	C.C.	8.4	8.0	1.8	0.5	3.3	75	9,100	7,650
70	C.C.	10.0	8.0	1.8	0.5	3.4	78	10,500	8,510
95	C.C.	11.6	8.0	1.9	0.5	3.5	83	12,000	9,120
120	C.C.	13.0	8.0	2.0	0.8	3.7	87	13,000	9,620
150	C.C.	14.6	8.0	2.0	0.8	3.8	90	14,500	10,440
185	C.C.	16.2	8.0	2.1	0.8	3.9	94	16,100	11,400
240	C.C.	18.0	8.0	2.2	0.8	4.1	100	19,100	13,000

※ 1) C.C.: Compact Round Stranded Conductor

33KV XLPE Insulated PVC Sheathed Power Cables (Shielded)

(Table 68) Single Core

(Daewon Spec.)

Nominal Cross-sectional Area (mm ²)	Conductor		Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
60	19/2.0	10.0	9.0	2.5	37	0.303	63	4,500	1,790	1,650	200
	C.C.	9.3	9.0	2.5	36	0.305	63	4,500	1,660	1,540	200
100	19/2.6	13.0	9.0	3.0	41	0.180	63	3,500	2,410	2,230	200
	C.C.	12.0	9.0	2.6	39	0.183	63	4,000	2,140	2,000	200
150	37/2.3	16.1	9.0	3.0	45	0.118	63	3,500	3,050	2,850	200
	C.C.	14.7	9.0	2.7	42	0.122	63	3,500	2,750	2,590	200
200	37/2.6	18.2	9.0	3.0	47	0.0922	63	3,000	3,590	3,380	200
	C.C.	17.0	9.0	2.8	44	0.0915	63	3,000	3,300	3,120	200
250	61/2.3	20.7	9.0	3.0	50	0.0722	63	3,000	4,260	4,030	200
	C.C.	19.0	9.0	2.9	47	0.0739	63	3,000	3,860	3,660	200
325	61/2.6	23.4	9.0	3.0	52	0.0565	63	2,500	5,040	4,810	200
	C.C.	21.7	9.0	3.0	49	0.0568	63	2,500	4,650	4,430	200
400	61/2.9	26.1	9.0	3.5	56	0.0454	63	2,500	6,040	5,750	200
	C.C.	24.1	9.0	3.1	52	0.0462	63	2,500	5,470	5,240	200
500	61/3.2	28.8	9.0	3.5	59	0.0373	63	2,500	7,000	6,690	200
	C.C.	26.9	9.0	3.2	55	0.0369	63	2,500	6,500	6,240	200
600	91/2.9	31.9	10.0	3.5	64	0.0304	63	2,500	8,380	8,040	200
	C.S.	29.5	10.0	3.4	60	0.0308	63	2,500	7,900	7,600	200
800	127/2.8	36.4	10.0	4.0	69	0.0234	63	2,000	10,460	10,050	200
	C.S.	34.0	10.0	3.6	65	0.0231	63	2,000	10,060	9,720	200
1,000	127/3.2	41.6	10.0	4.0	75	0.0179	63	2,000	12,970	12,520	200
	C.S.	38.0	10.0	3.8	69	0.0187	63	2,000	12,150	11,760	200

※ Insulation thickness includes the conductor shielding
 C.C.: Compact Round Stranded Conductor
 C.S.: Segmental Compact

33KV XLPE Insulated PVC Sheathed Power Cables (Individual Shielded)

(Table 69) Three Cores (Daewon Spec.)

Conductor			Thick-ness of Insulation (mm)	Thick-ness of Sheath (mm)	Approx. Overall Dia. (mm)	Conductor Resistance at 20℃ (Ω/Km)	AC Test Voltage (KV/ 10 min)	Insulation Resistance at 20℃ (MΩ · Km)	Calculated Weight(kg/km)		Standard Reel Length (m)
Nominal Cross-sectional Area (mm²)	No./Dia. (mm)	Outside Dia. (mm)							PVC Sheath	PE Sheath	
60	19/2.0	10.0	9.0	4.0	78	0.309	63	4,500	6,400	5,930	200
	C.C.	9.3	9.0	3.9	74	0.311	63	4,500	5,850	5,430	200
100	19/2.6	13.0	9.0	4.5	86	0.184	63	4,000	8,350	7,770	200
	C.C.	12.0	9.0	4.2	81	0.187	63	4,000	7,560	7,070	200
150	37/2.3	16.1	9.0	4.5	92	0.120	63	3,500	10,480	9,850	200
	C.C.	14.7	9.0	4.4	87	0.124	63	3,500	9,620	9,060	200
200	37/2.6	18.2	9.0	5.0	99	0.0940	63	3,000	12,490	11,750	200
	C.C.	17.0	9.0	4.6	93	0.0933	63	3,000	11,440	10,820	200
250	61/2.3	20.7	9.0	5.0	104	0.0736	63	3,000	14,710	13,920	200
	C.C.	19.0	9.0	4.8	98	0.0754	63	3,000	13,310	12,620	200
325	61/2.6	23.4	9.0	5.0	110	0.0576	63	2,500	17,310	16,470	150
	C.C.	21.7	9.0	5.0	104	0.0579	63	2,500	15,930	15,150	150

※ Insulation thickness includes the conductor shielding
C.C.: Compact Round Stranded Conductor

TEST REQUIREMENTS

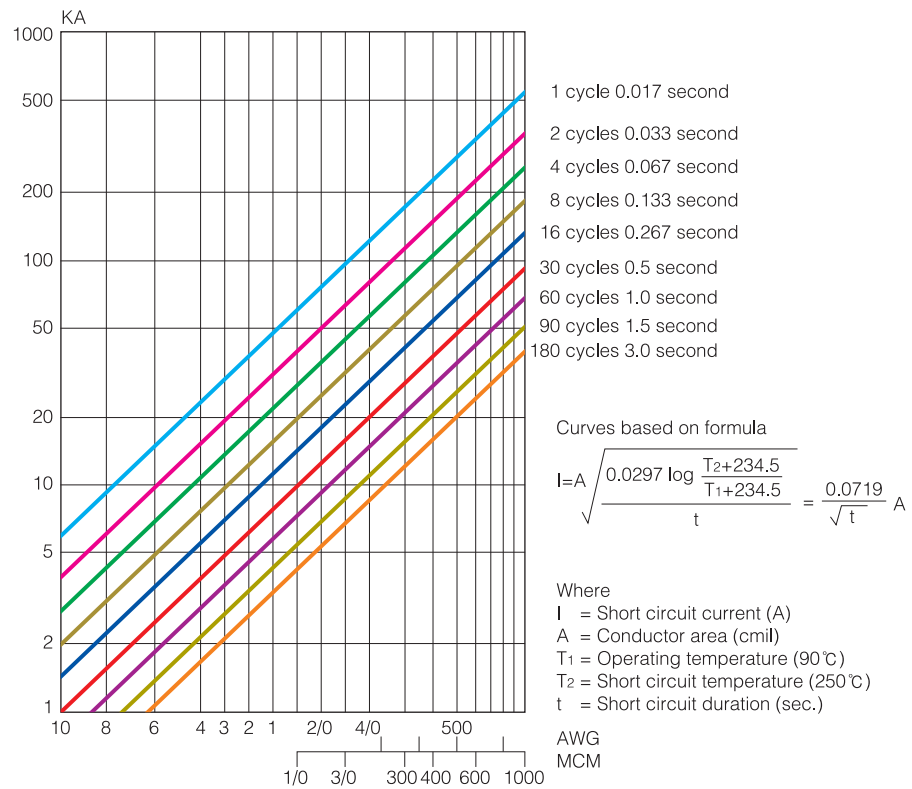
Test Item SPEC.		IEC 60502		ICEA-NEMA S-66-524		
Drum Test	Conductor resistance	As specified		As specified		
	A.C voltage withstand	1 - 6kv cables: 2.5 Uo + 2kv for 5min 10 - 30kv cables: 2.5 Uo for 5min		Circuit voltage	100%	133%
				0 - 0.6kv 3.5 - 10kv for 5min		
				- 5kv 5.5 - 13kv for 5min		
				- 8kv	18kv for 5min	22kv for 5min
				- 15kv	27kv for 5min	33kv for 5min
				- 25kv	38kv for 5min	49kv for 5min
				- 28kv	42kv for 5min	
				- 35kv	49kv for 5min	
	Insulation resistance (p) or resistivity (R)	Not required		- 2kv cables: K > 10,000 at 15.6℃ - 35kv cables: K > 20,000 at 15.6℃		
Power factor	Not required		Not required			
Partial discharge (P.D.)	3 - 30kv cables: not more than 20p.C at 1.5Uo		P.D. extinction voltage level			
			Voltage	100%	133%	
			2 - 5kv	4	5	
			- 8kv	6	8	
			- 15kv	11	15	
			- 25kv	19	26	
			- 28kv	21	-	
- 35kv	26	-				
Sample Test (Type test for IEC)	Impulse	Uo/U kv	Applied volt. kv	Each ± 10 shots at 95℃ After the above, A.C. 15min at 2.5Uo No breakdown shall occur. (Type test only)		Not required
		3.6/6	60			
		6/10	75			
		8.7/15	95			
		12/20	125			
		18/30	170			
	A.C. long time	10 - 30kv cables: at 3Uo 4 hrs. NO breakdown shall occur. (Sample test and/or Type test only)		Not required		
Power factor	6 - 30kv cables: tanδ < 40×10 ⁻⁴ tanδ < 20×10 ⁻⁴ between 0.5Uo - 2Uo		Capacity and power factor 5,001V and above e≤3.5, tanδ < 2.0% at Uo			
	6 - 30kv cables: tanδ < 40×10 ⁻⁴ at 2kv room temp. tanδ < 80×10 ⁻⁴ at 2kv 90℃ (Type test only)					
Partial discharge	6kv cable and above not more than 20 p.C at 1.5Uo (Type test only)		Not required			
Void, contaminant	Not required		Not required			

KS, JIS		Daewon Wire & Cable		AEIC (U.S.A) C55-81																															
Drum Test	As specified	As specified		As specified																															
	0.6kv cable: 1.5 - 3.5kv/1min 3.3kv cable: 9kv/1min 6.6kv cable: 17kv/10min	11kv cables: 26kv for 10min 15kv cables: 32kv for 10min 22kv cables: 44kv for 10min 33kv cables: 63kv for 10min		Same as ICEA																															
	As specified	As specified		Not required																															
	Not required	tanδ < 0.3% at Uo for 11, 15, 22kv tanδ < 0.3% at Uo and 2Uo for 22kv		Not required																															
	Not required	22kv and 33kv cable only not more than 15p.C at 23kv for 22kv cable at 34.5kv for 33kv cable		To be less than the following in pico coulomb <table><tr><td>Voltage</td><td>1.5Uo</td><td>2.0Uo</td><td>3.0Uo</td><td>4.0Uo</td></tr><tr><td>P.D. in p.C.</td><td>5</td><td>5</td><td>27.5</td><td>50</td></tr></table>					Voltage	1.5Uo	2.0Uo	3.0Uo	4.0Uo	P.D. in p.C.	5	5	27.5	50																	
Voltage	1.5Uo	2.0Uo	3.0Uo	4.0Uo																															
P.D. in p.C.	5	5	27.5	50																															
Sample Test (Type test for IEC)	Not required	<table><tr><td>U kv</td><td>Applied Volt (kv)</td></tr><tr><td>11</td><td>140</td></tr><tr><td>15</td><td>190</td></tr><tr><td>22</td><td>240</td></tr><tr><td>33</td><td>320</td></tr></table>	U kv	Applied Volt (kv)	11	140	15	190	22	240	33	320	Each - 3 shots No breakdown shall occur.	Oualification BIL level test at 25℃ & 130℃ ±3 shots at BIL level → 3 shots at each 25% BIL step up unit B.D. No breakdown shall occur. at 1.25 × BIL <table><tr><td>U kv</td><td>BIL kv</td></tr><tr><td>5</td><td>60</td></tr><tr><td>8</td><td>95</td></tr><tr><td>15</td><td>110</td></tr><tr><td>25</td><td>150</td></tr><tr><td>28</td><td>150</td></tr><tr><td>35</td><td>200</td></tr><tr><td>46</td><td>250</td></tr><tr><td>69</td><td>350</td></tr></table>				U kv	BIL kv	5	60	8	95	15	110	25	150	28	150	35	200	46	250	69	350
	U kv	Applied Volt (kv)																																	
	11	140																																	
	15	190																																	
	22	240																																	
	33	320																																	
U kv	BIL kv																																		
5	60																																		
8	95																																		
15	110																																		
25	150																																		
28	150																																		
35	200																																		
46	250																																		
69	350																																		
Not required	<table><tr><td>U kv</td><td>Applied Volt (kv)</td></tr><tr><td>11</td><td>140</td></tr><tr><td>15</td><td>190</td></tr><tr><td>22</td><td>240</td></tr><tr><td>33</td><td>320</td></tr></table>	U kv	Applied Volt (kv)	11	140	15	190	22	240	33	320	For 1 hr No breakdown shall occur.	Oualification test at 200V/mil 4 hrs. → 300V/mil 1 hr. → 360V/mil 1 hr. → 40V/mil 1/2 hrs. step up to 480V/mil raise up. No breakdown shall occur. at least 300V/mil 1 hr.																						
U kv	Applied Volt (kv)																																		
11	140																																		
15	190																																		
22	240																																		
33	320																																		
Not required	tanδ < 0.4% at Uo and 2Uo at room temp., 60℃ 90℃		Oualification test Initial at 1.5, 2, 3Uo tanδ < 0.1% unfilled tanδ < 0.5% unfilled after above. heat cycle test 2Uo 21 cycles and 3Uo 21 cycles (8hrs. on. 16 hrs. off, at 90℃ and 130℃ respectively) No partial discharge exceeds in p.C <table><tr><td>Volt</td><td>1.5Uo</td><td>2.0Uo</td><td>3.0Uo</td><td>4.0Uo</td></tr><tr><td>p.C.max</td><td>5</td><td>5</td><td>27.5</td><td>50</td></tr></table> Production sampling at room temp., 90℃ 6hrs., 130℃ 6hrs., room temp, tanδ < 1.5% at room temp, at Uo				Volt	1.5Uo	2.0Uo	3.0Uo	4.0Uo	p.C.max	5	5	27.5	50																			
Volt	1.5Uo	2.0Uo	3.0Uo	4.0Uo																															
p.C.max	5	5	27.5	50																															
Not required	Not required		Oualification test <table><tr><td>Volt</td><td>1.5Uo</td><td>2.0Uo</td><td>3.0Uo</td><td>4.0Uo</td></tr><tr><td>p.C.max</td><td>5</td><td>5</td><td>27.5</td><td>50</td></tr></table> at room temp.				Volt	1.5Uo	2.0Uo	3.0Uo	4.0Uo	p.C.max	5	5	27.5	50																			
Volt	1.5Uo	2.0Uo	3.0Uo	4.0Uo																															
p.C.max	5	5	27.5	50																															
Not required	Void Size : < 0.13mm Contaminant : < 30Each/16cm³		Production sampling test <table><tr><td>Volt</td><td>Contaminant</td><td colspan="3">Translucents</td></tr><tr><td>< 3mils</td><td>< 7mils</td><td colspan="3">< 50mils</td></tr></table>				Volt	Contaminant	Translucents			< 3mils	< 7mils	< 50mils																					
Volt	Contaminant	Translucents																																	
< 3mils	< 7mils	< 50mils																																	

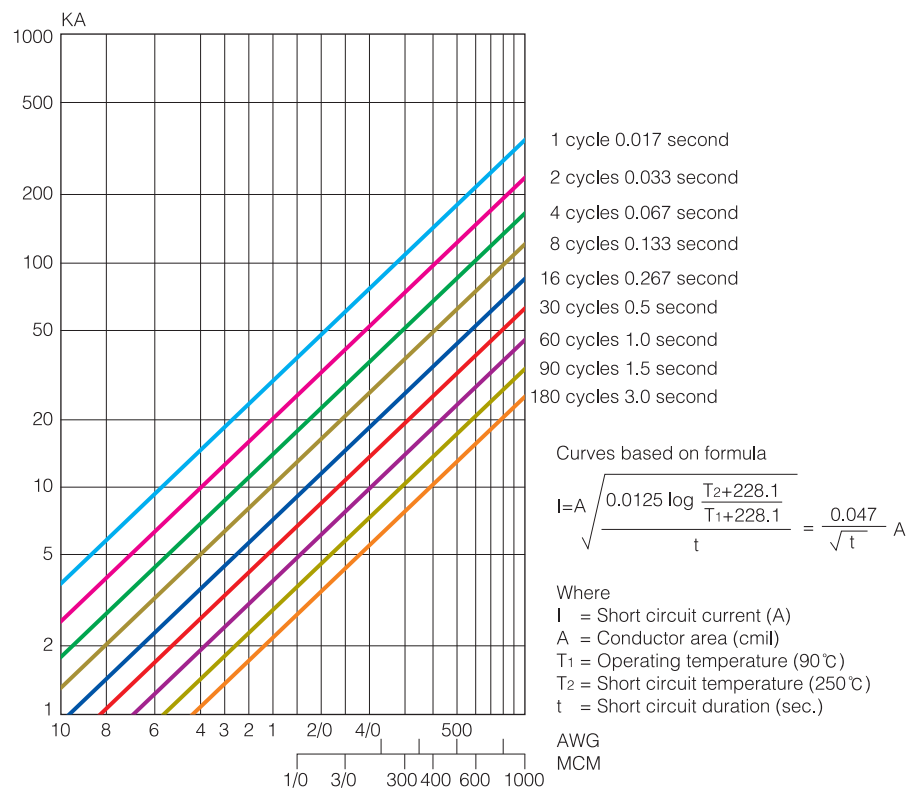
SHORT CIRCUIT CURRENT

(ICEA S-66-524)

Copper Conductor



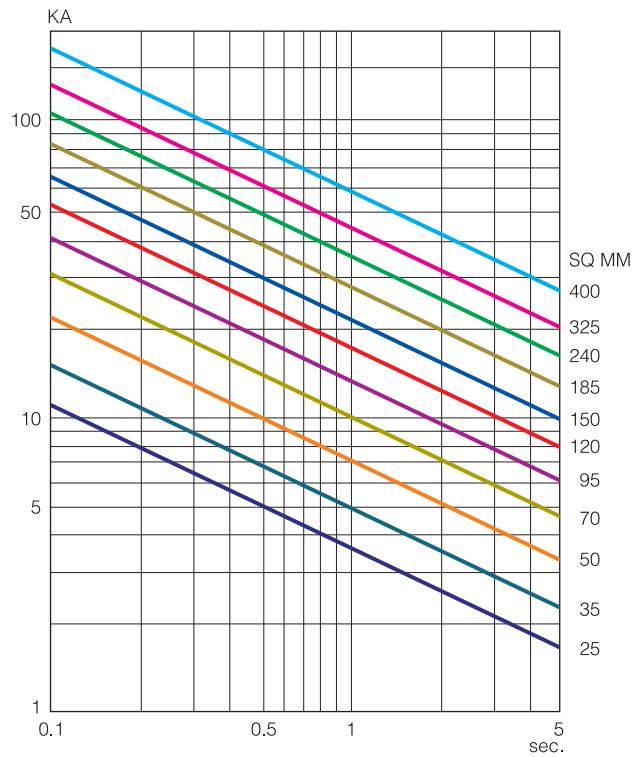
Aluminium Conductor



SHORT CIRCUIT CURRENT

(IEC 502-2)

Copper Conductor



Curves based on formula

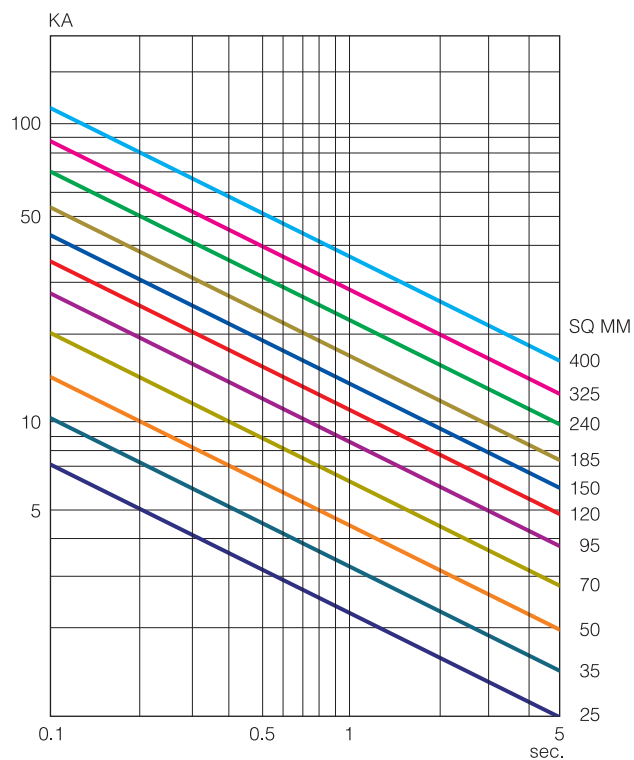
$$I = A \sqrt{\frac{0.115 \log \frac{T_2 + 234.5}{T_1 + 234.5}}{t}}$$

$$= \frac{0.141}{\sqrt{t}} A$$

Where

I = Short circuit current (KA)
 A = Conductor area (mm²)
 T₁ = Operating temperature (90°C)
 T₂ = Short circuit temperature (250°C)
 t = Short circuit duration (sec.)

Aluminium Conductor



Curves based on formula

$$I = A \sqrt{\frac{0.0486 \log \frac{T_2 + 228.1}{T_1 + 228.1}}{t}}$$

$$= \frac{0.0927}{\sqrt{t}} A$$

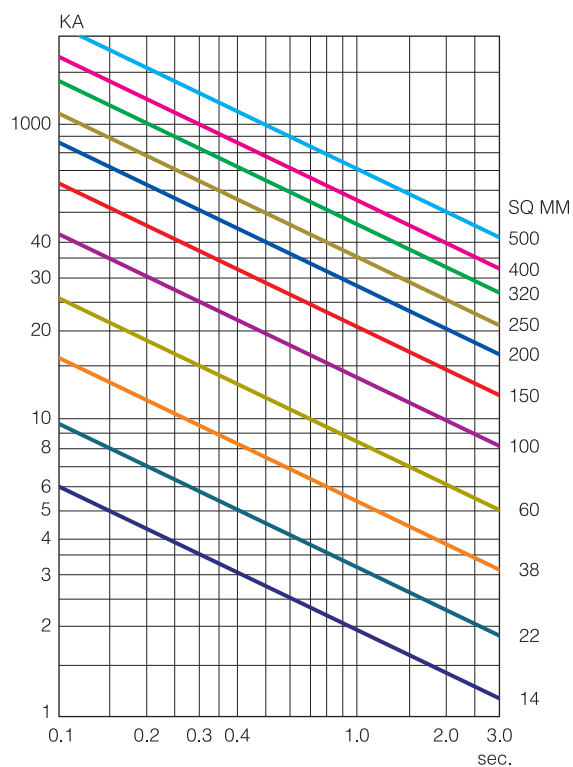
Where

I = Short circuit current (KA)
 A = Conductor area (mm²)
 T₁ = Operating temperature (90°C)
 T₂ = Short circuit temperature (250°C)
 t = Short circuit duration (sec.)

SHORT CIRCUIT CURRENT

(KS, JIS & Daewon Spec.)

Copper Conductor



Curves based on formula

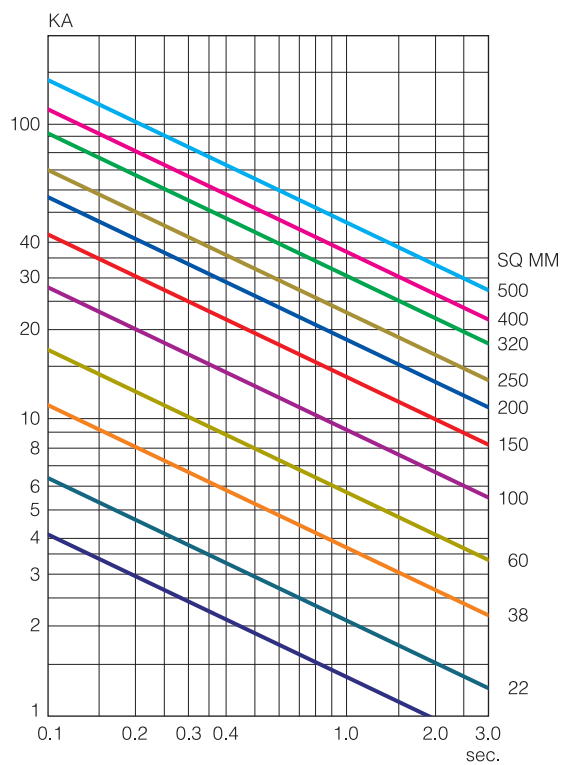
$$I = A \sqrt{\frac{0.115 \log \frac{T_2 + 234.5}{T_1 + 234.5}}{t}}$$

$$= \frac{0.141}{\sqrt{t}} A$$

Where

I = Short circuit current (KA)
 A = Conductor area (mm²)
 T₁ = Operating temperature (90°C)
 T₂ = Short circuit temperature (250°C)
 t = Short circuit duration (sec.)

Aluminium Conductor



Curves based on formula

$$I = A \sqrt{\frac{0.0486 \log \frac{T_2 + 228.1}{T_1 + 228.1}}{t}}$$

$$= \frac{0.0927}{\sqrt{t}} A$$

Where

I = Short circuit current (KA)
 A = Conductor area (mm²)
 T₁ = Operating temperature (90°C)
 T₂ = Short circuit temperature (250°C)
 t = Short circuit duration (sec.)

HANDLING AND INSTALLATION OF XLPE CABLES

1. Minimum bending radius

Permissible maximum pulling tension

For safety installation without damaging electrical and physical properties, the following minimum bending radius and permissible maximum pulling tension must be observed:

Minimum bending radius

D: Overall dia. of cable

Type of cable	Single core		Multi core
	Round conductor	Four segmental stranded conductor	
600V cable	8D	13D	6D
3,300V cable and higher	10D	12D	8D
Triplex type cable	-	-	8D
Flat tape armoured cable	10D	12D	8D
Wire armoured cable	10D	12D	8D

Permissible maximum pulling tension

Pulling tool	Material of conductor	Permissible maximum pulling tension (kg)
Pulling eye	Copper	$7 \times (\text{Number of core}) \times (\text{Cross-sectional area of conductor})$
	Aluminium	$4 \times (\text{Number of core}) \times (\text{Cross-sectional area of conductor})$
Pulling tool	Material of conductor	Permissible maximum pulling tension (kg)
Basket grip	PVC PE	$1.0 \times (\text{Cross-section area of sheath in mm}^2)$
	Poly-chloroprene	$0.5 \times (\text{Cross-section area of sheath in mm}^2)$

The length of basket grip over sheath shall be not less than 500mm.

2. Removal of sheath or tape

Special care must be taken not to harm the insulation when removing the sheath or tapes with a knife otherwise it may result in a dielectric breakdown.

3. Side wall pressure to cable

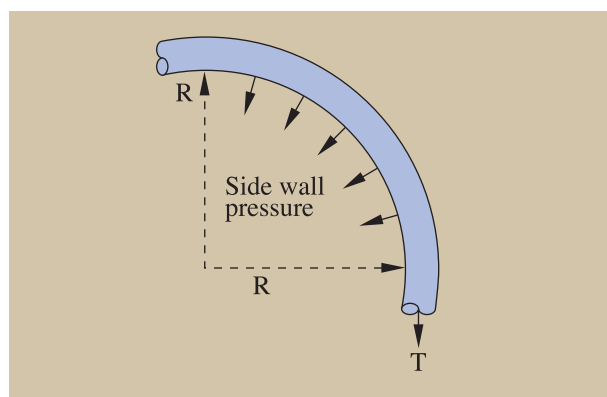
Permissible maximum side wall pressure to the cable at bending point during installation is 500kg/m.

Note:

$$\text{Side wall pressure to cable} = \frac{\text{Pulling tension (kg)}}{\text{Bending radius (m)}} = \frac{T}{R}$$

T: Pulling tension (kg)

R: Bending radius (m)



4. Cleaning the surface of insulation

The surface of insulation should be cleaned to avoid a flash over at the cable termination or joint.

5. Applying of self adhesive tape

When applying a self adhesive tape after jointing or terminating of XLPE cable, stretch it properly about 1.2 times as long as the original one. If it is over-stretched crack may occur on the tape in the long run and if not stretched properly, tape will not be adhered between each layer.

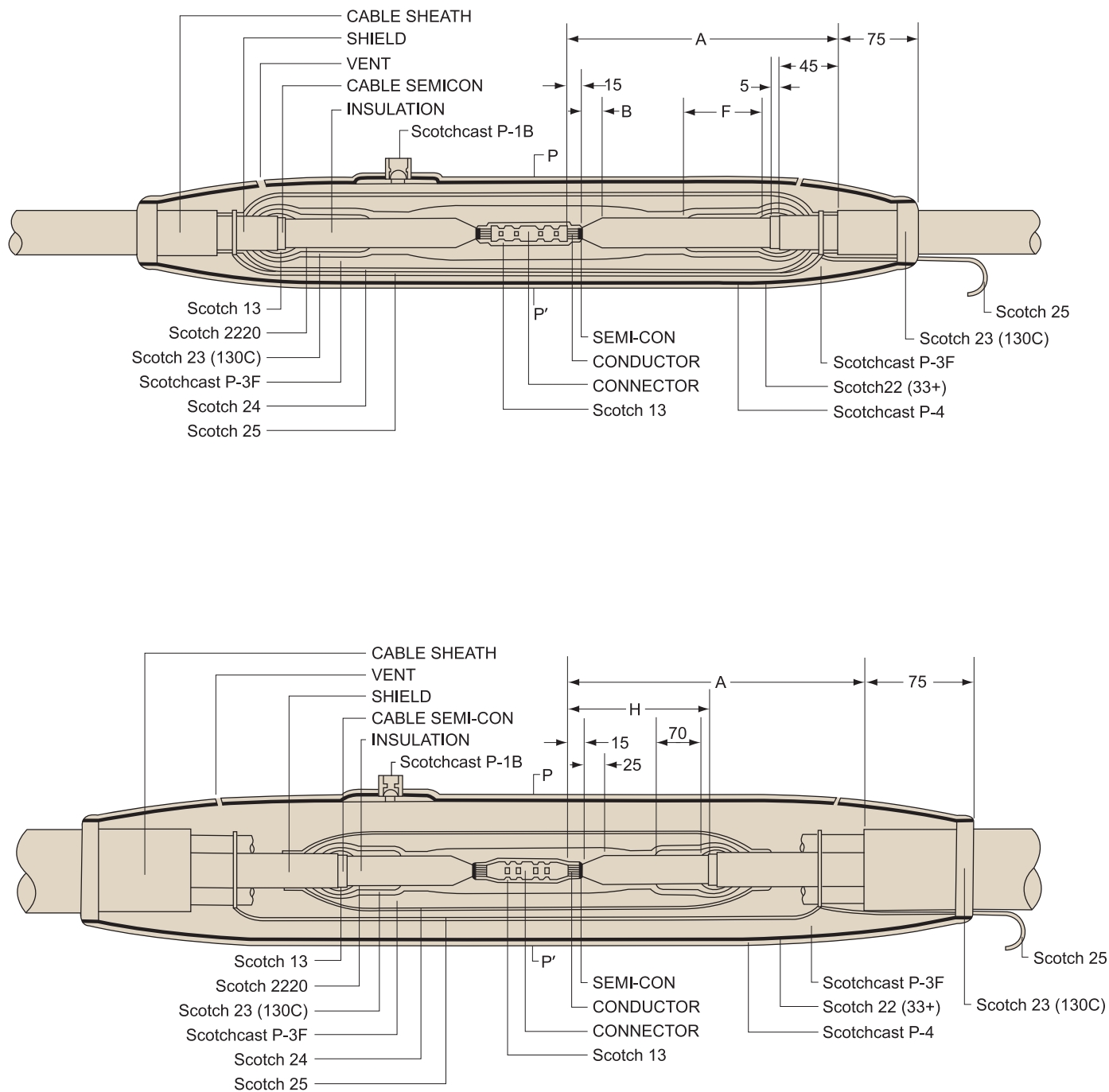
6. Water proof treatment for out-door termination

For out-door termination water proof treatment is necessary to avoid the water penetrating into the cable end and special care must be taken to apply tapes and terminals. It is desirable to use a compression or solder type terminal.

SPLICING

(FOR 3.3-25KV XLPE CABLES)

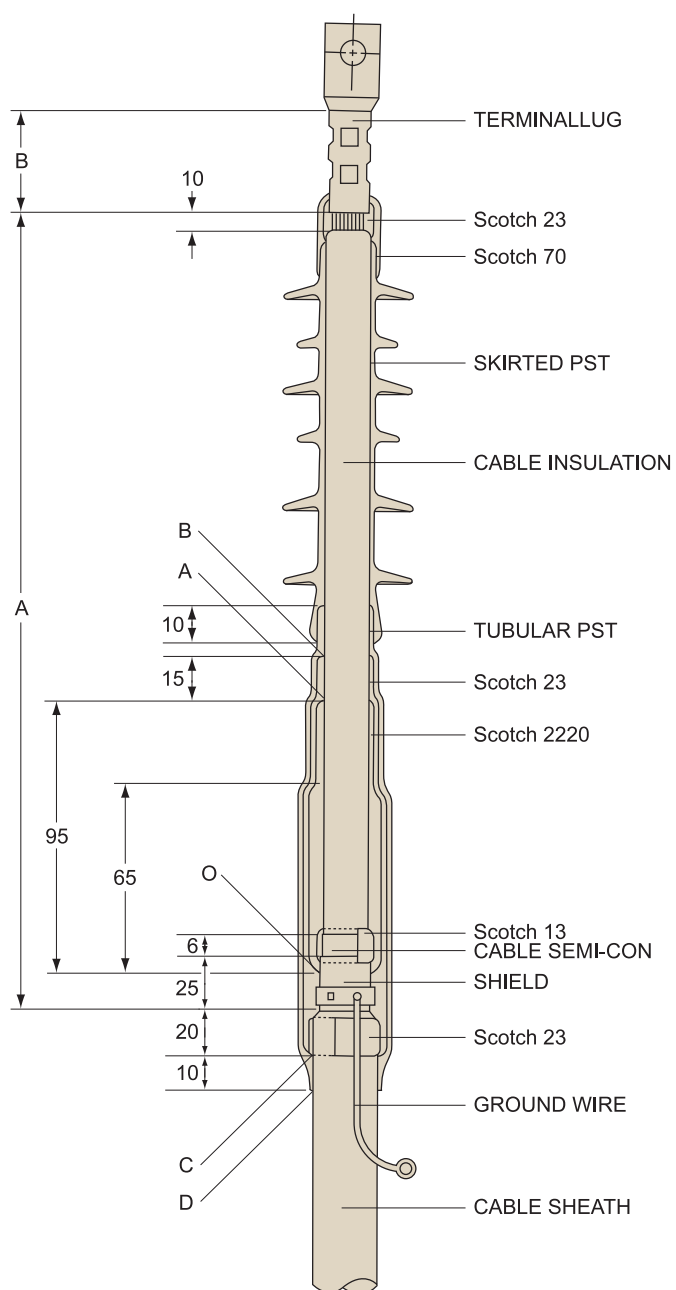
Single Core



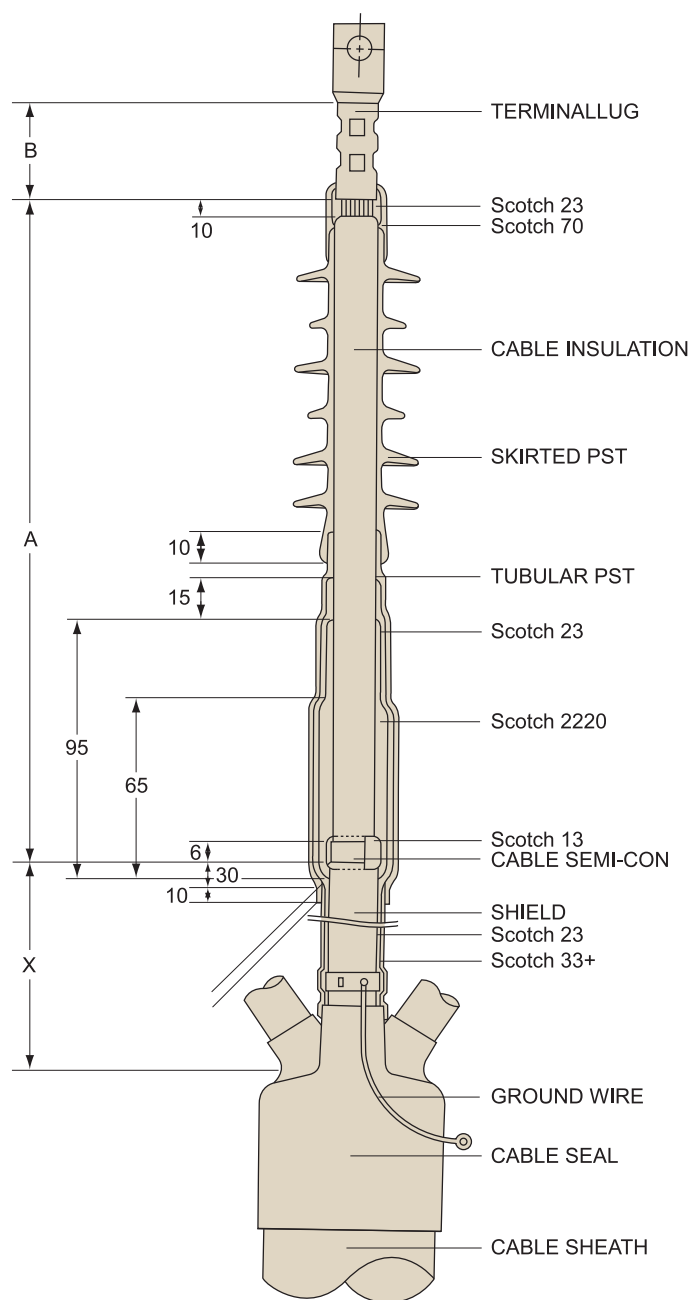
TERMINATION

(FOR 25KV XLPE CABLES)

Single Core

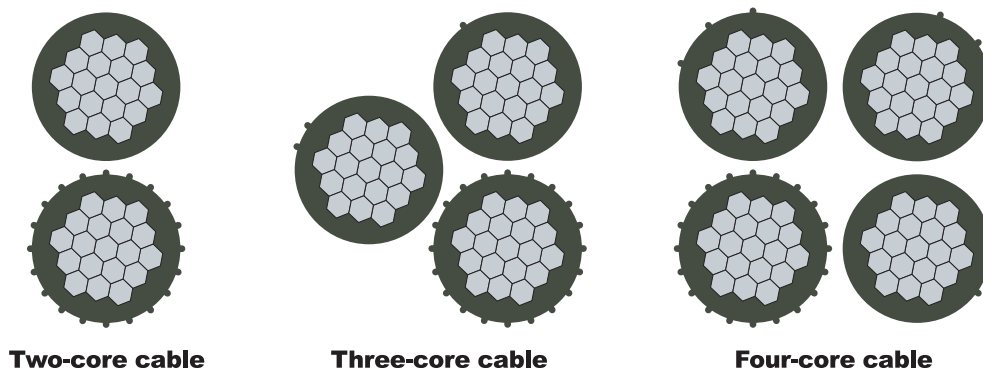


Three Cores

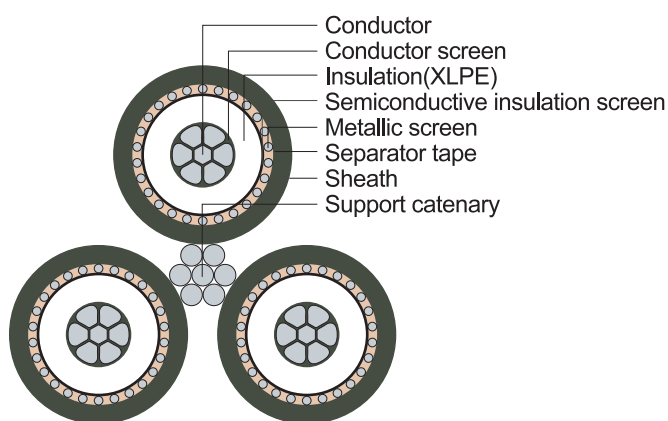


ALUMINIUM CONDUCTOR CABLE CONSTRUCTION

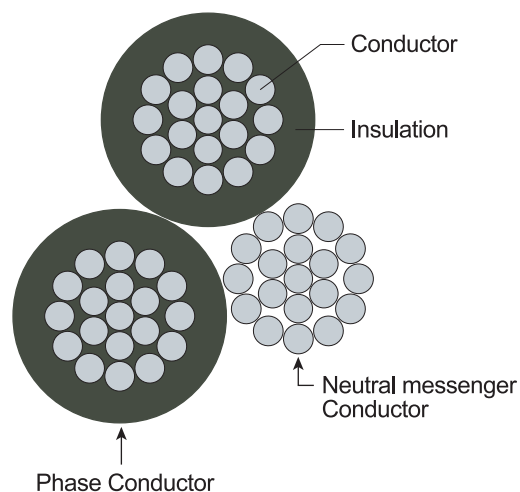
Aerial Bundle / Low Voltage Cable



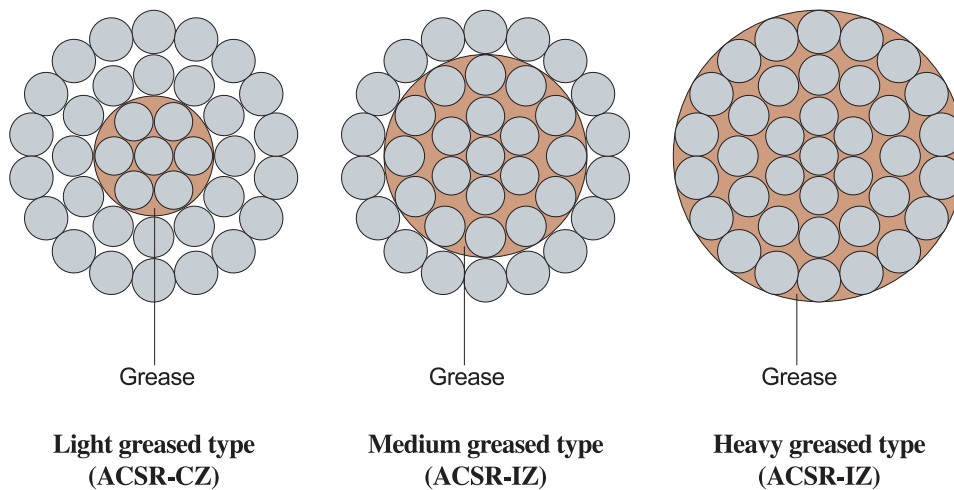
Aerial Bundle / High Voltage Cable



Service Drop Wire



Greased ACSR



AERIAL BUNDLE CABLES

(Table 70) Aluminium Conductor XLPE Insulated, 0.6/1KV AL-ABC

(Daewon Spec.)

Physical characteristics								Electrical characteristics				
No. of core	Conductor			Average insulation thickness mm	Diameter over insulation mm	Nominal overall diameter mm	Approx. mass kg/100m	Max. conductor resistance (20℃) Ω/Km	Insulation resistance constant (Ki) MΩ-km		Spark test on core kv	High voltage test for 4h kv
	Nominal conductor area mm ²	Number & nominal diameter of wire no./mm	Maximum outside diameter mm						20℃	90℃		
2	25	C.C.	6.1	1.3	8.6	17.2	20	1.2	3,000	3	15	2
	35	C.C.	7.2	1.3	9.8	19.6	26	0.868	3,000	3	15	2
	50	C.C.	8.4	1.5	11.3	22.6	35	0.641	3,000	3	20	2
	95	C.C.	11.9	1.7	15.5	31.0	65	0.320	3,000	3	20	2
3	25	C.C.	6.1	1.3	8.6	18.5	30	1.2	3,000	3	15	2
	35	C.C.	7.2	1.3	9.8	21.1	39	0.868	3,000	3	15	2
	50	C.C.	8.4	1.5	11.3	24.4	53	0.641	3,000	3	20	2
	95	C.C.	11.9	1.7	15.5	31.0	65	0.320	3,000	3	20	2
4	25	C.C.	6.1	1.3	8.6	20.7	40	1.2	3,000	3	15	2
	35	C.C.	7.2	1.3	9.8	23.6	52	0.868	3,000	3	15	2
	50	C.C.	8.4	1.5	11.3	27.3	70	0.641	3,000	3	20	2
	70	C.C.	10.1	1.5	13.0	31.3	98	0.443	3,000	3	20	2
	95	C.C.	11.9	1.7	15.5	37.4	130	0.320	3,000	3	20	2
	120	C.C.	13.5	1.7	17.0	41.0	162	0.253	3,000	3	20	2
	150	C.C.	14.9	1.7	18.5	44.6	197	0.206	3,000	3	20	2

C.C.: Compact Round Stranded Conductor

(Table 71) Copper Conductor XLPE Insulated, 0.6/1KV ABC

Physical characteristics								Electrical characteristics				
No. of core	Conductor			Average insulation thickness mm	Diameter over insulation mm	Nominal overall diameter mm	Approx. mass kg/100m	Max. conductor resistance (20℃) Ω/Km	Insulation resistance constant (Ki) MΩ-km		Spark test on core kv	High voltage test for 4h kv
	Nominal conductor area mm ²	Number & nominal diameter of wire no./mm	Maximum outside diameter mm						20℃	90℃		
2	10	7/1.35	4.2	1.3	6.8	13.6	230	1.83	3,000	3	15	2
	16	7/1.7	5.2	1.3	7.9	15.7	345	1.15	3,000	3	15	2
4	25	19/1.35	6.9	1.3	9.5	22.9	1,130	0.727	3,000	3	20	2
	35	19/1.53	7.9	1.3	10.5	25.1	1,430	0.524	3,000	3	20	2

(Table 72) Metallic Screened HV-ABC(AS3559/88 Part 1)

Nominal area of phase cable conductor mm ²	Minimum average thickness of insulation		Minimum average thickness of extruded insulation screen		Minimum average thickness of sheath		Support catenary size, number and nom. dia. of wires	
	6.35/11(12)kv cable mm	12.7/22(24)kv cable mm	6.35/11(12)kv cable mm	12.7/22(24)kv cable mm	6.35/11(12)kv cable mm	12.7/22(24)kv cable mm	6.35/11(12)kv cable No/mm	12.7/22(24)kv cable No/mm
35	3.4	5.5	0.8	0.8	1.8	1.8	7/2.00	7/2.00
35	3.4	5.5	0.8	0.8	1.8	1.8	19/2.00	19/2.00
50	3.4	5.5	0.8	0.8	1.8	1.8	19/2.00	19/2.00
70	3.4	5.5	0.8	0.8	1.8	1.8	19/2.00	19/2.00
95	3.4	5.5	0.8	0.8	1.8	1.9	19/2.00	19/2.00
120	3.4	5.5	0.8	0.8	1.8	1.9	19/2.00	19/2.00
150	3.4	5.5	0.8	1.0	1.8	2.0	19/2.00	19/2.00
185	3.4	5.5	0.8	1.0	1.9	2.0	19/2.00	19/2.00

SERVICE DROP WIRE

(Table 73) Duplex

Code* Word	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft. (lbs.)		Allowable Ampacities+	
	Size (AWG)	Stranding	Insul. Thick. (mils)	Size++ (AWG)	Stranding	Rated Strength (lbs.)	VIP	POLY	VIP	POLY
6201 ALLOY NEUTRAL-MESSENGER										
Chihuahua	6	1	45	6	7	1,110	67	65	85	70
Vizsla	6	7	45	6	7	1,110	70	68	85	70
Harrier	4	1	45	4	7	1,760	101	99	115	90
Whippet	4	7	45	4	7	1,760	105	103	115	90
Schnauzer	2	7	45	2	7	2,800	161	158	150	120
Heeler	1/10	19	60	1/10	7	4,460	255	250	205	160
AAC NEUTRAL-MESSENGER										
Pekingese	6	1	45	6	7	563	63	61	85	70
Collie	6	7	45	6	7	563	66	64	85	70
Dachshund	4	1	45	4	7	881	94	92	115	90
Spaniel	4	7	45	4	7	881	99	96	115	90
Doberman	2	7	45	2	7	1,350	151	148	150	120
Malemute	1/10	19	60	1/10	7	1,990	239	234	205	160
ACSR NEUTRAL-MESSENGER										
Setter	6	1	45	6	6/1	1,190	74	72	85	70
Shepherd	6	7	45	6	6/1	1,190	77	75	85	70
Eskimo	4	1	45	4	6/1	1,860	113	111	115	90
Terrier	4	7	45	4	6/1	1,860	117	115	115	90
Chow	2	7	45	2	6/1	2,850	180	177	150	120
Bull	1/10	19	60	1/10	6/1	4,380	286	280	205	160

* Code words for VIP Insulated products are formed by adding "/VIP" to the conventional code words above (e.g.-Chihuahua/VIP).

+ Conductor temperature of 90°C for VIP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

++ Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B • 399 for 6201.

(Table 74) Quadruplex

Code* Word	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft. (lbs.)		Allowable Ampacities+	
	Size (AWG or kcmil)	Stranding	Insul. Thick. (mils)	Size++ (AWG)	Stranding	Rated Strength (lbs.)	VIP	POLY	VIP	POLY
6201 ALLOY NEUTRAL-MESSENGER										
Bay	6	1	45	6	7	1,110	143	137	75	60
French-Coach	6	7	45	6	7	1,110	152	146	75	60
German-Coach	4	1	45	4	7	1,760	211	205	100	80
Arabian	4	7	45	4	7	1,760	225	217	100	80
Belgian	2	7	45	2	7	2,800	338	328	135	105
Shelland	1/0	19	60	1/0	7	4,460	536	520	180	140
Thoroughbred	2/0	19	60	2/0	7	5,390	658	641	205	160
Troller	3/0	19	60	3/0	7	6,790	811	791	235	185
Walking	4/0	19	60	4/0	7	8,560	1,002	979	275	210
AAC NEUTRAL-MESSENGER										
Clydesdale	4	1	45	4	7	881	205	198	100	80
Pinto	4	7	45	4	7	881	219	211	100	80
Mustang	2	7	45	2	7	1,350	328	318	135	105
Criollo	1/0	19	60	1/0	7	1,990	520	504	180	140
Percheron	2/0	19	60	2/0	7	2,510	638	620	205	160
Hanoverian	3/0	19	60	3/0	19	3,310	786	766	235	185
Oldenburg	4/0	19	60	4/0	19	4,020	970	947	275	210
Lippizaner	336.4	19	80	336.4	19	6,146	1,557	1,519	370	280
ACSR NEUTRAL-MESSENGER										
Morochuca	6	1	45	6	6/1	1,190	150	145	75	60
Chola	6	7	45	6	6/1	1,190	160	153	75	60
Morgan	4	1	45	4	6/1	1,860	223	217	100	80
Hackney	4	7	45	4	6/1	1,860	237	229	100	80
Palomino	2	7	45	2	6/1	2,850	357	347	135	105
Costena	1/0	19	60	1/0	6/1	4,380	566	550	180	140
Grullo	2/0	19	60	2/0	6/1	5,310	696	679	205	160
Suffolk	3/0	19	60	3/0	6/1	6,620	859	839	235	185
Appaloosa	4/0	19	60	4/0	6/1	8,350	1,062	1,040	275	210
Bronco	336.4	19	80	336.4	18/1	8,680	1,606	1,569	370	280
Gelding	336.4	19	80	4/0	6/1	8,350	1,532	1,495	370	280

* Code words for VIP Insulated products are formed by adding "/VIP" to the conventional code words above (e.g.-Bay/VIP).

+ Conductor temperature of 90°C for VIP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

++ Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B • 399 for 6201.

SERVICE DROP WIRE

(Table 75) Triplex

Code* Word	Phase Conductor			Bare Neutral Messenger			Weight Per 1000 ft. (lbs.)		Allowable Ampacities+	
	Size (AWG or kcmil)	Stranding	Insul. Thick. (mils)	Size++ (AWG)	Stranding	Rated Strength (lbs.)	VIP	POLY	VIP	POLY
AAC NEUTRAL-MESSENGER										
Haiotis	6	1	45	6	7	563	101	97	85	70
Patella	6	7	45	6	7	563	107	103	85	70
Fusus	4	1	45	4	7	881	150	145	115	90
Oyster	4	7	45	4	7	881	159	154	115	90
Clam	2	7	45	2	7	1,350	240	233	150	120
Murex	1/0	7	60	1/0	7	1,990	386	374	205	160
Purpura	1/0	19	60	1/0	7	1,990	380	369	205	160
Nassa	2/0	7	60	2/0	7	2,510	475	462	235	185
Trophon	2/0	19	60	2/0	7	2,510	467	457	235	185
Melita	3/0	19	60	3/0	19	3,310	576	563	275	215
Portunus	4/0	19	60	4/0	19	4,020	713	698	315	245
Nannynose	336.4	19	80	336.4	19	6,146	1,143	1,118	420	325
ACSR NEUTRAL-MESSENGER										
Paludina	6	1	45	6	6/1	1,190	112	109	85	70
Voluta	6	7	45	6	6/1	1,190	119	114	85	70
Whelk	4	1	45	4	6/1	1,860	168	164	115	90
Periwinkle	4	7	45	4	6/1	1,860	177	172	115	90
Conch	2	7	45	2	6/1	2,850	269	262	150	120
Neritina	1/0	7	60	1/0	6/1	4,380	432	421	205	160
Cenia	1/0	19	60	1/0	6/1	4,380	426	415	205	160
Runcina	2/0	7	60	2/0	6/1	5,310	533	520	235	185
Triton	2/0	19	60	2/0	6/1	5,310	525	513	235	185
Mursia	3/0	19	60	3/0	6/1	6,620	649	636	275	215
Zuzara	4/0	19	60	4/0	6/1	8,350	805	790	315	245
Limpel	336.4	19	80	336.4	18/1	8,680	1,193	1,168	420	325
ACSR REDUCED NEUTRAL-MESSENGER										
Scallop	4	1	45	6	6/1	1,190	147	142	115	90
Strombus	4	7	45	6	6/1	1,190	156	151	115	90
Cockle	2	7	45	4	6/1	1,860	235	228	150	120
Janthina	1/0	7	60	2	6/1	2,853	378	367	205	160
Ranella	1/0	19	60	2	6/1	2,850	372	361	205	160
Cavolinia	2/0	7	60	1	6/1	3,550	465	452	235	185
Clio	2/0	19	60	1	6/1	3,550	457	445	235	185
Aega	3/0	19	60	1/0	6/1	4,380	564	551	275	215
Cerapus	4/0	19	60	2/0	6/1	5,310	697	682	315	245
Cowry	336.4	19	80	4/0	6/1	8,350	1,119	1,093	420	325
6201 ALLOY NEUTRAL-MESSENGER										
Minex	6	1	45	6	7	1,110	105	101	85	70
Hippa	6	7	45	6	7	1,110	111	107	85	70
Prawn	4	1	45	4	7	1,760	156	152	115	90
Bamacles	4	7	45	4	7	1,760	165	160	115	90
Shrimp	2	7	45	2	7	2,800	250	243	150	120
Gammarus	1/0	7	60	1/0	7	4,460	402	390	205	160
Leda	1/0	19	60	1/0	7	4,460	396	385	205	160
Dungenese	2/0	7	60	2/0	7	5,390	495	482	235	185
Cyclops	2/0	19	60	2/0	7	5,390	487	475	235	185
Hustra	3/0	19	60	3/0	7	6,790	601	588	275	215
Lepas	4/0	19	60	4/0	7	8,560	744	730	315	245
6201 ALLOY REDUCED NEUTRAL-MESSENGER										
Artemia	4	1	45	6	7	1,110	139	135	115	90
Crab	4	7	45	6	7	1,110	148	143	115	90
Solaster	2	7	45	4	7	1,760	223	216	150	120
Sandcrab	1/0	7	60	2	7	2,800	359	348	205	160
Echinus	1/0	19	60	2	7	2,800	353	342	205	160
Craylish	2/0	7	60	1	7	3,530	446	428	235	185
Sipho	2/0	19	60	1	7	3,530	435	423	235	185
Fulgar	3/0	19	60	1/0	7	4,460	534	521	275	215
Arca	4/0	19	60	2/0	7	5,390	659	644	315	245

* Code words for VIP Insulated products are formed by adding "/VIP" to the conventional code words above (e.g. -Haiotis/VIP).

+ Conductor temperature of 90°C for VIP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

++ Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B · 399 for 6201.

* Code words for VIP Insulated products are formed by adding "/VIP" to the conventional code words above (e.g. -Minex/VIP).

+ Conductor temperature of 90°C for VIP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

++ Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B · 399 for 6201.

Concentric-lay stranded Aluminium Conductor, Steel Reinforced ACSR(ASTM B 232/74)

(Table 76) ACSR

Phase Conductor		Calculated Cross-section				Copper Equivalent Size	Stranding			
Code Word	Conductor Size	Aluminium		ACSR			Aluminium		Steel	
	MCM or AWG	in²	mm²	in²	mm²		MCM or AWG	No/in	No/mm	No/in
Thrasher	2,312	1.815	1,172	1.914	1,235	1,451	76/0.1744	76/4.430	19/0.0814	19/2.068
Kiwi	2,167	1.776	1,098	1.850	1,145	1,361	72/0.1735	72/4.407	7/0.1157	7/2.939
Bluebird	2,156	1.693	1,092	1.831	1,181	1,352	84/0.1602	84/4.069	19/0.0961	19/2.441
Chukar	1,780	1.512	901.9	1.626	975.8	1,119	84/0.1456	84/3.698	19/0.0874	19/2.220
Falcon	1,590	1.249	805.7	1.403	907.8	1,000	54/0.1716	54/4.539	19/0.1030	19/2.616
Lapwing	1,590	1.249	805.7	1.335	861.7	1,000	45/0.1880	45/4.775	7/0.1253	7/3.183
Parrot	1,510.5	1.186	765.4	1.337	862.1	950	54/0.1672	54/4.247	19/0.1003	19/2.548
Nuthatch	1,510.5	1.186	765.4	1.268	817.9	950	45/0.1832	45/4.653	7/0.1221	7/3.101
Plover	1,431	1.124	725.1	1.266	817.1	900	54/0.1628	54/4.135	19/0.0977	19/2.482
Bobolink	1,431	1.124	725.1	1.202	775.1	900	45/0.1783	45/4.529	7/0.1189	7/3.020
Martin	1,351.5	1.062	684.8	1.196	771.4	850	54/0.1582	54/4.018	19/0.0949	19/2.410
Dipper	1,351.5	1.062	684.8	1.135	732.2	850	45/0.1733	45/4.402	7/0.1155	7/2.934
Pheasant	1,272	0.9990	644.5	1.126	726.4	800	54/0.1535	54/3.899	19/0.0921	19/2.339
Bittern	1,272	0.9990	644.5	1.068	689.0	800	45/0.1681	45/4.270	7/0.1121	7/2.847
Skylark	1,272	0.9990	644.5	1.027	662.7	800	36/0.1880	36/4.775	1/0.1880	1/4.775
Grackle	1,192.5	0.9366	604.2	1.055	681.1	750	54/0.1486	54/3.774	19/0.0892	19/2.266
Bunting	1,192.5	0.9366	604.2	1.004	646.2	750	45/0.1628	45/4.135	7/0.1085	7/2.756
Finch	1,113	0.8741	564.0	0.9849	636.9	700	54/0.1436	54/3.647	19/0.0862	19/2.189
Bluejay	1,113	0.8741	564.0	0.9346	603.3	700	45/0.1573	45/3.995	7/0.1049	7/2.664
Curlew	1,033.5	0.8117	523.7	0.9169	691.3	650	54/0.1383	54/3.513	7/0.1383	7/3.513
Ortolan	1,033.5	0.8117	523.7	0.8678	559.6	650	45/0.1515	45/3.848	7/0.1010	7/2.565
Tanger	1,033.5	0.8117	523.7	0.8347	537.9	650	36/0.1694	36/4.303	1/0.1694	1/4.303
Cardinal	954	0.7493	483.4	0.8464	546.1	600	54/0.1329	54/3.376	7/0.1329	7/3.376
Rail	954	0.7493	484.4	0.8011	516.7	600	45/0.1456	45/3.698	7/0.0971	7/2.466
Catbird	954	0.7493	483.4	0.7701	496.9	600	36/0.1628	36/4.135	1/0.1628	1/4.135
Canary	900	0.7069	456.0	0.7785	515.1	566	54/0.1291	54/3.279	7/0.1291	7/3.279
Ruddy	900	0.7069	456.0	0.7555	487.4	566	45/0.1414	45/3.592	7/0.0943	7/2.395
Mallard	795	0.6244	402.8	0.7668	494.8	500	30/0.1628	30/4.135	19/0.0977	19/2.482
Condor	795	0.6244	402.8	0.7053	454.8	500	54/0.1213	54/3.081	7/0.1213	7/3.081
Tern	795	0.6244	402.8	0.6676	430.6	500	45/0.1329	45/3.376	7/0.0886	7/2.250
Coot	795	0.6244	402.8	0.6417	414.0	500	36/0.1486	36/3.774	1/0.1486	1/3.774
Drake	795	0.6244	402.8	0.7261	468.6	500	26/0.1749	26/4.442	7/0.1360	7/3.454
Cuckoo	795	0.6244	402.8	0.7053	455.2	500	24/0.1820	24/4.623	7/0.1213	7/3.081
Redwing	715.5	0.5620	362.5	0.6901	445.0	450	30/0.1544	30/3.922	19/0.0926	19/2.352
Starling	715.5	0.5620	362.5	0.6535	421.7	450	26/0.1659	26/4.214	7/0.1290	7/3.277
Stilt	715.5	0.5620	362.5	0.6535	409.9	450	24/0.1727	24/4.387	7/0.1151	7/2.924
Gannet	666.6	0.5235	337.8	0.6348	392.7	419	26/0.1601	26/4.067	7/0.1245	7/3.162
Flamingo	666.6	0.5235	337.8	0.5914	381.7	419	24/0.1667	24/4.234	7/0.1111	7/2.822
Swift	636	0.4995	322.3	0.5134	331.2	400	36/0.1329	36/3.376	1/0.1329	1/3.376
Egret	636	0.4995	322.3	0.6134	395.8	400	30/0.1456	30/3.698	19/0.0874	19/2.220
Scater	636	0.4995	322.3	0.6161	397.4	400	30/0.1456	30/3.698	7/0.1456	7/3.698
Grasbeak	636	0.4995	322.3	0.5809	374.9	400	26/0.1564	26/3.973	7/0.1216	7/3.089
Rook	636	0.4995	322.3	0.5643	364.1	400	24/0.1628	24/4.135	7/0.1085	7/2.756
Kingbird	636	0.4995	322.3	0.5272	340.3	400	18/0.1880	18/4.775	1/0.1880	1/4.775
Teal	605	0.4752	306.6	0.6134	376.5	380.5	30/0.1420	30/3.607	19/0.0852	19/2.164

Concentric-lay stranded Aluminium Conductor, Steel Reinforced ACSR(ASTM B 232/74)

(Table 76) ACSR

Overall Diameter				Weight				Ultimate Strenght		Calculated D.C resistance at 20 °C		ACSR
ACSR		Steel		ACSR		Aluminium						Code Word
in	mm	in	mm	lbs/1000ft	kg/km	lbs/1000ft	kg/km	lbs	kgf	ohm/1000ft	ohm/km	
1.802	45.78	0.407	10.347	2,527	3,760	2,191	3,261	56,650	25,700	0.00755	0.02477	Thrasher
1.735	44.07	0.347	8.817	2,303	3,429	2,054	3,058	63,380	22,600	0.008123	0.02642	Kiwi
1.762	44.76	0.481	12.21	2,511	3,737	2,044	3,041	50,950	27,300	0.008082	0.02656	Bluebird
1.502	40.68	0.437	11.10	2,074	3,088	1,687	2,512	53,630	23,200	0.009839	0.03216	Chukar
1.545	39.23	0.515	13.08	2,044	3,043	1,507	2,244	54,630	24,700	0.01101	0.03601	Falcon
1.502	38.19	0.376	9.549	1,792	2,667	1,500	2,232	42,200	19,200	0.01101	0.03583	Lapwing
1.506	38.22	0.502	12.74	1,942	2,888	1,432	2,130	50,320	22,500	0.01112	0.03794	Parrot
1.466	37.22	0.366	9.303	1,702	2,533	1,425	2,120	40,100	18,200	0.01154	0.03774	Nuthatch
1.465	37.22	0.489	12.41	1,840	2,739	1,357	2,019	49,100	22,300	0.01224	0.04002	Plover
1.427	36.23	0.357	9.060	1,613	2,401	1,350	2,009	38,300	17,400	0.01224	0.03984	Bobolink
1.424	36.16	0.475	12.05	1,737	2,584	1,281	1,906	46,300	21,000	0.01295	0.04238	Martin
1.365	35.21	0.345	8.802	1,523	2,268	1,275	1,898	36,200	16,600	0.02189	0.04216	Dipper
1.382	35.09	0.461	11.70	1,635	2,434	1,206	1,795	43,600	19,800	0.01377	0.04480	Bittern
1.345	34.16	0.336	8.541	1,434	2,133	1,200	1,785	34,100	15,500	0.01377	0.4480	Bittern
1.316	33.43	0.1880	4.775	1,288	1,916	1,194	1,777	26,400	12,000	0.01377	0.04457	Skylark
1.333	33.97	0.446	11.33	1,533	2,282	1,130	1,682	41,900	19,000	0.01468	0.04803	Grackle
1.302	33.07	0.326	8.268	1,344	2,000	1,125	1,674	32,000	14,500	0.01461	0.04779	Bunting
1.293	32.83	0.431	10.95	1,431	2,131	1,055	1,571	39,100	17,800	0.01605	0.05144	Finch
1.259	31.96	0.315	7.992	1,255	1,868	1,055	1,563	29,800	13,600	0.01573	0.05118	Bluejay
1.246	31.62	0.415	10.54	1,331	1,980	975	1,450	36,600	16,600	0.01686	0.05518	Curlew
1.213	30.78	0.303	7.695	1,165	1,733	975	1,450	27,700	12,600	0.01686	0.05517	Ortalan
1.186	30.12	0.1694	4.303	1,046	1,556	970	1,143	21,400	9,710	0.01686	0.05488	Tanager
1.196	30.39	0.399	10.13	1,229	1,828	900	1,339	33,800	15,400	0.01827	0.05973	Cardinal
1.165	29.59	0.291	7.398	1,075	1,600	900	1,339	25,900	11,700	0.01827	0.05975	Rail
1.140	28.95	0.1628	4.135	966	1,438	896	1,333	19,800	8,980	0.01827	0.05944	Catbird
1.162	29.51	0.387	9.837	1,159	1,725	849	1,264	31,900	14,500	0.01936	0.06332	Canary
1.131	28.74	0.283	7.185	1,015	1,509	849	1,263	24,400	11,100	0.01936	0.06332	Ruddy
1.140	28.95	0.489	12.41	1,235	1,839	752	1,119	33,400	17,400	0.02197	0.07186	Mallard
1.093	27.73	0.364	9.243	1,024	1,522	750	1,115	28,200	12,800	0.02192	0.07173	Condor
1.063	27.01	0.266	6.750	896	1,333	750	1,116	22,100	10,000	0.02192	0.07168	Tern
1.040	26.42	0.1486	3.774	805	1,197	746	1,110	16,800	7,610	0.02192	0.07134	Coot
1.108	28.13	0.408	10.36	1,094	1,628	750	1,116	31,500	14,300	0.02192	0.07167	Drake
1.092	27.73	0.364	9.243	1,023	1,524	750	1,116	27,900	12,700	0.02192	0.07166	Cuckoo
1.082	27.45	0.463	11.76	1,111	1,653	676	1,007	34,600	15,700	0.02441	0.07987	Redwing
1.051	26.69	0.387	9.831	985	1,466	675	1,005	28,400	12,900	0.02441	0.07963	Starling
1.036	26.32	0.345	8.772	922	1,372	675	1,005	25,500	11,600	0.02436	0.07961	Stilt
1.014	25.75	0.373	9.486	917	1,365	629	935.7	26,400	12,000	0.02607	0.08551	Gannet
1.000	25.40	0.333	8.466	858	1,278	629	936.3	23,700	10,800	0.02614	0.08546	Flamingo
0.930	23.63	0.1329	3.376	644	958.2	597	888.6	13,800	6,240	0.02740	0.08916	Swift
1.019	25.89	0.437	11.10	988	1,470	601	894.8	31,500	14,300	0.02747	0.08984	Egret
1.019	25.89	0.437	11.09	993	1,483	601	894.8	30,890	13,800	0.02747	0.08984	Scoter
0.990	25.15	0.365	9.267	875	1,303	600	893.0	25,200	11,500	0.02740	0.08957	Grosbeak
0.977	24.80	0.326	8.268	819	1,219	600	893.0	22,600	10,300	0.02740	0.08960	Rook
0.940	23.88	0.1880	4.775	690	1,028	597	888.6	15,700	7,120	0.02727	0.08914	Kingbird
0.994	25.25	0.426	10.82	940	1,398	572	851.4	30,000	13,600	0.02888	0.09443	Teal

Concentric-lay stranded Aluminium Conductor, Steel Reinforced ACSR(ASTM B 232/74)

ACSR		Calculated Cross-section				Copper Equivalent Size	Stranding			
Code Word	Conductor Size	Aluminium		ACSR			Aluminium		Steel	
	MCM or AWG	in²	mm²	in²	mm²		MCM or AWG	No/in	No/mm	No/in
Wood Duck	605	0.4752	306.6	0.5861	378.1	380.5	30/0.1420	30/3.607	7/0.1420	7/3.607
Squab	605	0.4752	306.6	0.5526	356.4	380.5	26/0.1525	26/3.874	7/0.1186	7/3.012
Peacock	605	0.4752	306.6	0.5368	346.5	380.5	24/0.1588	24/4.034	7/0.1059	7/2.690
Eagle	556.5	0.4371	282.0	0.5391	347.7	350	30/0.1362	30/3.459	7/0.1362	7/3.459
Dove	556.5	0.4371	282.0	0.5083	328.1	350	26/0.1463	26/3.716	7/0.1138	7/2.891
Parakeet	556.5	0.4371	282.0	0.4938	318.5	350	24/0.1523	24/3.863	7/0.1015	7/2.573
Osprey	556.5	0.4371	282.0	0.4614	297.6	350	18/0.1758	18/4.465	1/0.1758	1/4.465
Hen	477	0.3746	241.7	0.1620	198.1	300	30/0.1261	30/3.203	7/0.1261	7/3.203
Hawk	477	0.3746	241.7	0.4356	280.8	300	26/0.1354	26/3.439	7/0.1053	7/2.675
Flicker	477	0.3746	241.7	0.4231	273.1	300	24/0.1410	24/3.581	7/0.0940	7/2.388
Pelican	477	0.3746	241.7	0.3954	255.1	300	18/0.1628	18/4.135	1/0.1628	1/4.135
Lark	397.5	0.3122	201.4	0.3850	248.5	250	30/0.1151	30/2.924	7/0.1151	7/2.924
Ibis	397.5	0.3122	201.4	0.3630	234.0	250	26/0.1236	26/3.139	7/0.0981	7/2.441
Brant	397.5	0.3122	201.4	0.3525	227.5	250	24/0.1287	24/3.269	7/0.0858	7/2.179
Chickadee	397.5	0.3122	201.4	0.3295	212.6	250	18/0.1486	18/3.774	1/0.1486	1/3.774
Oriole	336.4	0.2642	170.5	0.3259	210.3	4/0	30/0.1059	30/2.690	7/0.1059	7/2.630
Linnet	336.4	0.2642	170.5	0.3072	198.0	4/0	26/0.1137	26/2.888	7/0.0884	7/2.245
Merlin	336.4	0.2642	170.5	0.2789	179.9	4/0	18/0.1367	18/3.472	1/0.1367	1/3.472
Ostrich	300	0.2356	152.0	0.2740	176.7	188.7	26/0.1074	26/2.728	7/0.0835	7/2.121
Partridge	266.8	0.2096	135.2	0.2437	157.2	3/0	26/0.1013	26/2.573	7/0.0788	7/2.002
Waxwing	266.8	0.2096	135.2	0.2212	142.6	3/0	18/0.1217	18/3.091	1/0.1217	1/3.091
Penguin	(4/0)	0.1662	107.2	0.1939	125.1	2/0	6/0.1878	6/4.770	1/0.1878	1/4.770
Pigeon	(3/0)	0.1318	85.03	0.1538	99.19	1/0	6/0.1672	6/4.247	1/0.1672	1/4.247
Quail	(2/0)	0.1045	67.44	0.1219	78.61	1	6/0.1489	6/3.782	1/0.1489	1/3.782
Raven	(1/0)	0.0829	53.51	0.0967	62.48	2	6/0.1327	6/3.371	1/0.1327	1/3.371
Robin	(1)	0.0657	42.41	0.0767	49.48	3	6/0.1181	6/3.000	1/0.1131	1/3.000
Sparate	(2)	0.0521	33.63	0.0653	42.20	4	7/0.1974	7/2.474	1/0.1299	1/3.299
Sparrow	(2)	0.0521	33.63	0.0608	38.25	4	6/0.1052	6/2.672	1/0.1052	1/2.672
Swanate	(4)	0.0328	21.15	0.0411	26.51	6	7/0.0772	7/1.961	1/0.1029	1/2.614
Swan	(4)	0.0328	21.15	0.0383	24.67	6	6/0.0834	6/2.118	1/0.0834	1/2.118
Turkey	(6)	0.0206	13.28	0.0240	15.50	8	6/0.0661	6/1.679	1/0.661	1/1.679

High Mechanical Strength

Cochin	211.3	0.1660	107.1	0.2628	169.6	2/0	12/0.1327	12/3.371	7/0.1327	7/3.371
Brahma	203.2	0.1596	103.0	0.3020	194.9	127.8	16/0.1127	16/2.863	19/0.0977	19/2.482
Dorking	190.8	0.1499	96.68	0.2372	153.1	120	12/0.1261	12/3.203	7/0.1261	7/3.203
Dotterel	176.9	0.1249	80.57	0.1977	127.6	111.2	12/0.1151	12/2.924	7/0.1151	7/3.084
Guinea	159	0.1249	80.57	0.1977	127.6	100	12/0.1151	12/2.924	7/0.1151	7/2.924
Leghorn	134.6	0.1057	68.20	0.1674	108.0	84.6	12/0.1059	12/2.690	7/0.1059	7/2.690
Minorca	110.8	0.0870	56.14	0.1378	88.92	69.6	12/0.0961	12/2.441	7/0.0961	7/2.441
Petrel	101.8	0.0800	51.58	0.1266	81.64	64	12/0.0921	12/2.339	7/0.0921	7/2.339
Grouse	80	0.0628	40.54	0.0847	54.67	50.3	8/0.1000	8/2.540	1/0.1670	1/4.242

Concentric-lay stranded Aluminium Conductor, Steel Reinforced ACSR(ASTM B 232/74)

Overall Diameter				Weight				Ultimate Strenght		Calculated D.C resistance at 20℃		ACSR
ACSR		Steel		ACSR		Aluminium						Code Word
in	mm	in	mm	lbs/1000ft	kg/km	lbs/1000ft	kg/km	lbs	kgf	ohm/1000ft	ohm/km	
0.994	25.25	0.426	10.82	948	1,411	572	851.4	29,380	13,200	0.02887	0.09443	Wood Duck
0.966	24.53	0.356	9.036	833	1,239	571	849.1	24,300	11,000	0.02880	0.09422	Squab
0.953	24.21	0.318	8.070	780	1,161	571	849.9	21,600	9,790	0.02830	0.09413	Peacock
0.953	24.21	0.4036	10.38	872	1,297	526	783.0	27,800	12,600	0.03139	0.1027	Eagle
0.927	23.53	0.3414	8.673	766	1,140	525	781.1	22,600	10,300	0.03132	0.1024	Dove
0.914	23.20	0.3045	7.734	717	1,067	525	781.3	19,800	8,980	0.03132	0.1024	Parakeet
0.879	22.33	0.1758	4.465	604	898.8	522	777.0	13,700	6,220	0.03116	0.1019	Osprey
0.883	22.42	0.3783	9.609	747	1,112	451	671.4	23,800	10,800	0.03662	0.1197	Hen
0.858	21.78	0.3162	8.025	657	976.5	450	669.2	19,500	8,850	0.03653	0.1196	Hawk
0.846	21.48	0.2820	7.164	615	914.5	450	669.6	17,200	7,770	0.03653	0.1195	Flicker
0.814	20.68	0.1628	4.135	518	771.0	448	666.5	11,800	5,350	0.00353	0.1189	Pelican
0.806	20.47	0.3453	8.772	623	927.0	376	559.6	20,300	9,220	0.04395	0.1437	Lark
0.783	19.88	0.2883	7.323	547	813.4	375	557.5	16,300	7,370	0.04384	0.1435	Ibis
0.772	19.61	0.2574	6.537	512	762.1	375	558.2	14,600	6,660	0.04384	0.1434	Brant
0.743	18.87	0.1486	3.774	432	642.2	373	555.2	9,940	4,520	0.04363	0.1427	Chickacee
0.741	18.83	0.3177	8.070	527	784.6	318	473.5	17,300	7,870	0.05193	0.1698	Oriole
0.721	18.28	0.2652	6.735	463	688.5	317	472.0	14,100	6,390	0.05181	0.1696	Linnet
0.684	17.36	0.1367	3.472	365	543.5	316	469.8	8,680	3,930	0.05155	0.1686	Merlin
0.680	17.27	0.2505	6.363	413	614.3	283	421.1	12,700	5,770	0.05809	0.1900	Ostrich
0.642	16.29	0.2364	6.006	367	546.5	252	374.4	11,300	5,130	0.06531	0.2136	Partridge
0.609	15.46	0.1217	3.091	290	430.7	251	372.3	6,880	3,120	0.06502	0.2127	Waxwing
0.563	14.31	0.1878	4.770	291.1	433.1	197.7	294.1	8,350	3,790	0.08155	0.2666	Penguin
0.502	12.74	0.1672	4.247	230.8	343.4	156.7	233.2	6,620	3,010	0.1028	0.3365	Pigeon
0.447	11.35	0.1489	3.782	183.1	272.4	124.3	185.0	5,300	2,410	0.1297	0.4243	Quail
0.398	10.11	0.1327	3.371	145.2	216.3	98.6	146.9	4,380	1,990	0.1635	0.5341	Raven
0.355	9.00	0.1181	3.000	115.2	171.4	78.2	116.4	3,550	1,610	0.2062	0.6743	Robin
0.325	8.247	0.1299	3.299	106.7	158.8	62.0	92.29	3,640	1,660	0.2600	0.8497	Sparate
0.316	8.016	0.1052	2.672	91.3	136.0	62.0	92.32	2,850	1,290	0.2600	0.8499	Sparow
0.257	6.536	0.1029	2.614	67.0	99.76	39.0	53.01	2,360	1,070	0.4134	1.353	Swanate
0.250	6.354	0.0834	2.118	57.4	85.41	39.0	58.00	1,860	845	0.4134	1.353	Swan
0.198	5.037	0.0661	1.679	36.1	53.67	24.5	36.44	1,190	541	0.6579	2.152	Turkey

High Mechanical Strength

0.664	16.86	0.398	10.11	572.5	785.2	199.3	296.7	19,640	9,410	0.08243	0.2697	Cochin
0.714	18.14	0.489	12.41	676.8	1,008	191.8	285.4	27,570	12,900	0.08577	0.2803	Brahma
0.631	16.02	0.378	9.609	476.3	708.9	180.0	267.9	17,730	8,490	0.09134	0.2986	Dorking
0.607	15.42	0.364	9.252	441.4	657.2	166.7	248.3	16,440	7,890	0.09852	0.3221	Dotterel
0.576	14.62	0.345	8.772	396.8	590.7	150.0	223.2	15,200	7,250	0.1096	0.3583	Guinea
0.530	13.45	0.318	8.070	336.0	500.0	127.0	188.9	12,920	6,160	0.1295	0.4234	Leghorn
0.481	12.21	0.288	7.323	276.6	411.7	104.6	155.6	10,730	5,110	0.1573	0.5142	Minorca
0.461	11.70	0.276	7.017	254.1	378.0	96	142.8	9,855	4,700	0.1712	0.5600	Petrel
0.367	9.322	0.1670	4.242	149.0	221.6	75.1	111.8	5,190	2,370	0.2168	0.7089	Grouse

MAX. DC CONDUCTOR RESISTANCE AT 20℃

In Accordance with ICEA S-66-524

Size (AWG,MCM)	Copper(Ω/km)				Aluminum(Ω/km)			
	Single Core	Two Cores	Three Cores	Four Cores	Single Core	Two Cores	Three Cores	Four Cores
14	8.62	8.79	8.79	8.79	-	-	-	-
12	5.43	5.54	5.54	5.54	8.88	9.06	9.06	9.06
10	3.41	3.48	3.48	3.48	5.59	5.70	5.70	5.70
9	2.71	2.76	2.76	2.76	4.43	4.52	4.52	4.52
8	2.15	2.19	2.19	2.19	3.52	3.59	3.59	3.59
6	1.34	1.37	1.37	1.37	2.21	2.25	2.25	2.25
4	0.848	0.865	0.865	0.865	1.39	1.42	1.42	1.42
2	0.534	0.545	0.545	0.545	0.875	0.893	0.893	0.893
1	0.423	0.432	0.432	0.432	0.693	0.707	0.707	0.707
1/0	0.335	0.342	0.342	0.342	0.550	0.561	0.561	0.561
2/0	0.266	0.271	0.271	0.271	0.436	0.445	0.445	0.445
3/0	0.211	0.215	0.215	0.215	0.346	0.353	0.353	0.353
4/0	0.167	0.170	0.170	0.170	0.274	0.280	0.280	0.280
250	0.142	0.145	0.145	0.145	0.232	0.237	0.237	0.237
300	0.118	0.120	0.120	0.120	0.194	0.198	0.198	0.198
350	0.101	0.103	0.103	0.103	0.166	0.169	0.169	0.169
400	0.0885	0.0903	0.0903	0.0903	0.145	0.148	0.148	0.148
450	0.0787	0.0803	0.0803	0.0803	0.129	0.132	0.132	0.132
500	0.0708	0.0722	0.0722	0.0722	0.116	0.118	0.118	0.118
600	0.0590	0.0602	0.0602	0.0602	0.0967	0.0986	0.0986	0.0986
750	0.0472	0.0482	0.0482	0.0482	0.0774	0.0789	0.0789	0.0789
1,000	0.0354	0.0361	0.0361	0.0361	0.0581	0.0593	0.0593	0.0593

In Accordance with IEC228A

1	2	3	4	5	6	7	8	9	10
Size (mm²)	Minimum number of wire in the conductor						Maxium resistance of conductor at 20℃ (Ω/km)		
	Circular conductor		Circular compacted conductor		Sector shaped conductor		Annealed copper conductor		Aluminum Conductor plain or metal-clad wires
	Cu	Al	Cu	Al	Cu	Al	Plain Wires	Metal-coated wires	
0.5	7	-	-	-	-	-	36.0	36.7	-
1	7	-	-	-	-	-	18.1	18.2	-
1.5	7	-	6	-	-	-	12.1	12.2	-
2.5	7	-	6	-	-	-	7.41	7.56	-
4	7	7+	6	-	-	-	4.61	4.70	7.41
6	7	7+	6	-	-	-	3.08	3.11	4.61
10	7	7	6	-	-	-	1.83	1.84	3.08
16	7	7	6	6	-	-	1.15	1.16	1.91
25	7	7	6	6	6	6	0.727	0.734	1.20
35	7	7	6	6	6	6	0.524	0.529	0.868
50	19	19	6	6	6	6	0.387	0.391	0.641
70	19	19	12	12	12	12	0.268	0.270	0.443
95	19	19	15	15	15	15	0.193	0.195	0.320
120	37	37	18	15	18	15	0.153	0.154	0.253
150	37	37	18	15	18	15	0.124	0.126	0.206
185	37	37	30	30	30	30	0.0991	0.100	0.164
240	61	61	34	30	34	30	0.0754	0.0762	0.125
300	61	61	34	30	34	30	0.0601	0.0607	0.100
400	60	61	53	53	53	53	0.0470	0.0475	0.0778
500	61	61	53	53	53	53	0.0366	0.0369	0.0605
630	91	91	53	53	53	53	0.0283	0.0286	0.0469
800	91	91	53	53	-	-	0.0221	0.0224	0.0367
1000	91	91	53	53	-	-	0.0176	0.0177	0.0291

+ To botain the maximum resistance of hard-drawn conductors the values in columns 8 and 9 should-be divided by 0.97

Comparison of Aluminum and Copper

	Hard-drawn Aluminum	Aluminum-Alloy	Hard drawn Copper	Annealed Standard Copper
Melting Point℃	658	approx. 650	1.083	1.083
Electrical Resistivity at 20℃, μΩ-inch	1.11277	1.30536	0.69978	0.67879
μΩ-cm	2.8264	3.3156	1.7774	1.7241
Conductivity at 20℃, % IACS	61	52	97	100
Temperature Coefficient of Resistance at 20℃, per ℃	0.0040	0.0036	0.00381	0.00393
Density at 20℃, g/cub, cm	2.70	2.70	8.89	8.89
lb/cub, in	0.09765	0.09765	0.321	0.321
Coefficient of Linear Expansion per ℃	23×10 ⁻⁶	23×10 ⁻⁶	17×10 ⁻⁶	17×10 ⁻⁶
Weight Ratio, same volume	30.371	30.371	100	100
Resistance Ratio, same size	163.93	192.30	103.09	100
	159.01	186.54	100	
Resistance Ratio, same length and same weight	48.29	56.65	100	
Tensile Strength Ratio	approx. 40	approx. 73	100	
For same length and resistance, Corss-sectional Area	159.01	185.54	100	
Diameter	126.12	136.58	100	
Weight	48.295	56.653	100	
Breaking strength	approx. 60	approx. 135	100	

MAIN PRODUCTS

BARE COPPER WIRES

- Hard Drawn Copper Wire(H)
- Annealed Copper Wire(A)
- Tinned Hard Drawn Copper Wire(TH)
- Annealed Copper Stranded Conductor(AS)
- Flexible Stranded Copper Conductor(Bunch Stranded)(BAS)
- Tinned Hard Drawn Copper Stranded Conductor(THS)
- Tinned Annealed Copper Stranded Conductor(TAS)

INSULATED WIRE & CABLES

- 450/750V PVC Insulated Wire(HIV)
- 600V Heat Resistant PVC Insulated Wire(OW)
- Outdoor Weather proof PVC Insulated Wire(OW)
- 6600V Outdoor PE Insulated Wire(OE)
- 6600V Outdoor XLPE Insulated Wire(OC)
- 22KV Outdoor XLPE Insulated Wire(OC)
- PVC Insulated Drop Service Wire(DV)
- PVC Covered Aluminium Bind Wire(SL-BI)
- High Voltage XLPE Insulated Pole Drop Wire(PDC)
- 6600V Outdoor ACSR Conductor XLPE Insulated Wire(ACSR-OC)
- 22KV Outdoor ACSR Conductor XLPE Insulated Wire(ACSR-OC)
- 6600V Outdoor Aluminium Conductor XLPE Insulated Wire(HAL-OC)
- PVC Cord for Electrical Apparatus(VF)
- PVC Insulated Cabtysped Core(VCTF)
- 600V PVC Insulated Wire for Electrical Instruments(KIV)
- Low Voltage Cable for Automobile(AV)
- PVC Insulated Cabtype Cable(VCT)
- PVC Insulated PVC Sheathed Control Cable(CW)
- PE Insulated PVC Sheathed Control Cable(CEV)
- XLPE Insulated PVC Sheathed Control Cable(CCV)
- PVC Insulated PVC Sheathed Control Cable with Electrostatic Shield(CW-S)
- PE Insulated PVC sheathed Control Cable with Electrostatic Shield(CEV-S)
- XLPE Insulated PVC Sheathed Control Cable with Electrostatic Shield(CCV-S)
- PVC Insulated PVC Sheathed Signal Cable(SW)
- PVC Insulated PVC Sheathed Self-Supporting Signal Cable(SW-SS)
- Building Wire(TW, THW)
- 600V Flame-Retardant XLPE Insulated PVC Sheathed Cable
- 600V Flame-Retardant XLPE Insulated Wire(XHHW)
- Irradiated wire & cable

ALUMINIUM WIRES

- Hard Drawn Aluminium Wire(HAL)
- Hard Drawn Aluminium Stranded Conductor(HSC)
- Annealed Aluminium Wire(AAL)
- Aluminum Conductor Steel Reinforced(ACSR)

POWER CABLES

- 0.6/1KV PVC Insulated PVC Sheathed Cable(VV)
- 0.6/1KV PE Insulated PVC Sheathed Cable(EV)
- 0.6/1KV XLPE Insulated PVC Sheathed Cable(CV)
- 1.8/3KV XLPE Insulated PVC Sheathed Cable(CV)
- 6/10KV XLPE Insulated PVC Sheathed Cable(CV)
- 8.7/15KV XLPE Insulated PVC Sheathed Cable(CV)
- 12/20KV XLPE Insulated PVC Sheathed Cable(CV)
- 18/30KV XLPE Insulated PVC Sheathed Cable(CV)
- Triplex Type CV Cable(CVT)
- XLPE Insulated PVC Sheathed Wire Armoured Cable(CV-WAV)

COMMUNICATION WIRE & CABLES

- PVC Insulated Indoor Telephone Wire(TIV)
- PVC Insulated Outdoor Telephone Wire(TOV)
- PVC Insulated Self-supporting Outdoor Telephone Wire(TOV-SS)
- PVC Insulated Jumper Wire(TJV)
- PVC Insulated Nylon Jacket Jumper Wire(TJVN)
- PE Insulated Jumper Wire(TJE)
- PE Insulated Outdoor Telephone Wire(TOE)
- High Frequency Coaxial Cable(ECX)
- PVC Insulated PVC Sheathed Switchboard Cable(SWV-SH)
- PE Insulated PE Sheathed pair Type City Cable(CCP-LAP-SZ-SS)
- PE Insulated Jelly Filling PE Sheathed City Cable(CCP-JF-LAP)
- PEF-LAP Toll Cable(PEF-LAP)
- Foam/Skin Jelly Filling Cable(FS-JF-LAP)
- PE Insulated Z Screened Stalpeth Cable(PCM-Z Screen-STALPETH)
- ALPETH Cable
- STALPETH Cable
- Wire Armoured Cable
- Steel Tape Armoured Cable
- PE Insulated Self-Supporting City Cable(CPE-SS)

OPTICAL FIBER CABLES

- Loose Tube Core metallic Cable
- Loose Tube Core non-metallic Cable
- Loose Tube Core Self Supported Cable
- Loose Tube Core Armoured Cable

DATA-COMMUNICATION (LAN) CABLES

- Category 6 UTP Cable
- Category 5 Enhanced UTP Cable
- Category 5 UTP Cable
- Category 3 UTP Cable
- Halogen-Free Lan Cable