



Eco-Friendly Company

DAERYUNG



(주)대륜전선
D R C Daeryung Cable Co., LTD.

GAZT



빛이 있기에 언제나 고객의 곁으로 다가갑니다.

국내 전선산업의 선두기업 -대륜전선-

하나의 제품을 만들더라도
최고의 품질과 신뢰를 가진 제품만이 생존할수 있기에
대륜은 언제나 한결같은 마음으로
인간과 사회의 발전을 염두에 두면서 생산성 향상을 통하여
전선업계의 글로벌 최적화를 향해 도전하며
오늘도 고객의 요구에
최고의 만족을 드리는 기업이 되도록 노력하겠습니다.



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Introduction

인사말씀

(주)대륜전선은

1967년 창립하여 오직 고객의 만족을 모토로 최선의 노력으로 항상 연구개발을 통한 기술혁신과 고품질 생산에 온 정성을 기울여왔습니다.

고품질 생산은 곧 고객의 사랑으로 이어진다는 진리를 항상 귀기울여 제품 하나하나를 만들어도 장인정신이 깃든 혼을 다하는 기업으로, 여러분앞에 한층 더 다가서도록 최선을 다하겠습니다.

대표이사
林 熙 源 拜

DaeRyung Cable co., Ltd.

Founded in 1969, with the motto of customer satisfaction, We have always devoted our best efforts to technological innovation and high-quality production through R&D. As a company that always listens to the truth that high-quality production leads to customer's love and makes every single product, We will do our best to get closer to you as a company with the spirit of craftsmanship.

CEO
Lim Hee-won

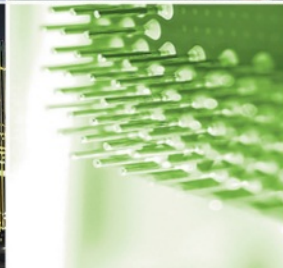
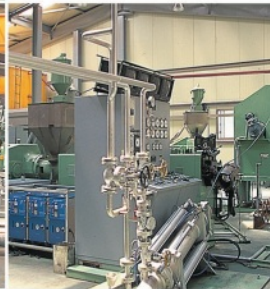
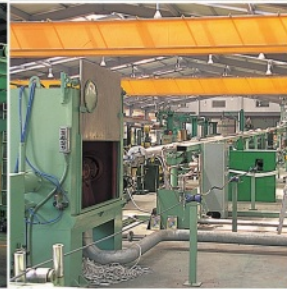
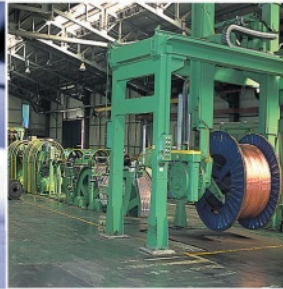
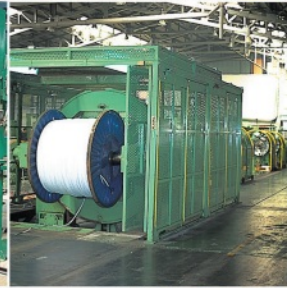
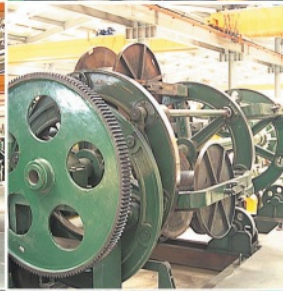


DAERYUNG CABLE

전 / 선 / 은 / 산 / 업 / 의 / 동 / 맥

고 / 품 / 질 / 로 / 고 / 객 / 에 / 보 / 답 / 하 / 겠 / 습 / 니 / 다 .

The electric wire will repay customers with
high quality the by artery of the industry.



회사연혁

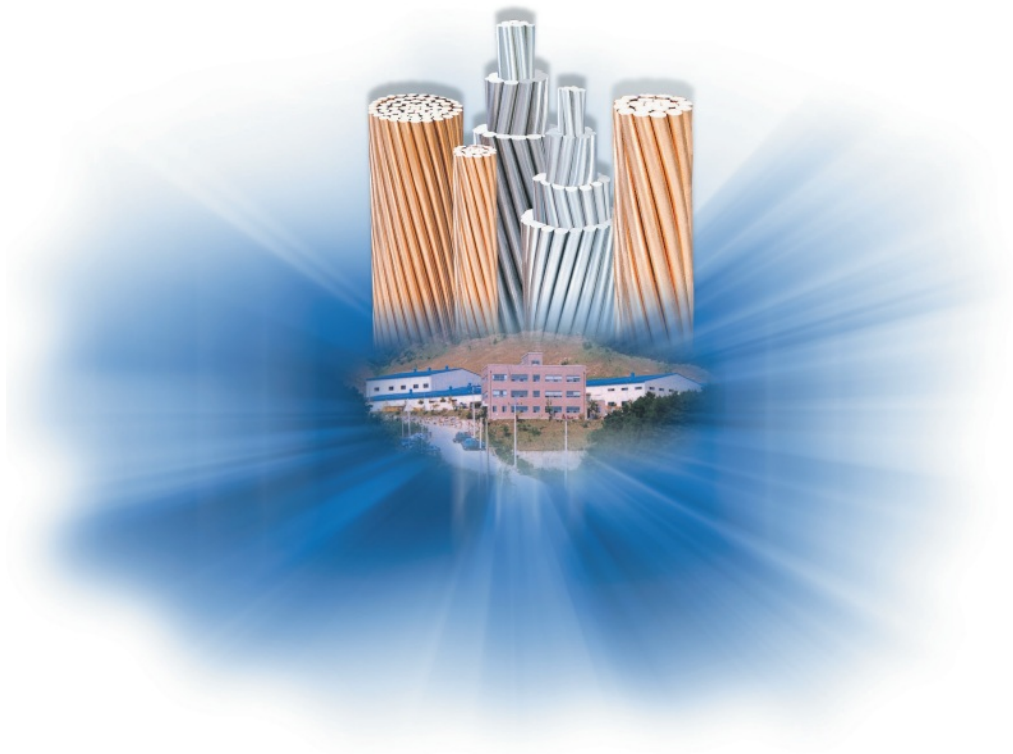


- 1967. 09 대륙전선 공업사 설립. 합성수지 절연전선류 IV, OW, DV, W등 4개 품목 형식 승인 취득
- 1976. 11 비닐전선 비닐 시즈 케이블(평형) 형식승인 1종 취득
- 1982. 06 한국전선공업 협동조합 가입
- 1983. 10 대륙전선공업사에서 대륙전선공업주식회사로 법인전환
- 1983. 12 한국공업규격(KS) 전기용 연동선 외 6개 품목 최초 취득
- 1987. 03 KIV, 비닐코드, HIV 3개 품목 KS 추가취득
- 1988. 11 WR, CW 2개 품목 KS 추가취득
- 1989. 09 한국전력공사 내후성 DV 개발인증 승인
- 1990. 05 600V 폴리에틸렌 케이블 KS 추가 취득
- 1992. 03 알루미늄선 및 강심알루미늄연선 KS 추가취득
- 1993. 02 한국전력공사 난연성 제어용 케이블 개발인증 승인
- 1993. 05 한국전력공사 알루미늄피복 강심알루미늄연선(ACSR/AW)개발 인증 승인
- 1996. 01 한국전력공사 ACSR/CARDINAL 480SQ 개발인증 승인
- 1997. 03 충북 진천군 초평면 용산리로 공장 확장 이전(대지 1만평 건평 2천 5백 60평)
주식회사 대륙전선으로 상호변경
- 1997. 11 한국전력공사 6.6KV ACSR-OC, 22.9KV ACSR/AW-OC 개발 인증 승인
- 1998. 07 고압CV KS 취득(3.3KV 및 6.6KV)
- 1999. 01 ISO 9002 인증
- 1999. 04 한국전력공사 고압 및 특고압 인하용 절연전선 개발 인증 승인
- 2002. 01 ISO 9001 인증
- 2002. 04 TFR-CV, CW, CVS 안전인증 마크취득
- 2003. 07 TFR-3, TFR-8, TFR-GV 안전인증 마크취득
- 2003. 07 TFR-CV 100SQ 이상 조합 단체 표준 인증취득
- 2005. 09 500만불 수출탑 수상
- 2006. 10 경영혁신형 중소기업 선정
- 2007. 07 공장증축(건평:300평-시험동 증축)
- 2010. 04 22.9 KV FR-CNCO-W 한전개발인증승인
- 2010. 08 22.9 KV TR-CNCE-W 한전개발인증승인
- 2012. 04 22.9 KV TR-CNCE-W(AL) 한전개발인증승인
- 2013. 12 22.9 KV FR-CNCO-W(AL) 한전개발인증승인
- 2021. 10 ACSR/AW-TR/OC 한전개발인증승인



C Company Profile

September,	1967	Founded Dae Ryung Electric Wire Industrial Company
October,	1976	Obtained an Authorization from the Government for Manufacturing Electric Wires and Appliances.
June,	1982	Joined the Korea Electric Wire Industrial Cooperative Union.
October,	1983	Registered as Corporation(Dae Ryung Electric Wire & Cable Co., Ltd)
December,	1983	Acquired KS Mark(Korea Industrial Standard)in Consequence, Started to Supply the Wires and Cables to Korea Electric Power Co., Ltd.
March,	1992	Acquired the Approval of the Korea Electric Power Corporation(KEPCO), (ACSR KS Mark)Total 23 Kinds.
January,	1994	Became a Member of KOTRA(Korea Trading Promotion Association)
March,	1997	Planned to move into New Factory Located in Jinchun, Choongbuk Korea. Area Space:40,000 Square Meter, Plant Building:9,000 Square Meter
January,	1999	Acquired the Certificate of ISO 9002.
April,	1999	Renderred to Nominate the Prospective Firm Among the Selection of Small & Medium Scale Enterprizes Recommended by Small & Medium Scale Enterprizer Derelopment Estate Group.
January,	2002	Acquired the Certificate of ISO 9001.
April,	2002	Acquired the Approval of the KETI,(TFR-CV, CVV, CVS)
July,	2003	Acquired the Approval of the KETI,(TFR-3, TFR-8, TFR-GV)
July,	2003	Acquired the Approval of the KETI,(TFR-CV, 100SQ)
October,	2006	Received a Prize for Making the Actual Export of Five Million Dollar.
July,	2007	Renderred to Nominate the Prospective Firm Among the Selection of Small & medium Business Administration.
April,	2010	Acquired the Approval of the KEPCO,(22.9KV FR-CNCO-W)
August,	2010	Acquired the Approval of the KEPCO,(22.9KV TR-CNCE-W)
April,	2012	Acquired the Approval of the KEPCO,(22.9KV TR-CNCE-W(AL))
December,	2013	Acquired the Approval of the KEPCO,(22.9KV FR-CNCO-W(AL))
October,	2021	Acquired the Approval of the KEPCO,(ACSR/AW-TR/OC)



송 · 배전선 나동선 및 알루미늄선

Copper and Aluminium Wire

- Hard-Drawn Copper Stranded Wire for Electrical Purpose(HS)
- Annealed Copper Stranded Wire for Electrical Purpose(AS)
- Aluminium Conductor
- ACSR Construction
- Aluminium Conductor Steel Reinforced(ACSR/ACSR-Cardinal)
- Aluminium Conductor Aluminium-Clad Steel Reinforced
(ACSR/AW, ACSR/AW-Cardinal)
- Modulus of Elasticity / Coefficient Linear Expansion of a Bare Conductor
- Aluminium Conductor Cross-Linked Polyethylene Insulated Wire

Hard-Drawn Copper Stranded Wire for Electrical Purpose(HS)

일반용 - For General Purpose

공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	계산단면적 Calculated Section Area mm ²	완성 외경 Overall Diameter mm	중 량 Weight kg/km	도체저항 Max. Conductor Resistance at 20℃ Ω /km	인장하중 Min. Tensile Load kgf	길 이 Length m/reel	중 량 Weight kg/reel
1,000	127/3.2	1,021	41.6	9,315	0.0179	40,100	300	3,380
850	127/2.9	838.8	37.7	7,651	0.0217	33,100	300	2,880
725	91/3.2	731.8	35.2	6,655	0.0248	28,700	300	2,560
600	91/2.9	601.1	31.9	5,466	0.0303	23,800	300	2,010
500	61/3.2	490.6	28.8	4,448	0.0370	19,300	300	1,630
400	61/2.9	402.9	26.1	3,654	0.0450	15,900	300	1,310
325	61/2.6	323.8	23.4	2,937	0.0560	12,900	300	1,070
250	61/2.3	253.5	20.7	2,298	0.0715	10,200	500	1,280
200	37/2.6	196.4	18.2	1,776	0.0920	7,830	500	1,020
150	37/2.3	153.7	16.1	1,390	0.118	6,160	600	945
125	19/2.9	125.5	14.5	1,129	0.143	4,960	600	765
100	19/2.6	100.9	13.0	907.6	0.178	4,020	600	625
80	19/2.3	78.95	11.5	710.3	0.228	3,160	1,000	795
60	19/2.0	59.70	10.0	537.0	0.301	2,410	1,000	605
50	19/1.8	48.36	9.0	435.1	0.376	1,970	1,000	480
38	7/2.6	37.16	7.8	334.4	0.484	1,480	1,000	-
30	7/2.3	29.09	6.9	261.7	0.618	1,170	1,000	-
22	7/2.0	21.99	6.0	197.9	0.818	888	1,000	-
14	7/1.6	14.08	4.8	126.7	1.29	574	1,000	-
8.0	7/1.2	7.917	3.6	71.19	2.30	326	1,000	-
5.5	7/1.0	5.498	3.0	49.46	3.31	227	1,000	-
3.5	7/0.8	3.519	2.4	31.66	5.17	146	1,000	-
2.0	7/0.6	1.979	1.8	17.80	9.18	83	1,000	-
1.4	7/0.5	1.375	1.5	12.37	13.2	58	1,000	-
0.9	7/0.4	0.8799	1.2	7.913	20.7	37	1,000	-

가공 송전용 - For Overhead Transmission Purpose

공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	계산단면적 Calculated Section Area mm ²	완성 외경 Overall Diameter mm	중 량 Weight kg/km	도체저항 Max. Conductor Resistance at 20℃ Ω /km	인장하중 Min. Tensile Load kgf	길 이 Length m/reel	중 량 Weight kg/reel
240	19/4.0	238.8	20.0	2,148	0.0753	9,180	600	1,450
200	19/3.7	204.3	18.5	1,838	0.0880	7,900	700	1,430
180	19/3.5	182.8	17.5	1,645	0.0984	7,130	800	1,490
150	19/3.2	152.8	16.0	1,375	0.118	6,000	1,000	1,550
125	19/2.9	125.5	14.5	1,129	0.143	4,960	1,000	1,250
100	7/4.3	101.6	12.9	914.5	0.177	3,880	1,000	625
75	7/3.7	75.25	11.1	677.0	0.239	2,910	1,000	545
55	7/3.2	56.29	9.6	506.4	0.320	2,210	1,000	575
45	7/2.9	46.24	8.7	146.0	0.389	1,830	1,000	465
38	7/2.6	37.16	7.8	334.4	0.484	1,480	1,000	380
30	7/2.3	29.09	6.9	261.7	0.618	1,170	1,200	355
22	7/2.0	21.99	6.0	197.9	0.818	888	1,200	275

전기용 연동 연선

Annealed Copper Stranded Wire for Electrical Purpose(AS)

KSC:3103

공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	계산단면적 Calculated Sectional Area mm ²	완성 외경 Overall Diameter mm	도체저항 Max. Conductor Resistance at 20℃ Ω /km	중 량 Approx. Weight kg/km	표준길이 Standard Length m
1,000	127/3.2	1,021	41.6	0.073	9,315	300
850	127/2.9	838.8	37.7	0.0211	7,651	300
725	91/3.2	731.8	35.2	0.0241	6,656	300
600	91/2.9	601.1	31.9	0.0293	5,166	300
500	61/3.2	490.6	28.8	0.0359	4,448	300
400	61/2.9	402.9	26.1	0.0136	3,654	300
325	61/2.6	323.8	23.4	0.0543	2,937	300
250	61/2.3	253.5	20.7	0.0694	2,298	300
200	37/2.6	196.4	18.2	0.0893	1,776	500
150	37/2.3	153.7	16.1	0.114	1,390	600
125	19/2.9	125.5	14.5	0.139	1,129	600
100	19/2.6	100.9	13.0	0.173	907.6	600
80	19/2.3	78.95	11.5	0.221	710.3	1,000
60	19/2.0	59.70	10.0	0.292	537.0	1,000
50	19/1.8	48.36	9.0	0.361	435.1	1,000
38	7/2.6	37.16	7.8	0.470	334.4	1,000
30	7/2.3	29.09	6.9	0.600	261.7	1,000
22	7/2.0	21.99	6.0	0.793	197.9	1,000
14	7/1.6	14.08	4.8	1.24	126.7	1,000
8	7/1.2	7.917	3.6	2.20	71.19	1,000
5.5	7/1.0	5.498	3.0	3.17	49.46	1,000
3.5	7/0.8	3.519	2.4	4.96	31.66	1,000
2.0	7/0.6	1.979	1.8	8.82	17.80	1,000
1.4	7/0.5	1.375	1.5	12.7	12.37	1,000
1.25	7/0.45	1.113	1.35	15.8	10.02	1,000
0.9	7/0.4	0.8799	1.2	20.0	7.913	1,000

KS C IEC 60228

공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	계산단면적 Calculated Sectional Area mm ²	완성 외경 Overall Diameter mm	도체저항 Max. Conductor Resistance at 20℃ Ω /km	중 량 Approx. Weight kg/km	표준길이 Standard Length m
1,000	127/3.20	1021.39	41.60	0.0176	9439.86	300
800	127/2.85	810.18	37.05	0.0221	7481.70	300
630	127/2.52	633.42	32.76	0.0283	5854.30	300
500	61/3.20	490.59	28.80	0.0366	4470.04	300
400	61/2.85	389.14	25.65	0.0470	3549.98	300
300	61/2.52	304.24	22.68	0.0601	2775.72	300
240	61/2.25	242.54	20.25	0.0754	2211.04	300
185	37/2.52	184.54	17.64	0.0991	1671.85	500
150	37/2.25	147.11	15.75	0.124	1331.92	600
120	37/2.03	119.75	14.21	0.153	1084.59	600
95	19/2.52	94.76	12.60	0.193	854.91	600
70	19/2.14	68.34	10.70	0.268	616.68	1,000
50	19/1.78	47.28	8.90	0.387	426.62	1,000
35	7/2.52	34.91	7.56	0.524	313.57	1,000
25	7/2.14	25.18	6.42	0.727	225.87	1,000
16	7/1.70	15.89	5.10	1.15	142.61	1,000
10	7/1.35	10.02	4.05	1.83	89.92	1,000
6	7/1.04	5.95	3.12	3.08	53.38	1,000
4	7/0.85	3.97	2.55	4.61	35.64	1,000
2.5	7/0.67	2.47	2.01	7.41	22.14	1,000
1.5	7/0.53	1.54	1.59	12.1	13.85	1,000
1	7/0.40	0.89	1.20	18.1	7.90	1,000
0.75	7/0.37	0.752	1.11	24.5	6.84	1,000
0.5	7/0.32	0.56	0.96	36.0	5.09	1,000

● Description of the conductors

➡ ACSR (강심 알루미늄 연선)

ACSR (Aluminium Conductor, Steel Reinforced) has been the most favoured conductor, particularly for the higher power transmission lines.

A coating of non-oxidizing grease is normally applied to the steel cores of all conductors, in addition to the protection afforded by the galvanizing of the steel wires.

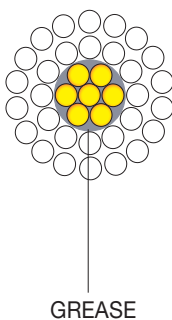
One or more layers of the aluminium wires can, if required, be supplied partially or fully greased.

➡ AAC (알루미늄 연선)

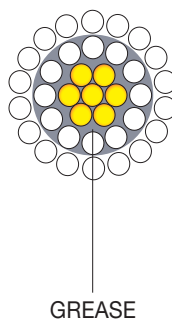
AAC (All-Aluminium Conductor) as the most favoured type for use in the construction of relatively short-span distribution schemes and is in common use on lower voltage lines.

● Greased ACSR

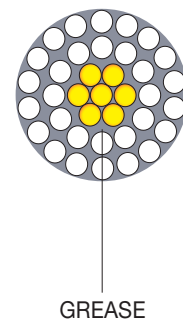
LIGHT GREASED TYPE
(ACSR - CZ)



MEDIUM GREASED TYPE
(ACSR - IZ)



HEAVY GREASED TYPE
(ACSR - SZ)





Smooth Body



Smooth Body



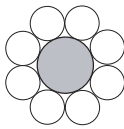
3 Al/4 St.



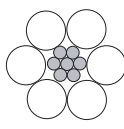
4 Al/3 St.



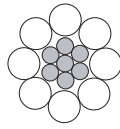
6 Al/1 St.



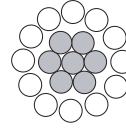
8 Al/1 St.



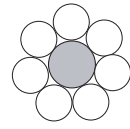
6 Al/7 St.



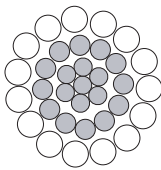
8 Al/7 St.



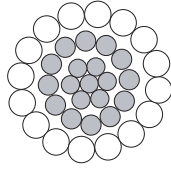
12 Al/7 St.



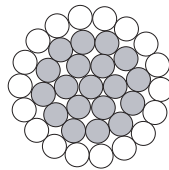
7 Al/1 St.



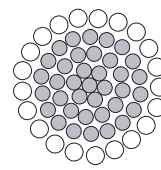
15 Al/19 St.



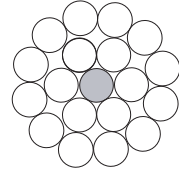
16 Al/19 St.



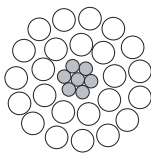
18 Al/19 St.



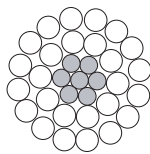
21 Al/37 St.



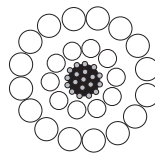
18 Al/1 St.



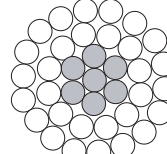
24 Al/7 St.



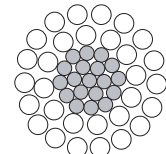
26 Al/7 St.



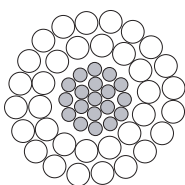
26 Al/19 St.



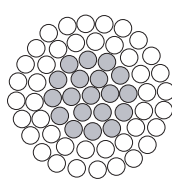
30 Al/7 St.



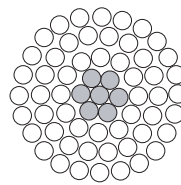
30 Al/19 St.



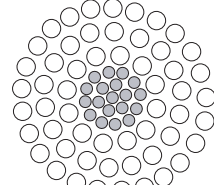
34 Al/19 St.



42 Al/19 St.



54 Al/7 St.



54 Al/19 St.

Aluminium Conductor Steel Reinforced(ACSR/ACSR Cardinal)

공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire		단면적 Cross-sectional Area		완성품 외경 Overall Diameter		계산중량 Calculated Weight			인장하중 Min. Tensile Load kg	도체저항 Max. Conductor Resistance at 20℃ Ω /km	Hard-Drawn Copper Equiv. Area mm ²	길이 Length m
	Al mm	Steel mm	Al mm ²	Steel mm ²	Al mm	Steel mm	Al kg/km	Steel kg/km	Total kg/km				
19	6/2.0	1/2.0	18.85	3.152	6.0	2.0	51.61	24.51	76.12	698	1.52	12	1,000
25	6/2.3	1/2.3	24.93	4.155	6.9	2.3	68.26	32.41	100.7	907	1.52	16	1,000
32	6/2.6	1/2.6	31.85	5.309	7.8	2.6	87.18	41.41	128.6	1,140	0.899	20	95
40	6/2.9	1/2.9	39.63	6.605	8.7	2.9	108.50	51.52	160.0	1,400	0.723	25	1,000
48	6/3.2	1/3.2	48.25	8.042	9.6	3.2	132.1	62.73	194.8	1,660	0.593	30	1,000
58	6/3.5	1/3.5	57.73	9.621	10.5	3.5	158.1	75.04	233.1	1,980	0.497	36	1,000
64	12/2.6	7/2.6	63.71	37.16	13.0	7.8	175.4	291.3	466.7	5,510	0.452	40	1,000
65	6/3.7	1/3.7	64.50	10.75	11.1	3.7	176.6	83.85	260.5	2,220	0.444	41	1,000
75	6/4.0	1/4.0	75.42	12.57	12.0	4.0	206.5	98.05	304.6	2,510	0.380	47	1,000
79	12/2.9	7/2.9	79.26	46.24	14.5	8.7	218.2	362.4	580.6	6,820	0.364	50	1,000
80	6/4.2	1/4.2	83.10	13.85	12.6	4.2	227.5	108.0	335.5	2,770	0.345	52	1,000
95	6/4.5	1/4.5	95.40	15.90	13.5	4.5	261.2	124.0	385.2	3,180	0.301	60	1,300
97	12/3.2	7/3.2	96.50	56.26	16.0	9.6	265.7	441.3	707.0	8,050	0.298	61	1,400
110	26/2.3	7/1.8	108.0	17.82	14.6	5.4	299.3	139.6	438.9	3,990	0.268	68	1,300
120	12/3.5	7/3.5	115.5	67.35	17.5	10.5	318.0	527.9	845.9	9,950	0.250	73	1,300
120	30/2.3	7/2.3	124.7	29.09	16.1	6.9	345.7	228.0	573.7	5,550	0.233	78	1,300
140	26/2.6	7/2.0	138.0	21.99	16.4	6.0	382.3	172.4	554.7	4,810	0.210	87	1,450
160	30/2.6	7/2.6	159.3	37.16	18.2	7.8	441.5	291.3	732.8	6,990	0.182	100	1,900
170	26/2.9	7/2.25	171.7	27.83	18.35	6.75	475.6	218.2	693.8	5,980	0.169	108	1,250
200	30/2.9	7/2.9	198.2	46.24	20.3	8.7	549.3	362.4	911.7	8,620	0.147	125	1,400
210	26/3.2	7/2.5	209.1	34.36	20.3	7.5	578.1	269.4	848.5	7,290	0.139	131	1,400
240	30/3.2	7/3.2	241.3	56.29	22.4	9.6	668.9	441.3	1,110	10,210	0.120	152	1,400
250	26/3.5	7/2.7	250.1	40.08	22.1	8.1	693.0	313.8	1,007	8,590	0.116	157	1,400
280	26/3.7	7/2.9	279.5	46.24	23.5	8.7	774.4	362.4	1,237	9,780	0.104	176	1,400
290	30/3.5	7/3.5	288.6	67.35	24.5	10.5	800.4	527.9	1,328	12,170	0.101	181	1,000
320	30/3.7	7/3.7	322.5	75.25	25.9	11.1	894.4	589.9	1,484	13,630	0.090	203	1,000
330	16/4.0	7/3.1	326.8	52.84	25.3	9.3	905.4	414.2	1,320	10,930	0.0888	206	1,000
360	26/4.2	7/3.2	360.1	56.29	26.4	9.6	997	441.3	1,439	11,860	0.0805	226	1,000
380	30/4.0	19/2.4	377.1	85.96	28.0	12.0	1,046	675.2	1,721	15,930	0.0070	237	1,000
410	26/4.5	7/3.5	413.4	67.35	28.5	10.5	1,145	527.9	1,673	13,890	0.0702	260	1,000
420	30/4.2	19/2.5	415.5	93.27	29.4	12.5	1,152	732.6	1,885	17,380	0.0698	261	1,000
430	26/4.6	7/3.6	432.1	71.26	29.2	10.8	1,197	558.6	1,756	14,610	0.0671	272	1,000
480(Ca.)	54/3.38	7/3.38	484.53	62.81	30.42	10.14	1,345	495.0	1,850	15,300	0.0599	300	1,000 or 2,000
480	45/3.7	7/2.47	483.84	33.54	29.61	7.41	1,341	263.7	1,599	11,800	0.05994	300	2,000
510	26/5.0	7/3.9	510.6	83.65	31.7	11.7	1,415	655.7	2,071	17,210	0.0568	321	1,000
520	54/3.5	7/3.5	519.5	67.35	31.5	10.5	1,441	527.9	1,969	15,600	0.0559	327	1,000
580	54/3.7	7/3.7	580.5	75.25	33.3	11.1	1,610	589.9	2,200	17,470	0.0500	365	1,000
590	30/5.0	19/3.0	589.2	134.3	35.0	15.0	1,634	1,055	2,689	24,300	0.0493	371	1,000
610	54/3.8	7/3.8	612.4	79.38	34.2	11.4	1,698	622.2	2,320	18,150	0.0474	385	1,000
680	54/4.0	19/2.4	678.8	85.96	36.0	12.0	1,882	675.2	2,557	20,310	0.0428	427	800
750	54/4.2	19/2.5	747.9	93.27	37.8	12.5	2,074	732.6	2,807	22,220	0.0388	470	600
860	54/4.5	19/2.7	858.6	108.8	40.5	13.5	2,380	854.5	3,236	25,710	0.0339	540	600

알루미늄피복 강심 알루미늄 연선

Aluminium Conductor Aluminium-Clad Steel Reinforced (ACSR/AW, ACSR/AW Cardinal)

공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire		계산단면적 Calculated Sectional Area		인장하중 Tensile Load kgf	완성품외경 Overall Diameter		중량 Approx. Weight kg/km	도체저항 Approx. Conductor Resistance Ω /km	길이 Length m
	AL No./mm	AW No./mm	AL No./mm	AW No./mm		AL mm	AW mm			
32	6/2.6	1/2.6	31.85	5.309	1,140	7.8	2.6	√120.6	0.852	1,000
58	6/3.5	1/3.5	57.73	9.621	1,980	10.5	3.5	299.7	0.471	1,000
65	12/2.6	7/2.6	63.71	37.17	5,415	13.0	7.8	401	0.380	"
95	6/4.5	1/4.5	95.40	15.90	3,180	13.5	4.5	362	0.285	"
97	12/3.2	7/3.2	96.5	56.29	10,600	16.0	9.6	608	0.295	"
130	12/3.5	7/3.5	115.45	67.35	9,590	17.5	10.5	737	0.210	"
160	30/2.6	7/2.6	159.3	37.16	6,990	18.2	7.8	676.4	0.169	"
240	30/3.2	7/3.2	241.3	56.29	10,210	22.4	9.6	1,024	0.111	"
330	26/4.0	7/3.1	326.8	52.84	10,930	25.3	9.3	1,239	0.0842	"
410	26/4.5	7/3.5	413.4	67.35	13,890	28.5	10.5	1,578	0.0665	"
480(Ca.)	54/3.38	7/3.38	484.53	62.81	15,300	30.42	10.14	1,850	0.0599	"
480	45/3.7	7/2.47	483.84	33.54	11,800	29.61	7.41	1,544	0.0586	"
520	54/3.5	7/3.5	519.5	67.35	15,600	31.5	10.5	1,848	0.0536	*1,000 *2,000

주 : * : 1조의 길이 1,000M는 보수 및 소규모 공사용이고 2,000M는 대규모 공사용임.
(Ca.) : (ACSR Cardinal) or (ACSR/AW Cardinal)를 나타냄.

Aluminium Conductor Steel Reinforced(ACSR)

(ASTM B 232-81)

코드명 Code Name	도체규격 Conductor Size		소선수/지름 Number & Diameter of Wire		단면적 Cross-sectional Area			완성품 외경 Overall Diameter	계산중량 Calculated Weight			인장하중 Tensile Load		도체저항 D.C. Resistance at 20°C
	AWG	MCM	Al mm	Steel mm	Al mm ²	Steel mm ²	Total mm ²		Al kg/km	Steel kg/km	Total kg/km	kgf	kn	
Turkey	6	26.24	6/1.68	1/1.68	13.30	2.22	15.52	5.04	37	17	54	540	5.29	2.150
Thrush	5	33.22	6/1.89	1/1.89	16.83	2.81	19.64	5.67	46	22	68	678	6.65	1.699
Swan	4	41.74	6/2.12	1/2.12	21.18	3.53	24.71	6.36	58	27	85	846	8.30	1.350
Swanate	4	41.74	7/1.96	1/2.61	21.12	5.35	26.47	6.53	58	42	100	1067	10.46	1.354
Swallow	3	52.68	6/2.38	1/2.38	26.69	4.45	31.14	7.14	73	35	108	1042	10.22	1.071
Sparrow	2	66.36	6/2.67	1/2.67	33.59	5.60	39.19	8.01	92	44	136	1289	12.64	0.8513
Sparate	2	66.36	7/2.47	1/3.30	33.54	8.55	42.09	8.24	92	67	159	1650	16.18	0.8526
Robin	1	83.69	6/3.00	1/3.30	42.41	7.07	49.48	9.00	116	55	171	1612	15.81	0.6742
Raven	1/0	105.6	6/3.37	1/3.37	53.52	8.92	62.44	10.11	147	69	216	1987	19.49	0.5343
Quail	2/0	133.1	6/3.38	1/3.78	67.33	11.22	78.55	11.34	185	87	272	2401	23.55	0.4247
Pigeon	3/0	167.8	6/4.25	1/4.25	85.12	14.19	99.31	12.75	234	110	334	3006	29.48	0.3359
Penguin	4/0	211.6	6/4.77	1/4.77	107.2	17.87	125.1	14.31	294	139	433	3787	37.14	0.2667
Waxwing		266.8	18/3.09	1/3.09	135.0	7.50	142.5	15.45	372	58	430	3118	30.58	0.2129
Owl		266.8	6/5.36	7/1.79	135.4	17.62	153.0	16.09	371	138	509	4406	43.21	0.2112
Partridge		266.8	26/2.57	7/2.00	134.9	21.99	156.9	16.28	374	172	546	5113	50.14	0.2141
Ostrich		300	26/2.73	7/2.12	152.2	24.71	176.9	17.28	422	193	615	5756	56.45	0.1897
Merlin		336.4	18/2.47	1/3.47	170.2	9.46	179.7	17.35	469	74	543	3931	38.55	0.1688
Linnet		336.4	26/2.89	7/2.25	170.6	27.83	198.4	18.31	473	217	690	6413	62.89	0.1693
Oriole		336.4	30/2.69	7/2.69	170.5	39.78	210.3	18.83	474	311	785	7866	77.14	0.1698
Chickadee		397.5	18/3.77	1/3.77	200.9	11.16	212.1	18.85	554	87	641	4500	44.13	0.1430
Brant		397.5	24/3.27	7/2.18	201.6	26.13	227.7	19.62	559	204	763	6645	65.16	0.1432
Ibis		397.5	26/3.14	7/2.44	201.3	32.73	234.0	19.88	558	256	814	7378	72.35	0.1434
Lark		397.5	30/2.92	7/2.92	200.9	46.88	247.8	20.44	558	367	925	9203	90.25	0.1441
Pelican		477	18/4.14	1/4.14	242.3	13.46	255.8	20.70	668	105	773	5347	52.43	0.1186
Flicker		477	24/3.58	7/3.29	241.6	31.40	273.0	21.49	669	245	914	7791	76.40	0.1195
Hawk		477	26/3.44	7/2.67	241.6	39.19	280.8	21.77	669	306	975	8844	86.73	0.1195
Hen		477	30/3.20	7/3.20	241.3	56.30	297.6	22.40	670	440	1110	10784	105.75	0.1200
Osprey		556.5	18/4.47	1/4.47	282.5	15.69	298.2	22.35	779	112	891	6233	61.12	0.1017
Parakeet		556.5	24/3.87	7/2.58	282.3	36.60	318.9	23.22	782	286	1068	9000	88.26	0.1023
Dove		556.5	26/3.72	7/2.89	282.6	45.92	328.5	23.55	783	359	1142	10260	100.62	0.1022
Eagle		556.5	30/3.46	7/3.46	282.1	65.82	347.9	24.22	783	515	1298	12607	123.63	0.1026
Peacock		605	24/4.03	7/2.69	306.1	39.78	345.9	24.19	848	311	1159	9771	95.82	0.9434
Squab		605	26/3.87	7/3.01	305.8	49.81	355.6	24.51	847	389	1236	11019	108.06	0.09443
Wood Duck		605	30/3.61	7/3.61	307.1	71.65	378.8	25.27	853	560	1413	13140	128.86	0.09426
Teal		605	30/3.61	19/2.16	307.1	69.62	376.7	25.24	853	545	1398	13568	133.06	0.09426
Kingbird		636	18/4.78	1/4.78	323.0	17.95	341.0	23.90	891	140	1031	7128	69.90	0.08896
Swift		636	36/3.38	1/3.38	232.0	8.97	382.0	23.66	891	70	961	6253	61.32	0.08896
Rook		636	24/4.14	7/2.76	323.1	41.88	365.0	24.84	891	327	1218	10299	101.00	0.08937
Grosbeak		636	26/3.97	7/3.09	321.8	52.49	374.3	25.15	892	410	1302	11428	112.07	0.08973
Scoter		636	30/3.70	7/3.70	322.6	75.26	397.9	25.90	896	588	1484	13803	135.36	0.08973

강심 알루미늄 연선

Aluminium Conductor Steel Reinforced(ACSR)

(ASTM B 232-81)

코드명 Code Name	도체규격 Conduct Size	소선수/지름 Number & Diameter of Wire		단면적 Cross-sectional Area			완성품 외경 Overall Diameter	계산중량 Calculated Weight			인장하중 Tensile Load		도체저항 D.C. Resistance at 20℃
		MCM	Al mm	Steel mm	Al mm ²	Steel mm ²	Total mm ²	Al kg/km	Steel kg/km	Total kg/km	kgf	kn	ohm/km
Egret	636	30/3.70	19/2.22	322.6	73.54	596.1	25.90	896	576	1472	14304	140.27	0.08973
Flamingo	666.6	24/4.23	7/2.82	337.3	43.72	381.0	25.38	935	342	1277	10752	105.44	0.08561
Gannet	666.6	26/4.07	7/3.16	338.3	54.90	393.2	25.76	937	429	1366	11978	117.46	0.08536
Stilt	715.5	24/4.39	7/2.92	363.3	46.88	410.2	26.32	1007	366	1373	11554	113.31	0.07948
Starling	715.5	24/4.21	7/3.28	361.9	59.15	421.1	26.68	1003	462	1465	12865	126.16	0.07979
Crow	715.5	54/2.92	7/3.92	361.6	46.88	408.5	26.28	1002	366	1368	11753	115.26	0.07986
Redwing	715.5	30/3.92	19/2.35	362.1	82.41	444.5	27.43	1006	645	1651	15650	153.47	0.07994
Coot	795	36/3.77	1/3.77	401.9	11.16	413.1	26.39	1108	87	1195	7580	74.33	0.07150
Cuckoo	795	24/4.62	7/3.08	402.3	52.15	454.5	27.72	1115	407	1522	12650	124.05	0.07178
Drake	795	26/4.44	7/3.45	402.6	65.44	468.0	28.11	1115	511	1626	14267	139.91	0.07172
Tern	795	45/3.38	7/2.25	403.8	27.83	431.6	27.03	1119	207	1326	10027	98.33	0.07151
Condor	795	54/3.08	7/3.08	402.3	52.15	454.5	27.72	1115	407	1522	12771	125.24	0.07178
Mallard	795	30/4.14	19/2.48	403.8	91.78	495.6	28.96	1121	718	1839	17439	171.02	0.07169
Crane	874.5	54/3.23	7/3.23	442.5	57.36	499.9	29.07	1226	448	1674	14046	137.74	0.06526
Ruddy	900	45/3.29	7/2.40	455.5	31.67	487.2	28.74	1262	247	1509	11094	108.79	0.06339
Canary	900	54/3.88	7/3.28	456.3	59.15	515.5	29.52	1264	462	1726	14484	142.04	0.06328
Catbird	954	36/4.14	1/4.14	484.6	13.46	498.1	28.98	1336	105	1441	8986	88.12	0.05930
Rail	954	45/3.70	7/2.47	483.8	33.54	517.3	29.61	1340	262	1602	11772	115.44	0.05969
Cardinal	954	54/3.38	7/3.38	484.5	62.81	547.3	30.42	1342	490	1832	15381	150.84	0.05900
Tanager	1033.5	36/4.30	1/4.30	522.8	14.52	537.3	30.10	1441	113	1554	9694	95.06	0.05496
Ortian	1033.5	45/3.85	7/2.57	523.9	36.31	560.2	30.81	1452	284	1736	12578	123.35	0.05512
Curlew	1033.5	54/3.51	7/3.51	522.5	67.73	590.2	31.59	1448	529	1977	16586	162.65	0.05527
Bluejay	1133	45/4.00	7/2.66	565.5	38.90	604.4	31.98	1567	304	1871	13540	132.78	0.05106
Finch	1133	54/3.65	19/2.19	565.0	71.57	636.6	32.85	1573	560	2133	17748	174.05	0.05136
Bunting	1192.5	45/4.14	7/2.76	605.8	41.88	647.7	33.12	1678	327	2005	14531	142.5	0.04767
Grackle	1192.5	54/3.77	19/2.27	602.8	76.89	679.7	33.97	1678	602	2280	19001	186.34	0.04814
Skylark	1272	36/4.78	1/4.78	646.0	17.95	664.0	33.46	1781	140	1921	11978	117.46	0.04448
Blittern	1272	45/4.27	7/2.85	644.4	44.66	689.1	34.17	1785	349	2134	15471	151.72	0.04481
Pheasant	1272	54/3.90	19/2.34	645.1	81.71	726.8	35.10	1796	640	2436	19789	194.06	0.04498
Dipper	1351.5	45/3.40	7/2.93	684.2	47.20	731.4	35.15	1896	369	2265	16380	160.63	0.04220
Martin	1351.5	54/4.02	19/2.41	685.4	86.67	772.1	36.17	1908	678	2586	21008	206.02	0.04234
Bobolink	1431	45/4.53	7/3.02	752.3	50.14	802.4	36.24	2084	392	2476	17398	170.62	0.03838
Plover	1431	54/4.14	19/2.48	726.9	91.78	818.7	37.24	2024	718	2742	22264	218.33	0.03992
Nuthatch	1510.5	45/4.65	7/3.10	764.2	52.83	817.0	37.20	2117	413	2530	18153	178.02	0.03779
Parrot	1510.5	54/4.25	19/2.55	766.1	97.03	863.1	38.25	2133	759	2892	23500	230.46	0.03788
Lapwing	1590	45/4.78	7/3.18	807.5	55.60	863.1	38.22	2237	434	2671	19154	187.84	0.03576
Falcon	1590	54/4.36	19/2.62	806.2	102.4	908.6	39.26	2245	801	3046	24770	242.91	0.03599
Chukar	1780	84/3.70	19/2.22	903.2	73.54	976.7	40.70	2515	576	3091	23138	226.91	0.03213
Bluebird	2156	84/4.07	19/2.44	1093	88.84	1182	44.76	3043	695	3738	27343	268.14	0.02655
Kiwi	2167	72/4.41	7/2.94	1100	47.52	1148	44.10	3062	371	3433	22635	221.97	0.02638
Kiwi	2312	76/4.43	19/2.07	1171	63.94	1235	45.75	3260	500	3760	25733	252.35	0.02478

ACSR / HS (HS:High-Strength Galvanized Steel Core)

Grouse	80	8/2.54	1/4.24	40.54	14.12	54.66	9.32	111	110	221	2359	23.13	0.7053
Petrel	101.8	12/2.34	7/2.34	51.61	30.10	81.71	11.70	143	235	378	4699	46.08	0.5595
Minorca	110.8	12/2.44	7/2.44	56.11	32.73	88.84	12.20	155	256	411	5100	50.11	0.5146
Leghorn	134.6	12/2.69	7/2.69	68.20	39.78	108.0	13.45	189	311	500	6164	60.44	0.4234
Guinea	159	12/2.92	7/2.92	80.36	46.88	127.2	14.60	223	367	590	7236	70.96	0.3593
Dotterel	176.9	12/3.08	7/3.08	89.41	52.15	141.6	15.40	248	408	656	7844	76.92	0.3230
Dorking	190.8	12/3.20	7/3.02	96.51	56.30	152.8	16.00	267	440	707	8468	83.04	0.2992
Brahma	203.2	16/2.86	19/2.48	102.8	91.78	194.6	18.12	285	721	1006	12871	126.2	0.2809
Cochin	211.3	12/3.37	7/3.37	107.0	62.44	169.4	16.85	296	488	784	9391	92.09	0.2699

Modulus of Elasticity / Coefficient of Linear Expansion of a Bare Conductor

용어 Item	소선수/지름 Number of Wires		단면적비 Ratio of Area (m)	탄성계수 Modulus of Elasticity(E) (kgf/mm ²)		선팅창계수 Coefficient of Expansion(α) $\times 10^{-6}/^{\circ}\text{C}$		단위/중량 Weight of Unit (α) $\times 10^{-3}$ kg/m·mm ²
	Al	Steel		HA I 60,58T UTA I	KTA I IA I(KA I)	HA I 60,58T UTA I	KTA I IA I(KA I)	
ACSR 60,58 TACSR UTACSR KTACSR IACSR	6	1	6.000	8400	8750	18.9	19.0	3.461
	15	4	3.750	9390	9550	17.6	17.7	3.825
	12	7	1.714	11720	11840	15.4	15.5	4.626
	26	7	6.140	8360	8530	19.0	19.0	3.480
	30	7	4.286	9080	9240	18.0	18.1	3.731
	45	7	14.46	7250	7440	20.8	20.9	3.101
	54	7	7.714	7990	8160	19.5	19.6	3.354
	84	7	12.00	7430	7620	20.5	20.6	3.170
ACSR/AW 60,58 TACSR/AW UTACSR/AW KTACSR/AW IACSR/AW	6	1	6.000	7760	7930	20.0	20.0	3.288
	15	4	3.750	8450	8610	18.9	19.0	3.569
	12	7	1.714	10060	10180	17.0	17.0	4.178
	26	7	6.140	7730	7900	20.0	20.1	3.310
	30	7	4.286	8230	8390	19.2	19.3	3.501
	45	7	14.46	6960	7150	21.5	21.5	3.022
	54	7	7.714	7470	7650	20.5	20.5	3.215
	84	7	12.00	7080	7270	21.2	21.3	3.077
ACSR/AN 60,58 TACSR/AN UTACSR/AN KTACSR/AN IACSR/AN	6	1	6.000	8400	8750	18.9	19.0	3.425
	15	4	3.750	9390	9550	17.6	17.7	3.772
	12	7	1.714	11720	11840	15.4	15.5	4.533
	26	7	6.140	8360	8530	19.0	19.0	3.445
	30	7	4.286	9080	9240	18.0	18.1	3.684
	45	7	14.46	7250	7440	20.8	20.9	3.084
	54	7	7.714	7990	8160	19.5	19.6	3.325
	84	7	12.00	7430	7620	20.5	20.6	3.151
HAL 60,58 TAL UTAL KAL KTAL IAL	3							2.732
	7							2.732
	19							2.741
	37	-	-	6300	6500	23.0	23.0	2.757
	61							2.762
	91							2.776
	127							2.781
H PH THDC	7							8.997
	19							8.997
	37		-	12000		17.0		9.041
	61							9.068

● Note: A Formula of E and α (ACSR)

$$E = \frac{mE_a + E_s}{m + 1}, \alpha = \frac{m\alpha_a E_a + \alpha_s E_s}{mE_a + E_s}$$

$$M = \frac{A_a}{A_s} \quad (\text{Ratio of Area})$$

a : Aluminium
s : Steel

$E_a = 6300(\text{kgf/mm}^2)$
 $E_s = 21000(\text{kgf/mm}^2)$
 $\alpha_a = 23.0(10^{-6}/^{\circ}\text{C})$
 $\alpha_s = 11.5(10^{-6}/^{\circ}\text{C})$

알루미늄 가교 폴리에틸렌 절연전선

Aluminium Conductor Cross-Linked Polyethylene Insulated Wire

● 용도

(특)고압 가공 전선로에 사용한다.

● USE

This wire is used for high voltage overhead transmission lines.

● 구조

- 도 체 : 전기용 경알루미늄선, 강심 알루미늄 연선, 알루미늄 피복강심 알루미늄연선
- 절 연 체 : XLPE
- 절연체색상 : 흑색

● CONSTRUCTION

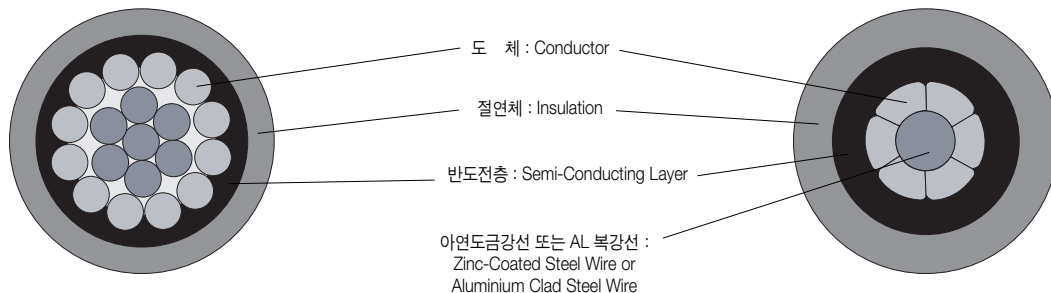
- Conductor : Hard-Drawn Aluminium Wire or Aluminium Stranded Conductors Steel Reinforced or Aluminium Stranded Conductors Aluminium Clad Steel Wire Reinforced
- Insulation : XLPE
- Colour of insulation : Black

● 종류 및 기호

종 류	기 호
고압 강심 알루미늄 절연전선	6.6KV ACSR-OC
특고압 강심 알루미늄 절연전선	22.9KV-y ACSR-OC
고압 알루미늄 피복 강심 알루미늄 절연전선	6.6KV ACSR/AW-OC
특고압 알루미늄 피복 강심 알루미늄 절연전선	22.9KV ACSR/AW-OC
트래킹억제형 수밀 알루미늄 피복강심 알루미늄 절연전선	ACSR/AW- TR/OC

● Classes & Symbols

No. of Cores	Symbol
ACSR Outdoor XLPE Insulated Wire for 6.6KV	6.6KV ACSR-OC
ACSR Outdoor XLPE Insulated Wire for 22.9KV-y	22.9KV-y ACSR-OC
ACSR/AW Outdoor XLPE Insulated Wire for 6.6KV	6.6KV ACSR/AW-OC
ACSR/AW Outdoor XLPE Insulated Wire for 22.9KV-y	22.9KV ACSR/AW-OC
ACSR/AW Outdoor Tracking Retardant Cross-linked Polyethylene Insulated Wire for 22.9KV	ACSR/AW- TR/OC



WIRE & CABLE

알루미늄 가교 폴리에틸렌 절연전선

Aluminium Conductor Cross-Linked Polyethylene Insulated Wire

강심 알루미늄 절연전선 (ACSR-OC)

전압 등급 Voltage Grade	도체 Conductor				절연체 두께 Insulation Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃	시험전압 Test Voltage	인장하중 Tensile Load at Break	중량 Approx. Weight	절연저항 Min. Insulation Resistance at 20℃	표준길이 Standard Length
	공칭단면적 Nominal Sectional Area mm²	구성 No. & Dia. OC Wire or Shape		외경 Outer Diameter mm								
		AL	ST									
6.6KV	32	6/SB	1/2.6	7.2	2.0	11.2	0.928	12	1,090	185	1,500	900
	58	6/SB	1/3.5	9.7	2.5	14.7	0.512	12	1,900	325	1,500	600
	95	6/SB	1/3.5	12.0	2.5	17.0	0.313	12	2,360	455	1,000	300
22.9KV	32	6/SB	1/2.6	7.2	3.0	13.2	0.928	25	1,090	215	2,000	900
	58	6/SB	1/3.5	9.7	3.0	15.7	0.512	25	1,900	340	1,500	600
	95	6/SB	1/3.5	12.0	3.5	19.0	0.313	25	2,360	540	1,500	600
	160	18/SB	1/3.2	15.4	4.0	23.4	0.186	25	3,080	740	1,500	600

강심 알루미늄 절연전선 (ACSR/AW-OC)

전 압 등 급 Voltage Grade	도체 Conductor				절연체 두 께 Insulation Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃	시험전압 Test Voltage	인장하중 Tensile Load at Break	중 량 Approx. Weight	절연저항 Min. Insulation Resistance at 20℃	표준길이 Standard Length
	공칭단면적 Nominal Sectional Area mm²	구 성 No. & Dia. OC Wire or Shape		외경 Outer Diameter mm								
		AL	ST									
					mm	mm	Ω /km	V/5min	kgf	kg/km	MΩ-km	m
6.6KV	32	6/SB	1/2.6	7.2	2.0	11.2	0.877	12	1,090	180	1,500	900
	58	6/SB	1/3.5	9.7	2.5	14.7	0.484	12	1,900	315	1,500	600
	95	6/SB	1/3.5	12.0	2.5	17.0	0.302	12	2,360	445	1,000	300
22.9KV	32	6/SB	1/2.6	7.2	3.0	13.2	0.877	25	1,090	210	2,000	900
	58	6/SB	1/3.5	9.7	3.0	15.7	0.484	25	1,900	330	1,500	600
	95	6/SB	1/3.5	12.0	3.5	19.0	0.302	25	2,360	530	1,500	600
	160	18/SB	1/3.2	15.4	4.0	23.4	0.183	25	3,080	730	1,500	600

* SB : Smooth Body

트래킹 억제형 수밀 알루미늄 피복강심 알루미늄 절연전선 (ACSR/AW-TR/OC)

전압 등급 Voltage Grade	공칭단면적 Nominal Sectional Area	도체 Conductor			내부 반도체층 Conductor Screen	절연체 두께 Insulation Thickness	외부 반도체층 Insulation Screen	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃	시험전압 Test Voltage	인장하중 Tensile Load at Break	중량 Approx. Weight	표준길이 Standard Length
		구성 No. & Dia. OC Wire or Shape		외경 Outer Diameter									
	mm ²	AL	ST	mm	mm	mm	mm	mm	Ω /km	V/5min	kgf	kg/km	m
22.9KV	58	6/SB	1/3.5	9.7	0.6	1.2	1.2	15.7	0.484	25	1900	360	600
	95	6/SB	1/3.5	12.0	0.6	1.4	1.5	19.0	0.302	25	2360	520	600
	160	18/SB	1/3.2	15.4	0.6	1.7	1.7	23.4	0.183	25	3080	750	600
	240	18/SB	1/4.0	18.9	0.6	1.7	1.7	27.0	0.123	25	4500	1040	600



절연전선

PVC Insulated Wire

- PVC Insulated Wire Heat-Resistant PVC Insulated Wire(450/750V IV, 300/500V HIV)
- Outdoor Weather Proof PVC Insulated Wire(600V OW)
- PVC Insulated Drop Service Wire(600V DV)
- Drop Wire for Pole Transformer(PDC, PDE)
- 0.6/1KV Tray Flame Retardant PVC Insulated Grounding Wire(0.6/1KV TFR-GV)
- Halogen Free Flame Retardant Cross Linked Poly-Olefin Insulated Wire(450/750V HFIX)
- Aluminium Conductor Aluminium-Clad Steel Reinforced PVC Insulated Wire(450/750V ACSR/AW-OW)

● 용도

정격전압 450/750V(IV), 300/500V(HIV) 이하의 고정 배선용으로 사용되며 내후성, 내구성이 양호한 절연전선이다.

● 구조

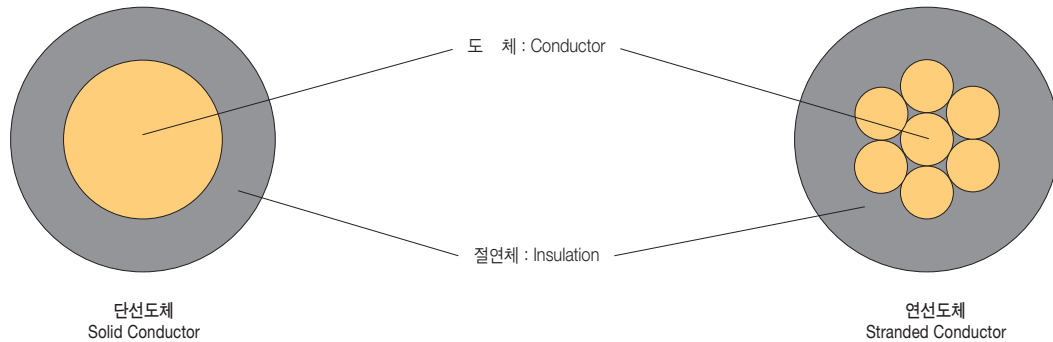
- 도체 : 전기용 연동선
(단선, 원형연선, 원형 압축 연선)
- 절연체 : 염화 비닐 수지 (PVC/C, PVC/E)
- 절연체색상 : 흑, 백, 적, 녹, 황, 청
- 도체허용온도 : IV - 70℃, HIV - 90℃

● USE

It is chiefly used for indoor distribution line under 450/750V, 300/500V grade and highly weather proofing and safe use over a long period is assured.

● CONSTRUCTION

- Conductor : Annealed Copper Wire (Solid, Concentric circular, Compact circular)
- Insulation : PVC (PVC/C, PVC/E)
- Colour of insulation : Black, White, Red, Green, Yellow, Blue
- Conductor Temperature : IV-70 ℃, HIV-90 ℃



도체 Conductor			절연체두께 Nominal Insulation Thickness	완성품 바깥지름 Max. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	절연저항 Min. Insulation Resistance at 70℃ MΩ·km	중량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire mm	바깥지름 Outer Diameter mm							
HIV 1.5	1/1.38	1.38	0.7	3.2	12.1	2,500	0.011	20	300
2.5	1/1.78	1.78	0.8	3.9	7.41	2,500	0.010	35	300
IV 1.5	7/0.53	1.59	0.7	3.3	12.1	2,500	0.010	25	300
2.5	7/0.67	2.01	0.8	4	7.41	2,500	0.009	35	300
4	1/2.25	2.25	0.8	4.4	4.61	2,500	0.0085	50	300
4	7/0.85	2.55	0.8	4.6	4.61	2,500	0.0077	55	300
6	1/2.76	2.76	0.8	5	3.08	2,500	0.007	70	300
6	7/1.04	3.12	0.8	5.2	3.08	2,500	0.0065	75	300
10	1/3.57	3.57	1.0	6.4	1.83	2,500	0.007	115	300
10	7/1.35	4.05	1.0	6.7	1.83	2,500	0.0065	120	300
16	7/1.70	5.10	1.0	7.8	1.15	2,500	0.005	170	300
25	7/2.14	6.42	1.2	9.7	0.727	2,500	0.005	270	300
35	7/2.52	7.56	1.2	10.9	0.524	2,500	0.004	370	300
50	19/1.78	8.90	1.4	12.8	0.387	2,500	0.0045	510	300
70	19/2.14	10.70	1.4	14.6	0.268	2,500	0.0035	685	300
95	19/2.52	12.60	1.6	17.1	0.193	2,500	0.0035	935	300
120	37/2.03	14.21	1.6	18.8	0.153	2,500	0.0032	1,170	300
150	37/2.28	15.96	1.8	20.9	0.124	2,500	0.0032	1,450	300
185	37/2.52	17.64	2.0	23.3	0.0991	2,500	0.0032	1,820	300
240	61/2.25	20.25	2.0	26.6	0.0754	2,500	0.0032	2,305	200
300	61/2.52	22.68	2.4	29.6	0.0601	2,500	0.003	2,925	200
400	61/2.89	26.01	2.6	33.2	0.047	2,500	0.0028	3,820	200

Outdoor Weather Proof PVC Insulated Wire(600V OW)

● 용 도

저압 가공전선로에 사용되며 전기용 경동선을 도체로 하여 PVC로 피복한 절연전선으로 중전의 면 절연전선보다 내후성 및 내구성이 우수하다.

● USE

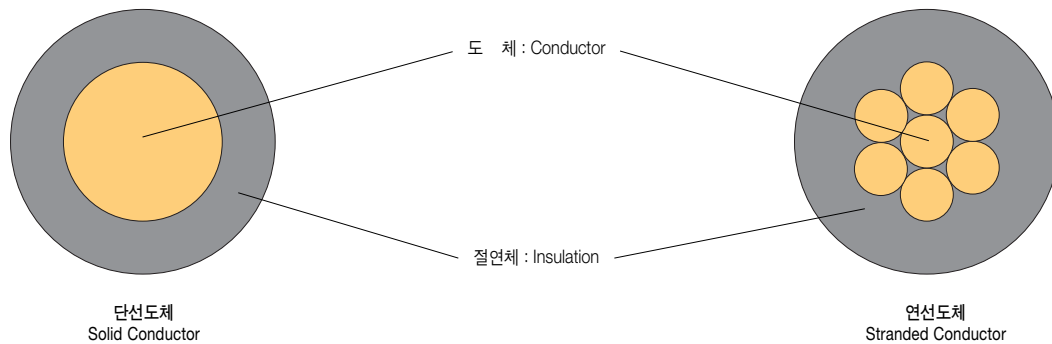
It is used for overhead low-voltage distribution line and composed of hard-drawn copper wire and PVC insulation. It is superior to conventional cotton insulated wire and highly weather proof and safe use over a long period is assured.

● 구 조

- 도 체 : 전기용 경동선
- 절 연 체 : PVC
- 절연체색상 : 흑색

● CONSTRUCTION

- Conductor : Hard-Drawn Copper Wire
- Insulation : PVC
- Colour of insulation : Black



단선도체 - Solid Conductor

도 체 Conductor		절연체두께 PVC Insulation Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage	인장하중 Tensile Load	중 량 Approx. Weight	표준길이 Standard Length
지름 Diameter mm	단면적 Sectional Area mm ²	mm	mm		V/1min	kgf	kg/km	m
2.0	3.142	0.4	2.8	5.83	3,000	134.0	32	300
2.6	5.309	0.5	3.6	3.45	3,000	223.2	54	300
3.2	8.042	0.6	4.4	2.28	3,000	333.0	81	200
4.0	12.57	1.0	6.0	1.46	3,000	499.1	135	200
5.0	19.64	1.2	7.4	0.932	3,000	759.8	210	200

연선도체 - Stranded Conductor

도 체 Conductor			절연체두께 PVC Insulation Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage	인장하중 Tensile Load	중 량 Approx. Weight	표준길이 Standard Length
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire mm	바깥지름 Outer Diameter mm	mm	mm		V/1min	kgf	kg/km	m
14	7/1.6	4.8	1.0	6.8	1.35	3,000	574	160	300
22	7/2.0	6.0	1.2	8.4	0.849	3,000	889	250	300
30	7/2.3	6.9	1.2	9.3	0.642	3,000	1,160	320	300
38	7/2.6	7.8	1.4	11.0	0.502	3,000	1,480	410	300
50	19/1.8	9.0	1.4	12.0	0.394	3,000	1,960	520	300
60	19/2.0	10.0	1.4	13.0	0.313	3,000	2,410	630	300
80	19/2.3	11.5	1.5	14.5	0.237	3,000	3,160	820	300
100	19/2.6	13.0	1.5	16.0	0.185	3,000	4,010	1,030	300

PVC Insulated Drop Service Wire(600V DV)

● 용도

주로 AC 600V 이하의 가공인입선으로 사용되며 각 심이 선명하게 착색되어 있으므로 배선시에 편리하고 피복의 내후성이 매우 우수하다.
따라서 화재또는 감전의 사고없이 오랫동안 안전하게 사용할 수 있다.

● USE

It is chiefly used for drop-in from overhead distribution line, under A.C. 600V grade, and very convenient for wiring, colour being easily identified. It is weather proof and can be used for a long period without damage due to fire, electrical shock and other accidents.

● 구조

- 도 체 : 전기용 경동선
(단, 22mm² ~ 60mm²은 전기용 연동선)
- 절 연 체 : PVC
- 절연체색상

선 심 수	색
2 심	흑, 녹 또는 흑, 청
3 심	흑, 녹, 청

● CONSTRUCTION

- Conductor : Hard-Drawn Copper Wire(But, 22mm² ~ 60mm² is Annealed Copper Wire)
- Insulation : PVC
- Colour of insulation

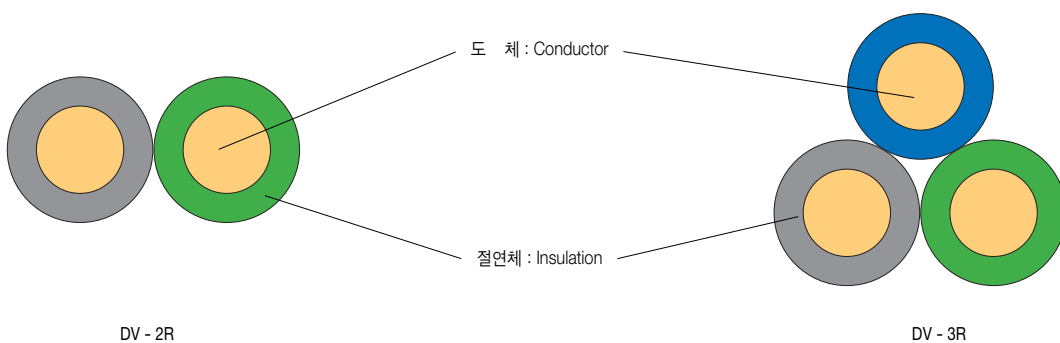
No. of Cores	Colour
2 Cores	Black, Green or Black, Blue
3 Cores	Black, Green, Blue

● 종류 및 기호

종 류	색
2 개연	DV-2R
3 개연	DV-3R

● Classes & Symbols

Class	Symbol
Duplex	DV-2R
Triplex	DV-3R



인입용 비닐 절연전선

PVC Insulated Drop Service Wire(600V DV)

2개연 - Duplex(DV-2R)

도체 Conductor			절연체 두께 Insulation Thickness	완성품 바깥지름 Approx. Overall Diameter	시험전압 Test Voltage V/5min	절연저항 Min. Insulation Resistance MΩ-km		인장하중 Tensile Load kgf	도체저항 Max. Conductor Resistance at 20℃ Ω /km	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire mm	바깥지름 Outer Diameter mm				20℃	60℃				
-	1/2.0	2.0	0.8	7.2	1,500	50	0.15	127	5.89	75	300
-	1/2.6	2.6	1.0	9.2	1,500	50	0.15	211	3.48	125	200
-	1/3.2	3.2	1.2	11.5	1,500	50	0.15	316	2.30	190	200
8	7/1.2	3.6	1.2	12.0	1,500	50	0.15	326	2.43	205	300
14	7/1.6	4.8	1.4	15.5	2,000	40	0.1	574	1.36	340	300
22	7/2.0	6.0	1.6	18.5	2,000	40	0.1	440	0.832	525	300
30	7/2.3	6.9	1.6	21.0	2,000	40	0.1	582	0.623	670	300
38	7/2.6	7.8	1.8	23.0	2,500	40	0.1	743	0.492	860	300
50	19/1.8	9.0	1.8	26.0	2,500	30	0.1	967	0.378	1,080	300
60	19/2.0	10.0	1.8	28.0	2,500	30	0.07	1,190	0.306	1,310	300

3개연 - Triplex(DV-3R)

도체 Conductor			절연체 두께 Insulation Thickness	완성품 바깥지름 Approx. Overall Diameter	시험전압 Test Voltage V/5min	절연저항 Min. Insulation Resistance MΩ-km		인장하중 Tensile Load kgf	도체저항 Max. Conductor Resistance at 20℃ Ω /km	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire mm	바깥지름 Outer Diameter mm				20℃	60℃				
-	1/2.0	2.0	0.8	7.8	1,500	50	0.15	127	5.89	115	300
-	1/2.6	2.6	1.0	9.9	1,500	50	0.15	211	3.48	190	200
-	1/3.2	3.2	1.2	12.5	1,500	50	0.15	316	2.30	285	200
8	7/1.2	3.6	1.2	13.0	1,500	50	0.15	326	2.43	310	300
14	7/1.6	4.8	1.4	16.5	2,000	40	0.1	574	1.36	510	300
22	7/2.0	6.0	1.6	20	2,000	40	0.1	440	0.832	785	300
30	7/2.3	6.9	1.6	22	2,000	40	0.1	582	0.623	1,000	300
38	7/2.6	7.8	1.8	25	2,500	40	0.1	743	0.492	1,290	300
50	19/1.8	9.0	1.8	28	2,500	30	0.1	967	0.378	1,620	300
60	19/2.0	10.0	1.8	30	2,500	30	0.07	1,190	0.306	1,960	300

Drop Wire for Pole Transformer(PDC, PDE)

● 용도

고압가공선로에서 주상변압기의 1차 측에 연결하는데 사용되는 전선이다.

● USE

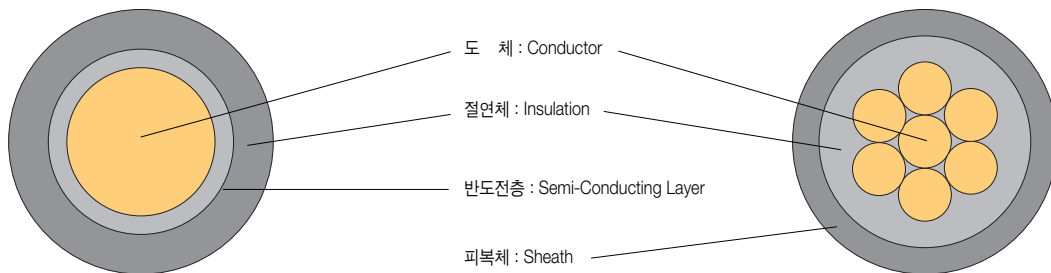
This wire is used for drop-in from high voltage overhead line to the primary of the pole transformer.

● 구조

- 도 체 : 전기용 연동선 또는 연동선
- 절 연 체 : XLPE 또는 PE
- 절연체색상 : 흑색
- 피 복 체 : PVC(PDE에 한함)

● CONSTRUCTION

- Conductor : Hard-Drawn Copper Wire or Annealed Copper Wire
- Insulation : XLPE or PE
- Core Identification : Black
- Sheath : PVC(PDE Only)



도체 Conductor			절연체 두께 Insulation Thickness	쉬이즈 두께 Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage KV/1min	절연저항 Min. Insulation Resistance at 20℃ MΩ-km	표준길이 Standard Length m	기호 Symbol
공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire mm	바깥지름 Outer Diameter mm								
-	2.0	2.0	3.0	-	8.0	5.65	12	4,000	300	PDC
-	2.6	2.6	3.0	-	8.6	3.35	12	4,000	300	PDC
-	3.2	3.2	3.0	-	9.2	2.21	12	4,000	300	PDC
-	5.0	5.0	4.0	-	13.0	0.905	25	4,000	300	PDC
5.5	7/1.0	3.0	3.0	-	9.0	3.33	12	4,000	300	PDC
8	7/1.2	3.6	3.0	-	9.6	2.31	12	4,000	300	PDC
14	7/1.6	4.8	3.0	-	11.0	1.30	12	4,000	300	PDC
22	7/2.0	6.0	3.0	-	12.0	0.824	12	4,000	300	PDC
30	7/2.3	6.9	3.0	-	13.0	0.623	12	4,000	300	PDC
5.5	7/1.0	3.0	4.0	1.8	14.6	3.33	12	4,000	300	PDE

0.6/1KV TRAY용 난연 접지 비닐절연 전선

KS C IEC 60502-1, 대용표준

Tray FR-PVC Insulated Grounding Cable(0.6/1KV TFR-GV)

● 용도

전기기기의 접지용으로 사용되며, 기존 PVC 절연 전선보다 난연성이 매우 우수하다.

● USE

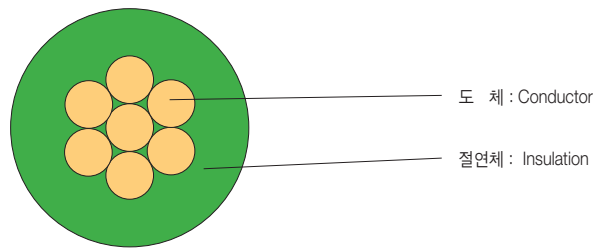
This wire is used for grounding of electric apparatus, excellent flame retardant.

● 구조

- 도체 : 전기용 연동선 (원형, 원형 압축 연선)
- 절연체 : 난연성 염화 비닐 수지
- 선심식별 : 녹색

● CONSTRUCTION

- Conductor : Annealed Copper Wire (Concentric Circular, Compact circular)
- Insulation : Flame retardant PVC
- Core Identification : Green



0.6/1KV TFR-GV

도체 Conductor			절연체두께 Nominal Insulation Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm						
1.5	7/0.53	1.59	2.2	6.5	12.1	3,500	65	300
2.5	7/0.67	2.01	2.2	7.0	7.41	3,500	80	300
4	7/0.85	2.55	2.4	8.0	4.61	3,500	105	300
6	7/1.04	3.12	2.4	8.5	3.08	3,500	135	300
10	7/1.35	4.05	2.4	9.5	1.83	3,500	185	300
16	C.C	4.7	2.4	10.0	1.15	3,500	240	300
25	C.C	5.9	2.6	12.0	0.727	3,500	350	300
35	C.C	6.9	2.6	13.0	0.524	3,500	440	300
50	C.C	8.1	2.8	14.5	0.387	3,500	615	300
70	C.C	9.8	2.8	16.0	0.268	3,500	800	300
95	C.C	11.4	3.1	18.5	0.193	3,500	1,080	300
120	C.C	12.9	3.1	20.0	0.153	3,500	1,330	300
150	C.C	14.4	3.4	22.0	0.124	3,500	1,640	300
185	C.C	15.9	3.7	25.0	0.0991	3,500	2,040	200
240	C.C	18.3	4.0	28.0	0.0754	3,500	2,595	200
300	C.C	20.5	4.3	30.0	0.0601	3,500	3,235	200
400	C.C	23.2	4.6	34.0	0.0470	3,500	4,200	150
500	C.C	26.4	4.9	38.0	0.0366	3,500	5,060	150
630	C.C	30.2	5.0	42.0	0.0283	3,500	6,740	150

주 : C.C ; 원형 압축(Compact Circular)

WIRE & CABLE

저독성 가교폴리올레핀 절연전선

Halogen Free Flame Retardant Cross Linked Poly-Olefin Insulated Wire(450/750V HFIX)

● 용도

정격전압 450/750V 이하의 고정 배선용으로 사용되며 내후성, 내구성이 양호한 절연전선이다.

● USE

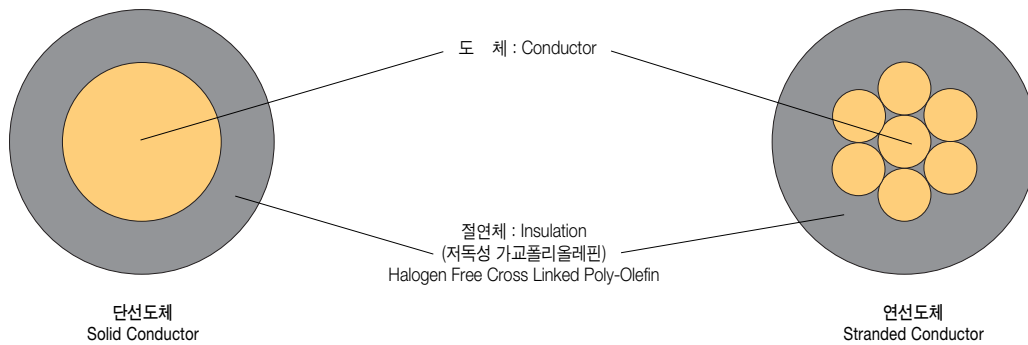
It is chiefly used for indoor distribution line under 450/750V grade and highly weather proofing and safe use over a long period is assured.

● 구조

- 도 체 : 전기용 연동선
- 절 연 체 : 저독성 가교폴리올레핀
- 절연체색상 : 흑, 백, 적, 녹, 황, 청
- 도체허용온도 : 90℃

● CONSTRUCTION

- Conductor : Annealed Copper Wire
- Insulation : Hologen Free Cross Linked Poly-Olefin
- Colour of insulation : Black, White, Red, Green, Yellow, Blue
- Conductor Temperature : 90 ℃



단선 - Solid Core / 연선 - Stranded Core

도체 Conductor		절연체두께 Nominal Insulation Thickness mm	완성품외경(약) Approx. Overall Diameter		도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage kV	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm		하한 값 Lower Limit mm	상한 값 Upper Limit mm				
1.5	1/1.38	0.7	2.6	3.2	12.1	2.5	20	300(다발)
2.5	1/1.78	0.8	3.2	3.9	7.41	2.5	40	300(다발)
4	1/2.25	0.8	3.6	4.4	4.61	2.5	50	300(다발)
6	1/2.76	0.8	4.1	5.0	3.08	2.5	70	300(다발)
10	1/3.57	1.0	5.3	6.4	1.83	2.5	120	300(다발)
1.5	7/0.53	0.7	2.7	3.3	12.1	2.5	20	300(다발)
2.5	7/0.67	0.8	3.3	4.0	7.41	2.5	40	300(다발)
4	7/0.85	0.8	3.8	4.6	4.61	2.5	50	300(다발)
6	7/1.04	0.8	4.3	5.2	3.08	2.5	70	300(다발)
10	7/1.35	1.0	5.6	6.7	1.83	2.5	120	300(다발)
16	7/1.7	1.0	6.4	7.8	1.15	2.5	170	300(다발)
25	7/2.14	1.2	8.1	9.7	0.727	2.5	260	300(다발)
35	7/2.52	1.2	9.0	10.9	0.524	2.5	350	300(다발)
50	19/1.78	1.4	10.6	12.8	0.387	2.5	480	300
70	19/2.14	1.4	12.1	14.6	0.268	2.5	670	300
95	19/2.52	1.6	14.1	17.1	0.193	2.5	920	300
120	37/2.03	1.6	15.6	18.8	0.153	2.5	1160	300
150	37/2.25	1.8	17.3	20.9	0.124	2.5	1430	300
185	37/2.52	2.0	19.3	23.3	0.0991	2.5	1780	300
240	61/2.25	2.2	22.0	26.6	0.0754	2.5	2320	300
300	61/2.52	2.4	24.5	29.6	0.0601	2.5	2930	300
400	61/2.85	2.6	27.5	33.2	0.0470	2.5	3730	300

주 : 개산무개는 약간의 차이가 있을 수 있습니다.

알루미늄 피복강심 알루미늄 도체 비닐 절연전선

Aluminium Conductor Aluminium-Clad Steel Reinforced PVC Insulated Wire(450/750V ACSR/AW-OW)

● 용도

가공저압전선로에 사용하는 단심의 옥외용 전선으로 알루미늄피복강선에 경알루미늄선을 연합한 후 염화비닐수지로 절연한 제품이다.

● USE

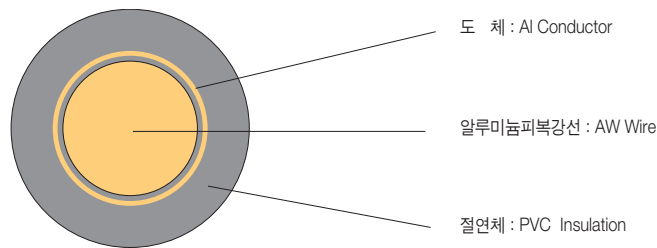
It is used for overhead low-voltage distribution line composed of hard-drawn aluminium wire and PVC insulation.

● 구조

- 도 체 : 알루미늄피복강심 알루미늄
- 절 연 체 : 염화비닐수지(PVC)
- 절연체색상 : 흑색

● CONSTRUCTION

- Conductor : Hard-Drawn Aluminium Wire
- Insulation : PVC
- Colour of insulation : Black



기호 Symbol	공칭단면적 Nominal Sectional Area mm ²	도체 Conductor			절연체두께 Nominal Insulation Thickness mm	바깥지름 Approx. Overall Diameter mm
		소선수/형상 Aluminium Number & Shape Al	소선수/외경 Number & Diameter St mm	바깥지름 Overall Diameter mm		
450/750V ACSR/AW-OW	35	6/SB	1/2.6	7.2	1.2	9.8

시험전압 Test Voltage kV	최대도체저항 Max, Conductor Resistance at 20℃ Ω /km	도체인장하중 Conductor Tensile Load kgf	계산중량 Calculated length kg/km	표준길이 Standard Length m
3	0.868	1,090	175	900



전력용 및 제어용 케이블

power & Control Cable

- 0.6/1KV PVC Insulated PVC Sheathed Cable(VV)
- 0.6/1KV Control Cable(CVV, CVV-S, CCV, CCE, CCV-S, CCE-S)
- 22.9KV XLPE Insulated PVC Sheathed Concentric Neutral Power Cable
- (22.9KV CNCV-W, 22.9KV FR-CNCO-W, 22.9KV FR-CNCO-W/AL, 22.9KV TR-CNCV-W)
- 22.9KV XLPE Insulated Polyethylene Sheathed Concentric Neutral Power Cable
- (22.9KV TR-CNCE-W, 22.9KV TR-CNCE-W / AL)

0.6/1KV 비닐절연 비닐시스 케이블

KS C IEC 60502-1

0.6/1KV PVC Insulated PVC Sheathed Cable(VV)

● 용도

장기간 사용하여도 내마모성 및 내후성이 우수하여 정격전압 0.6/1KV 이하의 저압회로에 널리 사용된다.

● USE

This cable has superior weather proof and anti-friction property, permitting of use for a long period of time and widely used for a low tension distribution wire under 0.6/1KV grade.

● 구조

- 도 체 : 전기용 연동선
(원형연선, 원형 압축 연선)
- 절 연 체 : 염화 비닐 수지
- 선 심 구 분 : 착색

선 심 수	색
2 심	흑, 백
3 심	흑, 백, 적
4 심	흑, 백, 적, 녹

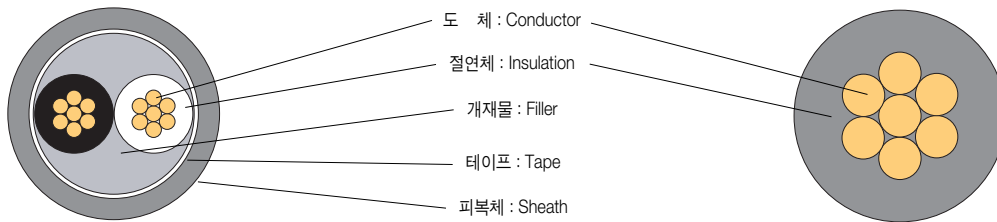
- 피 복 체 : 염화 비닐 수지

● CONSTRUCTION

- Conductor : Annealed Copper Wire
(Concentric circular, Compact circular)
- Insulation : PVC
- Core Identification : Colouring Method

No. of Cores	Colour
2 Cores	Black, White
3 Cores	Black, White, Red
4 Cores	Black, White, Red, Green

- Sheath : PVC



단심 - Single Core

도체 Conductor			절연체 두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.8	1.4	6.5	12.1	3,500	65	300
2.5	7/0.67	2.01	0.8	1.4	7.0	7.41	3,500	75	300
4	7/0.85	2.55	0.8	1.4	8.0	4.61	3,500	105	300
6	7/1.04	3.12	1.0	1.4	8.5	3.08	3,500	130	300
10	7/1.35	4.05	1.0	1.4	9.5	1.83	3,500	180	300
16	C.C	4.7	1.0	1.4	10.0	1.15	3,500	235	300
25	C.C	5.9	1.2	1.4	12.0	0.727	3,500	345	300
35	C.C	6.9	1.2	1.4	13.0	0.524	3,500	435	300
50	C.C	8.1	1.4	1.4	14.5	0.387	3,500	605	300
70	C.C	9.8	1.4	1.4	16.0	0.268	3,500	790	300
95	C.C	11.4	1.6	1.5	18.5	0.193	3,500	1,065	300
120	C.C	12.9	1.6	1.5	20.0	0.153	3,500	1,310	300
150	C.C	14.4	1.8	1.6	22.0	0.124	3,500	1,620	300
185	C.C	15.9	2.0	1.7	25.0	0.0991	3,500	2,015	200
240	C.C	18.3	2.2	1.8	28.0	0.0754	3,500	2,560	200
300	C.C	20.5	2.4	1.9	30.0	0.0601	3,500	3,200	200
400	C.C	23.2	2.6	2.0	34.0	0.0470	3,500	4,150	200
500	C.C	26.4	2.8	2.1	38.0	0.0366	3,500	5,005	200
630	C.C	30.2	2.8	2.2	42.0	0.0283	3,500	6,650	150

WIRE & CABLE

0.6/1KV 비닐절연 비닐시스 케이블

0.6/1KV PVC Insulated PVC Sheathed Cable(VV)

2 심 - Two Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.8	1.8	11.5	12.1	3,500	140	300
2.5	7/0.67	2.01	0.8	1.8	12.0	7.41	3,500	170	300
4	7/0.85	2.55	1.0	1.8	14.0	4.61	3,500	235	300
6	7/1.04	3.12	1.0	1.8	15.5	3.08	3,500	290	300
10	7/1.35	4.05	1.0	1.8	17.0	1.83	3,500	400	300
16	C.C	4.7	1.0	1.8	18.5	1.15	3,500	530	300
25	C.C	5.9	1.2	1.8	22	0.727	3,500	775	300
35	C.C	6.9	1.2	1.8	24	0.524	3,500	1,000	300
50	C.C	8.1	1.4	1.8	27	0.387	3,500	1,360	300
70	C.C	9.8	1.4	1.9	31	0.268	3,500	1,775	300
95	C.C	11.4	1.6	2.0	35	0.193	3,500	2,390	300
120	C.C	12.9	1.6	2.1	38	0.153	3,500	2,940	300
150	C.C	14.4	1.8	2.2	43	0.124	3,500	3,630	300
185	C.C	15.9	2.0	2.3	47	0.0991	3,500	4,500	200
240	C.C	18.3	2.2	2.5	53	0.0754	3,500	5,705	200
300	C.C	20.5	2.4	2.7	58	0.0601	3,500	7,140	200

3 심 - Three Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.8	1.8	12.0	12.1	3,500	165	300
2.5	7/0.67	2.01	0.8	1.8	13.0	7.41	3,500	210	300
4	7/0.85	2.55	1.0	1.8	15.0	4.61	3,500	295	300
6	7/1.04	3.12	1.0	1.8	16.0	3.08	3,500	370	300
10	7/1.35	4.05	1.0	1.8	18.0	1.83	3,500	525	300
16	C.C	4.7	1.0	1.8	19.0	1.15	3,500	705	300
25	C.C	5.9	1.2	1.8	23	0.727	3,500	1,045	300
35	C.C	6.9	1.2	1.8	26	0.524	3,500	1,360	300
50	C.C	8.1	1.4	1.8	29	0.387	3,500	1,850	300
70	C.C	9.8	1.4	1.9	33	0.268	3,500	2,455	300
95	C.C	11.4	1.6	2.1	38	0.193	3,500	3,325	300
120	C.C	12.9	1.6	2.2	41	0.153	3,500	4,115	300
150	C.C	14.4	1.8	2.3	46	0.124	3,500	5,085	300
185	C.C	15.9	2.0	2.5	50	0.0991	3,500	6,345	200
240	C.C	18.3	2.2	2.7	57	0.0754	3,500	8,065	200
300	C.C	20.5	2.4	2.8	63	0.0601	3,500	10,065	200

0.6/1KV 비닐절연 비닐시스 케이블

0.6/1KV PVC Insulated PVC Sheathed Cable(VV)

4 심 - Four Core

도체 Conductor			절연체두께	피복두께	완성품	도체저항	시험전압	중량	표준길이
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	바깥지름 Approx. Overall Diameter mm	Max, Conductor Resistance at 20℃ Ω /km	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
1.5	7/0.53	1.59	0.8	1.8	13.0	12.1	3,500	200	300
2.5	7/0.67	2.01	0.8	1.8	14.0	7.41	3,500	250	300
4	7/0.85	2.55	1.0	1.8	16.0	4.61	3,500	360	300
6	7/1.04	3.12	1.0	1.8	17.5	3.08	3,500	460	300
10	7/1.35	4.05	1.0	1.8	20	1.83	3,500	655	300
16	C.C	4.7	1.0	1.8	22	1.15	3,500	895	300
25	C.C	5.9	1.2	1.8	26	0.727	3,500	1,335	300
35	C.C	6.9	1.2	1.8	28	0.524	3,500	1,755	300
50	C.C	8.1	1.4	1.9	32	0.387	3,500	2,425	300
70	C.C	9.8	1.4	2.0	36	0.268	3,500	3,200	300
95	C.C	11.4	1.6	2.2	42	0.193	3,500	4,355	300
120	C.C	12.9	1.6	2.3	46	0.153	3,500	5,380	300
150	C.C	14.4	1.8	2.5	51	0.124	3,500	6,665	300
185	C.C	15.9	2.0	2.6	56	0.0991	3,500	8,275	200
240	C.C	18.3	2.2	2.9	63	0.0754	3,500	10,595	200
300	C.C	20.5	2.4	3.1	70	0.0601	3,500	13,260	200

주 : C.C ; 원형 압축(Compact Circular)

WIRE & CABLE

0.6/1KV 제어용 케이블

0.6/1KV Control Cable

● 용도

발전소, 변전소 등의 0.6/1KV 이하의 원격 제어용 및 300V 이하의 기계적 조정장비 연결용으로 적합한 케이블로서 특히, 종전의 연피 고무케이블에 비해서 매우 가벼우며 가요성, 난연성, 내마모성, 내유성 등이 우수하며 심선 식별이 선명한 케이블이다.

● 구조

- 도 체 : 전기용 연동선 (단선, 원형 압축 연선, 집합선)
- 절 연 체 : PVC, XLPE
- 선 심 구 분 : 착색 또는 색 테이프

선 심 수	색
2 심	흑, 백
3 심	흑, 백, 적
4 심	흑, 백, 적, 녹
5 심	흑, 백, 적, 녹, 황

- 외 장 : 철선
- 피 복 체 : 염화 비닐 수지, 폴리에틸렌
- 6 심 이 상 : Numbering

● 종류 및 기호

종 류	기 호
0.6/1KV 비닐절연 비닐피복 제어용 케이블 - 동테이프 차폐 케이블	0.6/1KV CW 0.6/1KV CW-S
0.6/1KV XLPE 절연 비닐피복 제어용 케이블 - 동테이프 차폐 케이블	0.6/1KV CCV 0.6/1KV CCV-S
0.6/1KV XLPE 절연 PE 피복 제어용 케이블 - 동테이프 차폐 케이블	0.6/1KV CCE 0.6/1KV CCE-S
0.6/1KV PVC or XLPE 비닐절연전선 비닐피복 철선외장 제어용케이블	0.6/1KV CWWAV CCWWAV

● USE

This cable is designed for use in remote and substation. It is lighter and more flexible control system under 0.6/1KV or 300V in power plant than conventional rubber insulated lead sheathed control cable, also excellent in fireproof and antifriiction quality.

● CONSTRUCTION

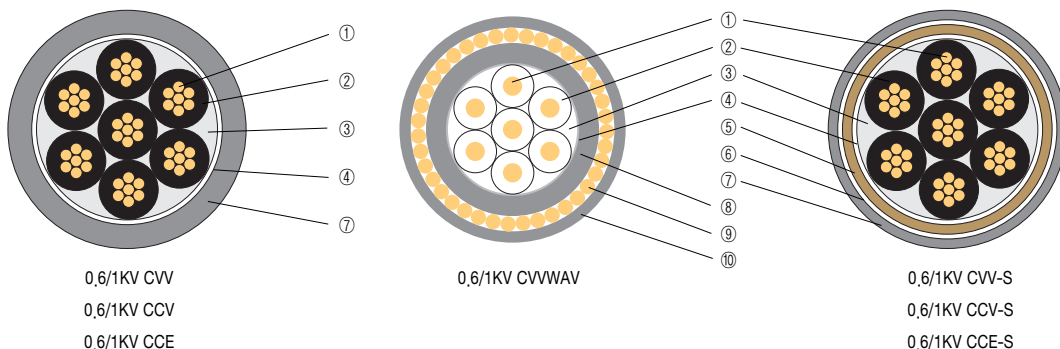
- Conductor : Annealed Copper Wire (Solid, Concentric circular, Bunch Stranded)
- Insulation : PVC, XLPE
- Core Identification : Colouring Method or Color Tape

No. of Cores	Colour
2 Cores	Black, White
3 Cores	Black, White, Red
4 Cores	Black, White, Red, Green
5 Cores	Black, White, Red, Green, Yellow

- Armour : Steel Wire
- Sheath : PVC, PE
- Above 6 Core : Numbering

● Classes & Symbols

No. of Cores	Symbol
0.6/1KV PVC Insulated PVC Sheathed Control Cable - Copper Tape Shield	0.6/1KV CW 0.6/1KV CW-S
0.6/1KV XLPE Insulated PVC Sheathed Control Cable - Copper Tape Shield	0.6/1KV CCV 0.6/1KV CCV-S
0.6/1KV XLPE Insulated PE Sheathed Control Cable - Copper Tape Shield	0.6/1KV CCE 0.6/1KV CCE-S
0.6/1KV PVC or XLPE Insulated Steel Wire Armoured PVC Sheathed Control Cable	0.6/1KV CWWAV CCWWAV



- ① 도 체 : Conductor ② 절연 : Insulation ③ 개재물 : Filler ④ 바인더 테이프 : Binder Tape ⑤ 차폐층 : Shield (Copper Tape)
⑥ 바인더 테이프 : Binder Tape ⑦ 피복 : Sheath ⑧ 내부피복 : Inner Covering ⑨ 외장 : Armour ⑩ 외부피복 : Oversheath

0.6/1KV 제어용 케이블

KS C IEC 60502-1

0.6/1KV Control Cable

CW

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃	시험전압 Test Voltage	중량 Approx. Weight	표준길이 Standard Length
	공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
2	1.5	7/0.53	1.59	0.8	1.8	11	12.1	3,500	140	300
	2.5	7/0.67	2.01	0.8	1.8	12	7.41	3,500	170	300
	4	7/0.85	2.55	1.0	1.8	14	4.61	3,500	235	300
	6	7/1.04	3.12	1.0	1.8	15	3.08	3,500	290	300
	10	7/1.35	4.05	1.0	1.8	17	1.83	3,500	400	300
3	1.5	7/0.53	1.59	0.8	1.8	11.5	12.1	3,500	165	300
	2.5	7/0.67	2.01	0.8	1.8	12.5	7.41	3,500	210	300
	4	7/0.85	2.55	1.0	1.8	14.5	4.61	3,500	295	300
	6	7/1.04	3.12	1.0	1.8	16	3.08	3,500	370	300
	10	7/1.35	4.05	1.0	1.8	18	1.83	3,500	525	300
4	1.5	7/0.53	1.59	0.8	1.8	12.5	12.1	3,500	200	300
	2.5	7/0.67	2.01	0.8	1.8	13.5	7.41	3,500	250	300
	4	7/0.85	2.55	1.0	1.8	16	4.61	3,500	360	300
	6	7/1.04	3.12	1.0	1.8	17.5	3.08	3,500	455	300
	10	7/1.35	4.05	1.0	1.8	19.5	1.83	3,500	655	300
5	1.5	7/0.53	1.59	0.8	1.8	13.5	12.1	3,500	235	300
	2.5	7/0.67	2.01	0.8	1.8	14.5	7.41	3,500	300	300
	4	7/0.85	2.55	1.0	1.8	17	4.61	3,500	425	300
	6	7/1.04	3.12	1.0	1.8	19	3.08	3,500	555	300
	10	7/1.35	4.05	1.0	1.8	21.5	1.83	3,500	800	300
6	1.5	7/0.53	1.59	0.8	1.8	14.5	12.1	3,500	270	300
	2.5	7/0.67	2.01	0.8	1.8	15.5	7.41	3,500	345	300
	4	7/0.85	2.55	1.0	1.8	18.5	4.61	3,500	500	300
	6	7/1.04	3.12	1.0	1.8	20.5	3.08	3,500	655	300
	10	7/1.35	4.05	1.0	1.8	23	1.83	3,500	940	300
7	1.5	7/0.53	1.59	0.8	1.8	14.5	12.1	3,500	290	300
	2.5	7/0.67	2.01	0.8	1.8	15.5	7.41	3,500	370	300
	4	7/0.85	2.55	1.0	1.8	18.5	4.61	3,500	540	300
	6	7/1.04	3.12	1.0	1.8	20.5	3.08	3,500	715	300
	10	7/1.35	4.05	1.0	1.8	23	1.83	3,500	1,035	300
8	1.5	7/0.53	1.59	0.8	1.8	15.5	12.1	3,500	315	300
	2.5	7/0.67	2.01	0.8	1.8	17	7.41	3,500	425	300
	4	7/0.85	2.55	1.0	1.8	20	4.61	3,500	620	300
	6	7/1.04	3.12	1.0	1.8	22	3.08	3,500	805	300
	10	7/1.35	4.05	1.0	1.8	25	1.83	3,500	1,190	300
10	1.5	7/0.53	1.59	0.8	1.8	17.5	12.1	3,500	405	300
	2.5	7/0.67	2.01	0.8	1.8	19.5	7.41	3,500	525	300
	4	7/0.85	2.55	1.0	1.8	23.5	4.61	3,500	785	300
	6	7/1.04	3.12	1.0	1.8	25.5	3.08	3,500	1,025	300
	10	7/1.35	4.05	1.0	1.8	29.5	1.83	3,500	1,510	300
12	1.5	7/0.53	1.59	0.8	1.8	18	12.1	3,500	455	300
	2.5	7/0.67	2.01	0.8	1.8	20	7.41	3,500	600	300
	4	7/0.85	2.55	1.0	1.8	24	4.61	3,500	885	300
	6	7/1.04	3.12	1.0	1.8	26.5	3.08	3,500	1,185	300
	10	7/1.35	4.05	1.0	1.8	30.5	1.83	3,500	1,740	300
15	1.5	7/0.53	1.59	0.8	1.8	19.5	12.1	3,500	530	300
	2.5	7/0.67	2.01	0.8	1.8	21.5	7.41	3,500	700	300
	4	7/0.85	2.55	1.0	1.8	26	4.61	3,500	1,070	300
	6	7/1.04	3.12	1.0	1.8	28.5	3.08	3,500	1,420	300
20	1.5	7/0.53	1.59	0.8	1.8	21.5	12.1	3,500	670	300
	2.5	7/0.67	2.01	0.8	1.8	24	7.41	3,500	895	300
	4	7/0.85	2.55	1.0	1.8	29	4.61	3,500	1,375	300
	6	7/1.04	3.12	1.0	1.8	32	3.08	3,500	1,835	300
25	1.5	7/0.53	1.59	0.8	1.8	24	12.1	3,500	805	300
	2.5	7/0.67	2.01	0.8	1.8	27	7.41	3,500	1,110	300
	4	7/0.85	2.55	1.0	1.9	33	4.61	3,500	1,700	300
30	1.5	7/0.53	1.59	0.8	1.8	25.5	12.1	3,500	935	300
	2.5	7/0.67	2.01	0.8	1.8	28.5	7.41	3,500	1,295	300
	4	7/0.85	2.55	1.0	1.9	35	4.61	3,500	1,980	300
40	1.5	7/0.53	1.59	0.8	1.8	28.5	12.1	3,500	1,185	300
	2.5	7/0.67	2.01	0.8	1.9	32	7.41	3,500	1,635	300
50	1.5	7/0.53	1.59	0.8	1.9	31.5	12.1	3,500	1,470	300
	2.5	7/0.67	2.01	0.8	2.0	35.5	7.41	3,500	2,035	300

0.6/1KV Control Cable

CVW-S

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중량 Approx. Weight kg/km	표준길이 Standard Length m
	공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
2	1.5	7/0.53	1.59	0.8	1.8	11.5	12.1	3,500	170	300
	2.5	7/0.67	2.01	0.8	1.8	12.5	7.41	3,500	205	300
	4	7/0.85	2.55	1.0	1.8	14.5	4.61	3,500	275	300
	6	7/1.04	3.12	1.0	1.8	15.5	3.08	3,500	345	300
	10	7/1.35	4.05	1.0	1.8	17.5	1.83	3,500	460	300
3	1.5	7/0.53	1.59	0.8	1.8	12	12.1	3,500	200	300
	2.5	7/0.67	2.01	0.8	1.8	13	7.41	3,500	245	300
	4	7/0.85	2.55	1.0	1.8	15.5	4.61	3,500	345	300
	6	7/1.04	3.12	1.0	1.8	16.5	3.08	3,500	425	300
	10	7/1.35	4.05	1.0	1.8	18.5	1.83	3,500	590	300
4	1.5	7/0.53	1.59	0.8	1.8	13	12.1	3,500	235	300
	2.5	7/0.67	2.01	0.8	1.8	14	7.41	3,500	290	300
	4	7/0.85	2.55	1.0	1.8	16.5	4.61	3,500	415	300
	6	7/1.04	3.12	1.0	1.8	18	3.08	3,500	520	300
	10	7/1.35	4.05	1.0	1.8	20	1.83	3,500	725	300
5	1.5	7/0.53	1.59	0.8	1.8	14	12.1	3,500	275	300
	2.5	7/0.67	2.01	0.8	1.8	15.51	7.41	3,500	345	300
	4	7/0.85	2.55	1.0	1.8	8	4.61	3,500	485	300
	6	7/1.04	3.12	1.0	1.8	19.5	3.08	3,500	620	300
	10	7/1.35	4.05	1.0	1.8	22	1.83	3,500	880	300
6	1.5	7/0.53	1.59	0.8	1.8	15	12.1	3,500	315	300
	2.5	7/0.67	2.01	0.8	1.8	16.5	7.41	3,500	400	300
	4	7/0.85	2.55	1.0	1.8	19	4.61	3,500	565	300
	6	7/1.04	3.12	1.0	1.8	21	3.08	3,500	730	300
	10	7/1.35	4.05	1.0	1.8	24	1.83	3,500	1,035	300
7	1.5	7/0.53	1.59	0.8	1.8	15	12.1	3,500	330	300
	2.5	7/0.67	2.01	0.8	1.8	16.5	7.41	3,500	425	300
	4	7/0.85	2.55	1.0	1.8	19	4.61	3,500	610	300
	6	7/1.04	3.12	1.0	1.8	21	3.08	3,500	790	300
	10	7/1.35	4.05	1.0	1.8	24	1.83	3,500	1,135	300
8	1.5	7/0.53	1.59	0.8	1.8	16	12.1	3,500	370	300
	2.5	7/0.67	2.01	0.8	1.8	17.5	7.41	3,500	485	300
	4	7/0.85	2.55	1.0	1.8	20.5	4.61	3,500	690	300
	6	7/1.04	3.12	1.0	1.8	22.5	3.08	3,500	900	300
	10	7/1.35	4.05	1.0	1.8	25.5	1.83	3,500	1,295	300
10	1.5	7/0.53	1.59	0.8	1.8	18.5	12.1	3,500	470	300
	2.5	7/0.67	2.01	0.8	1.8	20	7.41	3,500	600	300
	4	7/0.85	2.55	1.0	1.8	24	4.61	3,500	885	300
	6	7/1.04	3.12	1.0	1.8	26.5	3.08	3,500	1,135	300
	10	7/1.35	4.05	1.0	1.8	30	1.83	3,500	1,660	300
12	1.5	7/0.53	1.59	0.8	1.8	19	12.1	3,500	520	300
	2.5	7/0.67	2.01	0.8	1.8	20.5	7.41	3,500	670	300
	4	7/0.85	2.55	1.0	1.8	25	4.61	3,500	985	300
	6	7/1.04	3.12	1.0	1.8	27	3.08	3,500	1,310	300
	10	7/1.35	4.05	1.0	1.8	31.5	1.83	3,500	1,950	300
15	1.5	7/0.53	1.59	0.8	1.8	20.5	12.1	3,500	600	300
	2.5	7/0.67	2.01	0.8	1.8	22	7.41	3,500	780	300
	4	7/0.85	2.55	1.0	1.8	26.5	4.61	3,500	1,195	300
	6	7/1.04	3.12	1.0	1.8	29.5	3.08	3,500	1,560	300
20	1.5	7/0.53	1.59	0.8	1.8	22.5	12.1	3,500	760	300
	2.5	7/0.67	2.01	0.8	1.8	24.5	7.41	3,500	995	300
	4	7/0.85	2.55	1.0	1.8	29.5	4.61	3,500	1,515	300
	6	7/1.04	3.12	1.0	1.8	33	3.08	3,500	2,035	300
25	1.5	7/0.53	1.59	0.8	1.8	25	12.1	3,500	910	300
	2.5	7/0.67	2.01	0.8	1.8	27.5	7.41	3,500	1,240	300
	4	7/0.85	2.55	1.0	1.9	34	4.61	3,500	1,900	300
30	1.5	7/0.53	1.59	0.8	1.8	26.5	12.1	3,500	1,060	300
	2.5	7/0.67	2.01	0.8	1.8	29	7.41	3,500	1,430	300
	4	7/0.85	2.55	1.0	1.9	36	4.61	3,500	2,200	300
40	1.5	7/0.53	1.59	0.8	1.8	29.5	12.1	3,500	1,320	300
	2.5	7/0.67	2.01	0.8	1.9	33	7.41	3,500	1,835	300
50	1.5	7/0.53	1.59	0.8	1.9	32.5	12.1	3,500	1,670	300
	2.5	7/0.67	2.01	0.8	2.0	36.5	7.41	3,500	2,275	300

0.6/1KV 제어용 케이블

KS C IEC 60502-1

0.6/1KV Control Cable

CCV, CCE

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km		표준길이 Standard Length m
	공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm						PVC Sheathed	PE Sheathed	
2	1.5	7/0.53	1.59	0.7	1.8	10.5	12.1	3,500	130	105	300
	2.5	7/0.67	2.01	0.7	1.8	11.5	7.41	3,500	160	135	300
	4	7/0.85	2.55	0.7	1.8	12.5	4.61	3,500	220	185	300
	6	7/1.04	3.12	0.7	1.8	13.5	3.08	3,500	275	235	300
	10	7/1.35	4.05	0.7	1.8	15.5	1.83	3,500	385	340	300
3	1.5	7/0.53	1.59	0.7	1.8	11	12.1	3,500	155	130	300
	2.5	7/0.67	2.01	0.7	1.8	12	7.41	3,500	195	165	300
	4	7/0.85	2.55	0.7	1.8	13	4.61	3,500	275	240	300
	6	7/1.04	3.12	0.7	1.8	14.5	3.08	3,500	345	305	300
	10	7/1.35	4.05	0.7	1.8	16.5	1.83	3,500	495	450	300
4	1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3,500	185	155	300
	2.5	7/0.67	2.01	0.7	1.8	13	7.41	3,500	235	200	300
	4	7/0.85	2.55	0.7	1.8	14.5	4.61	3,500	335	295	300
	6	7/1.04	3.12	0.7	1.8	15.5	3.08	3,500	430	385	300
	10	7/1.35	4.05	0.7	1.8	18	1.83	3,500	615	565	300
5	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3,500	220	185	300
	2.5	7/0.67	2.01	0.7	1.8	14	7.41	3,500	275	240	300
	4	7/0.85	2.55	0.7	1.8	15.5	4.61	3,500	390	45	300
	6	7/1.04	3.12	0.7	1.8	17	3.08	3,500	515	465	300
	10	7/1.35	4.05	0.7	1.8	19.5	1.83	3,500	755	695	300
6	1.5	7/0.53	1.59	0.7	1.8	13.5	12.1	3,500	250	215	300
	2.5	7/0.67	2.01	0.7	1.8	15	7.41	3,500	320	280	300
	4	7/0.85	2.55	0.7	1.8	16.5	4.61	3,500	460	410	300
	6	7/1.04	3.12	0.7	1.8	18.5	3.08	3,500	610	555	300
	10	7/1.35	4.05	0.7	1.8	21	1.83	3,500	885	820	300
7	1.5	7/0.53	1.59	0.7	1.8	13.5	12.1	3,500	265	230	300
	2.5	7/0.67	2.01	0.7	1.8	15	7.41	3,500	345	305	300
	4	7/0.85	2.55	0.7	1.8	16.5	4.61	3,500	495	450	300
	6	7/1.04	3.12	0.7	1.8	18.5	3.08	3,500	660	605	300
	10	7/1.35	4.05	0.7	1.8	21	1.83	3,500	970	910	300
8	1.5	7/0.53	1.59	0.7	1.8	14.5	12.1	3,500	290	250	300
	2.5	7/0.67	2.01	0.7	1.8	16	7.41	3,500	395	350	300
	4	7/0.85	2.55	0.7	1.8	18	4.61	3,500	570	515	300
	6	7/1.04	3.12	0.7	1.8	20	3.08	3,500	750	690	300
	10	7/1.35	4.05	0.7	1.8	23	1.83	3,500	1,115	1,045	300
10	1.5	7/0.53	1.59	0.7	1.8	16.5	12.1	3,500	375	325	300
	2.5	7/0.67	2.01	0.7	1.8	18.5	7.41	3,500	485	435	300
	4	7/0.85	2.55	0.7	1.8	21	4.61	3,500	725	660	300
	6	7/1.04	3.12	0.7	1.8	23	3.08	3,500	950	885	300
	10	7/1.35	4.05	0.7	1.8	27	1.83	3,500	1,415	1,335	300
12	1.5	7/0.53	1.59	0.7	1.8	17	12.1	3,500	420	370	300
	2.5	7/0.67	2.01	0.7	1.8	19	7.41	3,500	550	500	300
	4	7/0.85	2.55	0.7	1.8	21	4.61	3,500	810	745	300
	6	7/1.04	3.12	0.7	1.8	24	3.08	3,500	1,095	1,025	300
	10	7/1.35	4.05	0.7	1.8	28	1.83	3,500	1,630	1,545	300
15	1.5	7/0.53	1.59	0.7	1.8	18.5	12.1	3,500	480	430	300
	2.5	7/0.67	2.01	0.7	1.8	21	7.41	3,500	640	585	300
	4	7/0.85	2.55	0.7	1.8	23	4.61	3,500	980	910	300
	6	7/1.04	3.12	0.7	1.8	26	3.08	3,500	1,310	1,235	300
20	1.5	7/0.53	1.59	0.7	1.8	21	12.1	3,500	605	550	300
	2.5	7/0.67	2.01	0.7	1.8	23	7.41	3,500	820	755	300
	4	7/0.85	2.55	0.7	1.8	26	4.61	3,500	1,250	1,170	300
	6	7/1.04	3.12	0.7	1.8	29	3.08	3,500	1,690	1,600	300
25	1.5	7/0.53	1.59	0.7	1.8	23	12.1	3,500	725	660	300
	2.5	7/0.67	2.01	0.7	1.8	26	7.41	3,500	1,010	940	300
	4	7/0.85	2.55	0.7	1.8	31	4.61	3,500	1,540	1,445	300
30	1.5	7/0.53	1.59	0.7	1.8	24	12.1	3,500	840	770	300
	2.5	7/0.67	2.01	0.7	1.8	27	7.41	3,500	1,180	1,100	300
	4	7/0.85	2.55	0.7	1.9	31	4.61	3,500	1,795	1,695	300
40	1.5	7/0.53	1.59	0.7	1.8	27	12.1	3,500	1,055	975	300
	2.5	7/0.67	2.01	0.7	1.8	30	7.41	3,500	1,180	1,390	300
50	1.5	7/0.53	1.59	0.7	1.8	30	12.1	3,500	1,305	1,215	300
	2.5	7/0.67	2.01	0.7	1.9	32	7.41	3,500	1,840	1,730	300

0.6/1KV Control Cable

CCV-S, CCE-S

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃	시험전압 Test Voltage	중량 Approx. Weight	표준길이 Standard Length
	공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter							
2	1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3,500	165	300
	2.5	7/0.67	2.01	0.7	1.8	12.5	7.41	3,500	195	300
	4	7/0.85	2.55	0.7	1.8	14.5	4.61	3,500	260	300
	6	7/1.04	3.12	0.7	1.8	15.5	3.08	3,500	325	300
	10	7/1.35	4.05	0.7	1.8	17.5	1.83	3,500	445	300
3	1.5	7/0.53	1.59	0.7	1.8	12	12.1	3,500	185	300
	2.5	7/0.67	2.01	0.7	1.8	13	7.41	3,500	235	300
	4	7/0.85	2.55	0.7	1.8	15.5	4.61	3,500	325	300
	6	7/1.04	3.12	0.7	1.8	16.5	3.08	3,500	400	300
	10	7/1.35	4.05	0.7	1.8	18.5	1.83	3,500	560	300
4	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3,500	220	300
	2.5	7/0.67	2.01	0.7	1.8	14	7.41	3,500	275	300
	4	7/0.85	2.55	0.7	1.8	16.5	4.61	3,500	385	300
	6	7/1.04	3.12	0.7	1.8	18	3.08	3,500	490	300
	10	7/1.35	4.05	0.7	1.8	20	1.83	3,500	690	300
5	1.5	7/0.53	1.59	0.7	1.8	14	12.1	3,500	255	300
	2.5	7/0.67	2.01	0.7	1.8	15.51	7.41	3,500	325	300
	4	7/0.85	2.55	0.7	1.8	8	4.61	3,500	450	300
	6	7/1.04	3.12	0.7	1.8	19.5	3.08	3,500	585	300
	10	7/1.35	4.05	0.7	1.8	22	1.83	3,500	830	300
6	1.5	7/0.53	1.59	0.7	1.8	15	12.1	3,500	295	300
	2.5	7/0.67	2.01	0.7	1.8	16.5	7.41	3,500	375	300
	4	7/0.85	2.55	0.7	1.8	19	4.61	3,500	525	300
	6	7/1.04	3.12	0.7	1.8	21	3.08	3,500	685	300
	10	7/1.35	4.05	0.7	1.8	24	1.83	3,500	980	300
7	1.5	7/0.53	1.59	0.7	1.8	15	12.1	3,500	310	300
	2.5	7/0.67	2.01	0.7	1.8	16.5	7.41	3,500	400	300
	4	7/0.85	2.55	0.7	1.8	19	4.61	3,500	455	300
	6	7/1.04	3.12	0.7	1.8	21	3.08	3,500	735	300
	10	7/1.35	4.05	0.7	1.8	24	1.83	3,500	1,070	300
8	1.5	7/0.53	1.59	0.7	1.8	16	12.1	3,500	345	300
	2.5	7/0.67	2.01	0.7	1.8	17.5	7.41	3,500	450	300
	4	7/0.85	2.55	0.7	1.8	20.5	4.61	3,500	645	300
	6	7/1.04	3.12	0.7	1.8	22.5	3.08	3,500	840	300
	10	7/1.35	4.05	0.7	1.8	25.5	1.83	3,500	1,220	300
10	1.5	7/0.53	1.59	0.7	1.8	18.5	12.1	3,500	435	300
	2.5	7/0.67	2.01	0.7	1.8	20	7.41	3,500	555	300
	4	7/0.85	2.55	0.7	1.8	24	4.61	3,500	820	300
	6	7/1.04	3.12	0.7	1.8	26.5	3.08	3,500	1,060	300
	10	7/1.35	4.05	0.7	1.8	30	1.83	3,500	1,565	300
12	1.5	7/0.53	1.59	0.7	1.8	19	12.1	3,500	480	300
	2.5	7/0.67	2.01	0.7	1.8	20.5	7.41	3,500	625	300
	4	7/0.85	2.55	0.7	1.8	25	4.61	3,500	910	300
	6	7/1.04	3.12	0.7	1.8	27	3.08	3,500	1,220	300
	10	7/1.35	4.05	0.7	1.8	31.5	1.83	3,500	1,840	300
15	1.5	7/0.53	1.59	0.7	1.8	20.5	12.1	3,500	550	300
	2.5	7/0.67	2.01	0.7	1.8	22	7.41	3,500	720	300
	4	7/0.85	2.55	0.7	1.8	26.5	4.61	3,500	1,100	300
	6	7/1.04	3.12	0.7	1.8	29.5	3.08	3,500	1,450	300
20	1.5	7/0.53	1.59	0.7	1.8	22.5	12.1	3,500	695	300
	2.5	7/0.67	2.01	0.7	1.8	24.5	7.41	3,500	915	300
	4	7/0.85	2.55	0.7	1.8	29.5	4.61	3,500	1,390	300
	6	7/1.04	3.12	0.7	1.8	33	3.08	3,500	1,890	300
25	1.5	7/0.53	1.59	0.7	1.8	25	12.1	3,500	825	300
	2.5	7/0.67	2.01	0.7	1.8	27.5	7.41	3,500	1,140	300
	4	7/0.85	2.55	0.7	1.9	34	4.61	3,500	1,745	300
30	1.5	7/0.53	1.59	0.7	1.8	26.5	12.1	3,500	960	300
	2.5	7/0.67	2.01	0.7	1.8	29	7.41	3,500	1,310	300
	4	7/0.85	2.55	0.7	1.8	36	4.61	3,500	2,015	300
40	1.5	7/0.53	1.59	0.7	1.8	29.5	12.1	3,500	1,190	300
	2.5	7/0.67	2.01	0.7	1.8	33	7.41	3,500	1,680	300
50	1.5	7/0.53	1.59	0.7	1.8	32.5	12.1	3,500	1,505	300
	2.5	7/0.67	2.01	0.7	1.9	36.5	7.41	3,500	2,080	300

22.9KV 동심중성선 전력 케이블

22.9KV Grade XLPE Insulated PVC Sheathed Concentric Neutral Power Cable(22.9KV CNCV-W)

● 용도

22.9KV-y 다중접지 계통의 지중배전선로용으로 전기적, 물리적, 화학적으로 특성이 우수한 케이블이다.

● USE

This cable is the purpose of using in power distribution line having excellent electrical, physical and chemical properties.

● 구조

- 도 체 : 전기용 연동선 또는 알루미늄 (수밀 압축 연선)
- 내부반도전층 : 반도전성 XLPE 또는 TR 반도전성 XLPE
- 절 연 체 : XLPE
- 외부반도전층 : 반도전성 XLPE 또는 TR 반도전성 XLPE
- 동 심 중 성 선 : 전기용 연동선
- 피 복 체 : PVC, PE 또는 저독성 난연 폴리올레핀

● CONSTRUCTION

- Conductor : Annealed Copper Wire or Aluminium (Water Blocking Compact circular)
- Conductor Screen : Semi-Conductive XLPE or TR Semi-Conductive XLPE
- Insulation : XLPE
- Insulation Screen : Semi-Conductive XLPE or TR Semi-Conductive XLPE
- Concentric Neutral Conductor : Annealed Copper Wire
- Sheath : PVC, PE or Non-Halogen Flame Retardant Poly-Olefin

● 종류 및 기호

종 류	기 호
22.9KV 가교 폴리에틸렌 절연 비닐피복 동심 중성선 수밀형 케이블	22.9KV-y CNCV-W
22.9KV 가교 폴리에틸렌 절연 저독난연 폴리올레핀피복 동심 중성선 수밀형 케이블	22.9KV-y FR-CNCO-W
22.9KV 가교 폴리에틸렌 절연 저독난연 폴리올레핀피복 동심 중성선 수밀형 케이블	22.9KV-y FR-CNCO-W/AL
22.9KV 트리 억제형 가교 폴리에틸렌 절연 비닐피복 동심 중성선 수밀형 케이블	22.9KV-y TR-CNCV-W
22.9KV 트리 억제형 가교 폴리에틸렌 절연, 폴리에틸렌 피복 동심 중성선 수밀형 케이블	22.9KV-y TR-CNCE-W
22.9KV 수트리 억제 충실 알루미늄 전력케이블	22.9KV-y TR-CNCE-W/AL

● Classes & Symbols

No. of Cores	Symbol
22.9KV XLPE Insulated PVC Sheathed Concentric Neutral Power Cables (Longitudinal and Radial Water Blocking)	22.9KV-y CNCV-W
22.9KV XLPE Insulated Halogen Free Poly-Olefin Sheathed Concentric Neutral Power Cables (Longitudinal and Radial Water Blocking)	22.9KV-y FR-CNCO-W
22.9KV XLPE Insulated Halogen Free Poly-Olefin Sheathed Concentric Neutral Power Cables (Longitudinal and Radial Water Blocking)	22.9KV-y FR-CNCO-W/AL
22.9KV Tree Retardant XLPE Insulated PVC Sheathed Concentric Neutral Power Cables	22.9KV-y TR-CNCV-W
22.9KV Tree Retardant XLPE Insulated, Polyethylene Sheathed Concentric Neutral Power Cables	22.9KV-y TR-CNCE-W
22.9KV Concentric Neutral Type Water Tree Retardant XLPE Insulated Extruded-to-Fill Polyethylene Jacketed Water-Proof Power Aluminium Cables	22.9KV-y TR-CNCE-W/AL

WIRE & CABLE

22.9KV 동심중성선 전력 케이블

22.9KV Grade XLPE Insulated PVC Sheathed Concentric Neutral Power Cable(22.9KV CNCV-W)



22.9KV-y CNCV-W

22.9KV-y FR-CNCO-W
22.9KV-y FR-CNCO-W/AL

22.9KV CNCV-W, 22.9KV FR-CNCO-W, 22.9KV TR-CNCV-W

도체 Conductor			절연두께	절연외경	중성선 Concentric Neutral				쉬스두께	완성품	도체저항	절연저항	정전용량	참고 Reference	
공칭단면적 Nominal Sectional Area mm ²	모양 Shape	바깥지름 Outer Diameter	Average Insulation Thickness mm	Insulation Outer Diameter mm	소선경 Diameter of Wire mm ²	소선수 No. of Cores	총단면적 Sectional Area mm ²	외경(약) Approx. Diameter mm	Nominal Sheath Thickness mm	바깥지름 Approx. Overall Diameter mm	Max, Conductor Resistance at 20℃ Ω /km	Min, Insulation Resistance at 20℃ MΩ -km	Max, Capacitance μF -km	계산중량 Approx. Weight kg/km	표준길이 Standard Length m
60		9.3	6.6	24.5	1.2	18	20	30	3	36	0.305	3000	0.21	1,700	200
100*	원	12.0	6.6	27.1	1.6	17	34	33	3	39	0.183	3000	0.24	2,350	200
150*		14.7	6.6	29.8	1.8	20	50	36	3	42	0.122	2500	0.27	3,100	200
200	형	17.0	6.6	32.1	2.0	21	66	39	3	45	0.0915	2000	0.32	3,750	200
250*		19.0	6.6	34.1	2.3	20	83	42	3	48	0.0739	2000	0.31	4,500	200
325	압	21.7	6.6	36.8	2.3	26	108	45	3	51	0.0568	2000	0.36	5,500	200
400*		24.1	6.6	39.2	2.6	25	132	48	3	54	0.0462	1500	0.38	6,550	200
500*	축	26.9	6.6	42.0	2.6	31	164	51	4	59	0.0369	1500	0.42	7,850	200
600		29.5	6.6	44.6	2.6	38	201	53	4	61	0.0308	1500	0.47	9,550	150

22.9KV FR-CNCO-W/AL

도체 Conductor			절연두께	절연외경	중성선 Concentric Neutral				쉬스두께	완성품	도체저항	절연저항	정전용량	참고 Reference	
공칭단면적 Nominal Sectional Area mm ²	모양 Shape	바깥지름 Outer Diameter	Average Insulation Thickness mm	Insulation Outer Diameter mm	소선경 Diameter of Wire mm ²	소선수 No. of Cores	총단면적 Sectional Area mm ²	외경(약) Approx. Diameter mm	Nominal Sheath Thickness mm	바깥지름 Approx. Overall Diameter mm	Max, Conductor Resistance at 20℃ Ω /km	Min, Insulation Resistance at 20℃ MΩ -km	Max, Capacitance μF -km	계산중량 Approx. Weight kg/km	표준길이 Standard Length m
95		11.4	6.8	26.0	1.2	18	20	31.6	2.2	40.6	0.320	3000	0.21	1,330	200
240		18.3	6.8	33.1	2.0	16	50	40.8	3.0	51.4	0.125	2000	0.32	2,500	200
400		23.2	6.8	38.2	2.0	26	82	45.9	3.0	56.5	0.0778	2000	0.36	3,500	200

주 : 1. 계산중량은 약간의 차이가 있을 수 있습니다.
3. 절연 두께는 절연층만의 두께입니다.

2. CNCV-W, FR-CNCO-W, FR-CNCO-W/AL, TR-CNCV-W의 구조는 동일합니다.
4. * 표는 당사 표준입니다.

22.9KV 동심중성선 수트리억제 충실 전력케이블

22.9KV Grade TR-XLPE Insulated Polyethylene Sheathed Concentric Neutral Power Cable(22.9KV TR-CNCE -W)



22.9KV-y TR-CNCE-W

22.9KV TR-CNCE-W

도체 Conductor			절연두께 Average Insulation Thickness	절연외경 Insulation Outer Diameter	중성선 Concentric Neutral				쉬스두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	절연저항 Min. Insulation Resistance at 20℃ MΩ-km	정전용량 Max. Capacitance μF-km	참고 Reference	
공칭단면적 Nominal Sectional Area mm²	모양 Shape	바깥지름 Outer Diameter mm			소선경 Diameter of Wire mm²	소선수 No. of Cores	총단면적 Sectional Area mm²	외경(약) Approx. Diameter mm						계산중량 Approx. Weight kg/km	표준길이 Standard Length m
60	원	9.3	6.8	23.9	1.2	18	20	29	1.5	32	0.305	3000	0.21	1,500	200
200	형	17.0	6.8	31.8	2.0	21	66	39	1.5	42	0.0915	2000	0.32	3,600	200
325	압	21.7	6.8	36.7	2.3	26	108	45	2.4	49.5	0.0568	2000	0.36	5,350	200
600	축	29.5	6.8	45.1	2.6	38	201	55	2.4	59	0.0308	1500	0.47	9,450	200

22.9KV TR-CNCE-W/AL

도체 Conductor			절연두께 Average Insulation Thickness	절연외경 Insulation Outer Diameter	중성선 Concentric Neutral				쉬스두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃ Ω /km	절연저항 Min. Insulation Resistance at 20℃ MΩ-km	정전용량 Max. Capacitance μF-km	참고 Reference	
공칭단면적 Nominal Sectional Area mm²	모양 Shape	바깥지름 Outer Diameter mm			소선경 Diameter of Wire mm²	소선수 No. of Cores	총단면적 Sectional Area mm²	외경(약) Approx. Diameter mm						계산중량 Approx. Weight kg/km	표준길이 Standard Length m
95	원	11.40	6.8	26.0	1.2	18	20	31.6	1.5	34.6	0.3200	3000	0.21	1,300	200
240	형	18.30	6.8	33.1	2.0	16	50	40.8	1.5	43.8	0.1250	2000	0.32	2,400	200
400	축	23.20	6.8	38.2	2.0	26	82	45.9	2.4	50.7	0.0778	2000	0.36	3,550	200

주 : 1. 계산중량은 약간의 차이가 있을 수 있습니다.
2. 절연 두께는 절연층만의 두께입니다.



난연 케이블

Flame retardant Cable

- Flame Retardant Cable
- 0.6/1KV Tray Flame Retardant PVC Sheathed Control Cable(0.6/1KV TFR-CVV, TFR-CVV-S)
- 0.6/1KV Tray Flame Retardant PVC Sheathed Power Cable(0.6/1KV TFR-CV)
- 6/10KV Tray Flame Retardant PVC Sheathed Power Cable(6/10KV TFR-CV)
- 8.7/15KV XLPE Insulated Power Cable(TFR-CV)
- 12/20KV XLPE Insulated Power Cable(TFR-CV)
- 18/30KV XLPE Insulated Power Cable(TFR-CV)
- 0.6/1KV Tray Heat-Resistant Cable(0.6/1KV TFR-3, NFR-3)
- 0.6/1KV Tray Fire-Proof Cable(0.6/1KV TFR-8, NFR-8)
- 0.6/1KV XLPE Insulated Halogen Free Flame Retardant Poly-Olefin Sheathed Control Cables
(0.6/1KV HF - CCO, HF - CCO-S)
- 0.6/1KV XLPE Insulated Halogen Free Flame Retardant Poly-Olefin Sheathed Power Cables(0.6/1KV HF - CO)
- 6/10KV XLPE Insulated Halogen Free Flame Retardant Power Cables(6/10KV HF - CO)

● 용도

전력, 정보System 및 산업제반시설이 복잡하고 다양화 되면서 전기 사용량이 늘어나고 화재가 발생하면 초고층빌딩, 지하철, 공연장, 지하상가 등 도시 공간을 고도로 사용하는 장소에서 화재의 확산을 막을 수 있는 Tray용 난연 케이블(TFR Cable)이 있으며, 저독성(HFFR Cable)을 사용하면 2차 피해인 유독가스에 의한 인명 피해도 막을 수 있습니다.

● 난연 케이블의 종류

종 류	Tray용 난연 케이블	저독성 난연 케이블
절연전선	-	450/750V HF-IO
전력선	0,6/1KV TFR-CV 6/10KV TFR-CV	0,6/1KV HF-CO 6/10KV HF-CO
제어용 케이블	0,6/1KV TFR-CW 0,6/1KV TFR-CW-S	0,6/1KV HF-CCO 0,6/1KV HF-CCO-S
소방용 케이블	0,6/1KV TFR-3 0,6/1KV TFR-8	0,6/1KV NFR-3 0,6/1KV NFR-8

● 난연 특성

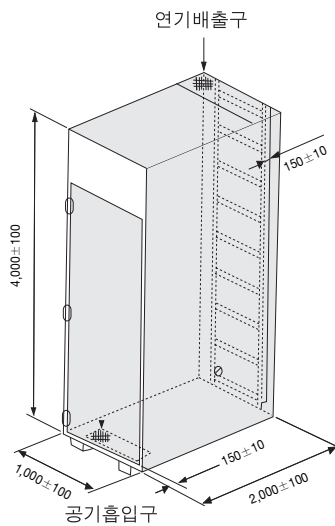
종 류	Tray용 난연 케이블	저독성 난연 케이블
PH	-	4.3% 이상
연기밀도	-	절연체 : 200%이하, 피복체 : 150%이하
유독가스 발생량	연기밀도	0.50%이하
난연성	수직 Tray 난연 불꽃시험	
시험방법	KS C IES 60332-3-24(카테고리 C)	

● 난연 시험 방법

항 목	Tray용 난연 케이블
시험 규격서	KS C IES 60332-3-24, Tray용 난연 케이블, 저독성 난연 케이블
화염 인가조건	공기 77.7±4.8 l/min과 프로판 가스 13.5±4.8 l/min을 태워 20분간 인가
시험 설비	높이 4m, 폭 1m, 깊이 2m의 연소실
시험 방법	<ol style="list-style-type: none"> 1. 시험 시료 길이 3.5m로 한다. 2. 시료의 재료중 비금속 물질의 체적이 1.5 l/m가 되도록 시료수를 선정한다. 3. 트레이에 시료를 최대 폭이 300mm 이하가 되도록 채운다. 4. 공기 77.7±4.8 l/min과 프로판 가스 13.5±4.8 l/min을 태운 가열원을 20분간 인가 한다. 5. 버너는 바닥에서 높이 600±5mm와 시료 전면에서 부터 75±5mm의 거리에 수평으로 설치한다.
시험 결과	버너의 바닥 모서리 부분으로 부터 2.5m 이상타지 않아야 한다.

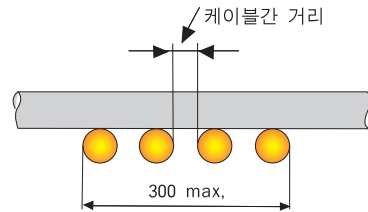
Flame Retardant Cables

시험설비

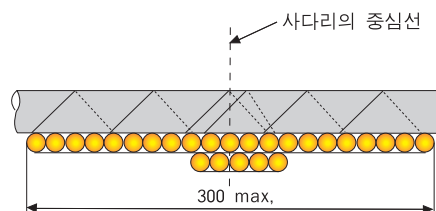


수직 TRAY 시험 연소실

표준 사다리의 전면 부위에 장착된 이격 케이블



표준 사다리의 전면 부위에 장착된 접촉 케이블의 배열



수직 TRAY 난연 시험 장면 (무독성 난연 케이블과 일반 케이블의 비교)



10분 ⇨



20분 ⇨



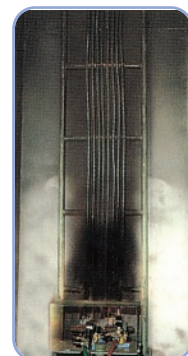
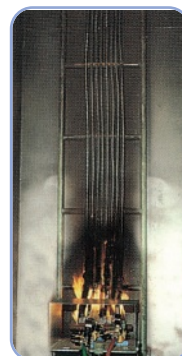
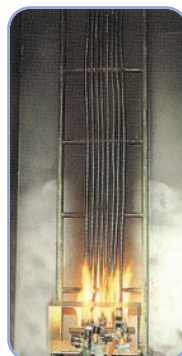
종료

일반 케이블

⇨ 20분

⇨ 10분

트레이용 케이블



0.6/1KV TRAY용 난연 제어용 케이블

Tray Flame Retardant PVC Sheathed Control Cable

KS C IEC 60502-1, 대용표준

● 용도

발전소, 변전소 등의 0.6/1KV 이하의 원격 제어용으로 적합한 케이블로서 PVC 피복 제어 케이블에 비하여 난연 특성이 매우 우수하다.

● 구조

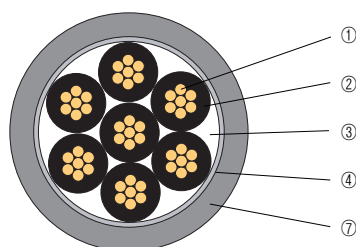
- 도 체 : 전기용 연동선 (단선, 원형 연선)
- 절 연 체 : PVC
- 선 심 식 별 : 착색

선 심 수	색
2 심	흑, 백
3 심	흑, 백, 적
4 심	흑, 백, 적, 녹
5 심	흑, 백, 적, 녹, 황
6 심	흑, 백, 적, 녹, 황, 갈
7 심	흑, 백, 적, 녹, 황, 갈, 청

- 피 복 체 : 난연성 염화 비닐 수지
- 8 심 이 상 : Numbering

● 종류 및 기호

종 류	기 호
0.6/1KV 비닐절연 난연 비닐피복 제어용 케이블	0.6/1KV TFR-CW
- 동테이프 차폐 케이블	0.6/1KV TFR-CW-S



0.6/1KV TFR-CW

● USE

This cable is designed for the purpose of using in remote control system in power plant and substation, having excellent flame retardant

● CONSTRUCTION

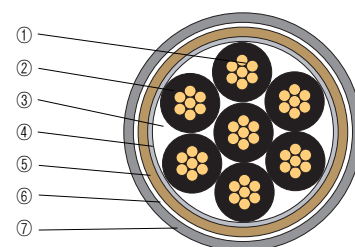
- Conductor : Annealed Copper Wire (Solid, Concentric circular)
- Insulation : PVC
- Core Identification : Colouring Method

No. of Cores	Colour
2 Cores	Black, White
3 Cores	Black, White, Red
4 Cores	Black, White, Red, Green
5 Cores	Black, White, Red, Green, Yellow
6 Cores	Black, White, Red, Green, Yellow, Brown
7 Cores	Black, White, Red, Green, Yellow, Brown, Blue

- Sheath : Flame Retardant PVC
- Above 8 Core : Numbering

● Classes & Symbols

No. of Cores	Symbol
0.6/1KV PVC insulated FR-PVC Sheathed Control Cable	0.6/1KV TFR-CW
- Copper Tape Shield	0.6/1KV TFR-CW-S



0.6/1KV TFR-CW-S

- ① 도 체 : Conductor
- ② 절연체 : Insulation
- ③ 개재물 : Filler
- ④ 바인더 테이프 : Binder Tape
- ⑤ 차폐층 : Shield (Copper Tape, Shield Braid)
- ⑥ 바인더 테이프 : Binder Tape
- ⑦ 피복체 : Flame retardant PVC

WIRE & CABLE

0.6/1KV TRAY용 난연 제어용 케이블

KS C IEC 60502-1, 대용표준

Tray Flame Retardant PVC Sheathed Control Cable

0.6/1KV TFR-CVW

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
	공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
2	1.5	7/0.53	1.59	0.8	1.8	11	12.1	3,500	145	300
	2.5	7/0.67	2.01	0.8	1.8	12	7.41	3,500	175	300
	4	7/0.85	2.55	1.0	1.8	14	4.61	3,500	240	300
	6	7/1.04	3.12	1.0	1.8	15	3.08	3,500	295	300
	10	7/1.35	4.05	1.0	1.8	17	1.83	3,500	410	300
3	1.5	7/0.53	1.59	0.8	1.8	11.5	12.1	3,500	170	300
	2.5	7/0.67	2.01	0.8	1.8	12.5	7.41	3,500	215	300
	4	7/0.85	2.55	1.0	1.8	14.5	4.61	3,500	300	300
	6	7/1.04	3.12	1.0	1.8	16	3.08	3,500	375	300
	10	7/1.35	4.05	1.0	1.8	18	1.83	3,500	530	300
4	1.5	7/0.53	1.59	0.8	1.8	12.5	12.1	3,500	205	300
	2.5	7/0.67	2.01	0.8	1.8	13.5	7.41	3,500	255	300
	4	7/0.85	2.55	1.0	1.8	16	4.61	3,500	365	300
	6	7/1.04	3.12	1.0	1.8	17.5	3.08	3,500	465	300
	10	7/1.35	4.05	1.0	1.8	19.5	1.83	3,500	665	300
5	1.5	7/0.53	1.59	0.8	1.8	13.5	12.1	3,500	240	300
	2.5	7/0.67	2.01	0.8	1.8	14.5	7.41	3,500	305	300
	4	7/0.85	2.55	1.0	1.8	17	4.61	3,500	430	300
	6	7/1.04	3.12	1.0	1.8	19	3.08	3,500	560	300
	10	7/1.35	4.05	1.0	1.8	21.5	1.83	3,500	810	300
6	1.5	7/0.53	1.59	0.8	1.8	14.5	12.1	3,500	275	300
	2.5	7/0.67	2.01	0.8	1.8	15.5	7.41	3,500	350	300
	4	7/0.85	2.55	1.0	1.8	18.5	4.61	3,500	505	300
	6	7/1.04	3.12	1.0	1.8	20.5	3.08	3,500	660	300
	10	7/1.35	4.05	1.0	1.8	23	1.83	3,500	950	300
7	1.5	7/0.53	1.59	0.8	1.8	14.5	12.1	3,500	295	300
	2.5	7/0.67	2.01	0.8	1.8	15.5	7.41	3,500	380	300
	4	7/0.85	2.55	1.0	1.8	18.5	4.61	3,500	550	300
	6	7/1.04	3.12	1.0	1.8	20.5	3.08	3,500	720	300
	10	7/1.35	4.05	1.0	1.8	23	1.83	3,500	1,045	300
8	1.5	7/0.53	1.59	0.8	1.8	15.5	12.1	3,500	325	300
	2.5	7/0.67	2.01	0.8	1.8	17	7.41	3,500	430	300
	4	7/0.85	2.55	1.0	1.8	20	4.61	3,500	625	300
	6	7/1.04	3.12	1.0	1.8	22	3.08	3,500	815	300
	10	7/1.35	4.05	1.0	1.8	25	1.83	3,500	1,200	300
10	1.5	7/0.53	1.59	0.8	1.8	17.5	12.1	3,500	410	300
	2.5	7/0.67	2.01	0.8	1.8	19.5	7.41	3,500	535	300
	4	7/0.85	2.55	1.0	1.8	23.5	4.61	3,500	795	300
	6	7/1.04	3.12	1.0	1.8	25.5	3.08	3,500	1,035	300
	10	7/1.35	4.05	1.0	1.8	29.5	1.83	3,500	1,520	300
12	1.5	7/0.53	1.59	0.8	1.8	18	12.1	3,500	460	300
	2.5	7/0.67	2.01	0.8	1.8	20	7.41	3,500	605	300
	4	7/0.85	2.55	1.0	1.8	24	4.61	3,500	895	300
	6	7/1.04	3.12	1.0	1.8	26.5	3.08	3,500	1,195	300
	10	7/1.35	4.05	1.0	1.8	30.5	1.83	3,500	1,765	300
15	1.5	7/0.53	1.59	0.8	1.8	19.5	12.1	3,500	535	300
	2.5	7/0.67	2.01	0.8	1.8	21.5	7.41	3,500	705	300
	4	7/0.85	2.55	1.0	1.8	26	4.61	3,500	1,085	300
	6	7/1.04	3.12	1.0	1.8	28.5	3.08	3,500	1,435	300
20	1.5	7/0.53	1.59	0.8	1.8	21.5	12.1	3,500	675	300
	2.5	7/0.67	2.01	0.8	1.8	24	7.41	3,500	905	300
	4	7/0.85	2.55	1.0	1.8	29	4.61	3,500	1,385	300
	6	7/1.04	3.12	1.0	1.8	32	3.08	3,500	1,850	300
25	1.5	7/0.53	1.59	0.8	1.8	24	12.1	3,500	815	300
	2.5	7/0.67	2.01	0.8	1.8	27	7.41	3,500	1,120	300
	4	7/0.85	2.55	1.0	1.9	33	4.61	3,500	1,710	300
30	1.5	7/0.53	1.59	0.8	1.8	25.5	12.1	3,500	945	300
	2.5	7/0.67	2.01	0.8	1.8	28.5	7.41	3,500	1,305	300
	4	7/0.85	2.55	1.0	1.9	35	4.61	3,500	1,995	300
40	1.5	7/0.53	1.59	0.8	1.8	28.5	12.1	3,500	1,200	300
	2.5	7/0.67	2.01	0.8	1.9	32	7.41	3,500	1,655	300
50	1.5	7/0.53	1.59	0.8	1.9	31.5	12.1	3,500	1,485	300
	2.5	7/0.67	2.01	0.8	2.0	35.5	7.41	3,500	2,055	300

0.6/1KV TRAY용 난연 제어용 케이블

Tray Flame Retardant PVC Sheathed Control Cable

0.6/1KV TFR-CVW-S

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
	공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
2	1.5	7/0.53	1.59	0.8	1.8	11.5	12.1	3,500	175	300
	2.5	7/0.67	2.01	0.8	1.8	12.5	7.41	3,500	210	300
	4	7/0.85	2.55	1.0	1.8	14.5	4.61	3,500	280	300
	6	7/1.04	3.12	1.0	1.8	15.5	3.08	3,500	350	300
	10	7/1.35	4.05	1.0	1.8	17.5	1.83	3,500	470	300
3	1.5	7/0.53	1.59	0.8	1.8	12	12.1	3,500	205	300
	2.5	7/0.67	2.01	0.8	1.8	13	7.41	3,500	250	300
	4	7/0.85	2.55	1.0	1.8	15.5	4.61	3,500	350	300
	6	7/1.04	3.12	1.0	1.8	16.5	3.08	3,500	430	300
	10	7/1.35	4.05	1.0	1.8	18.5	1.83	3,500	595	300
4	1.5	7/0.53	1.59	0.8	1.8	13	12.1	3,500	240	300
	2.5	7/0.67	2.01	0.8	1.8	14	7.41	3,500	295	300
	4	7/0.85	2.55	1.0	1.8	16.5	4.61	3,500	425	300
	6	7/1.04	3.12	1.0	1.8	18	3.08	3,500	525	300
	10	7/1.35	4.05	1.0	1.8	20	1.83	3,500	735	300
5	1.5	7/0.53	1.59	0.8	1.8	14	12.1	3,500	280	300
	2.5	7/0.67	2.01	0.8	1.8	15.5	7.41	3,500	355	300
	4	7/0.85	2.55	1.0	1.8	18	4.61	3,500	490	300
	6	7/1.04	3.12	1.0	1.8	19.5	3.08	3,500	630	300
	10	7/1.35	4.05	1.0	1.8	22	1.83	3,500	885	300
6	1.5	7/0.53	1.59	0.8	1.8	15	12.1	3,500	320	300
	2.5	7/0.67	2.01	0.8	1.8	16.5	7.41	3,500	405	300
	4	7/0.85	2.55	1.0	1.8	19	4.61	3,500	575	300
	6	7/1.04	3.12	1.0	1.8	21	3.08	3,500	735	300
	10	7/1.35	4.05	1.0	1.8	24	1.83	3,500	1,045	300
7	1.5	7/0.53	1.59	0.8	1.8	15	12.1	3,500	340	300
	2.5	7/0.67	2.01	0.8	1.8	16.5	7.41	3,500	435	300
	4	7/0.85	2.55	1.0	1.8	19	4.61	3,500	620	300
	6	7/1.04	3.12	1.0	1.8	21	3.08	3,500	795	300
	10	7/1.35	4.05	1.0	1.8	24	1.83	3,500	1,145	300
8	1.5	7/0.53	1.59	0.8	1.8	16	12.1	3,500	375	300
	2.5	7/0.67	2.01	0.8	1.8	17.5	7.41	3,500	490	300
	4	7/0.85	2.55	1.0	1.8	20.5	4.61	3,500	705	300
	6	7/1.04	3.12	1.0	1.8	22.5	3.08	3,500	910	300
	10	7/1.35	4.05	1.0	1.8	25.5	1.83	3,500	1,305	300
10	1.5	7/0.53	1.59	0.8	1.8	18.5	12.1	3,500	475	300
	2.5	7/0.67	2.01	0.8	1.8	20	7.41	3,500	605	300
	4	7/0.85	2.55	1.0	1.8	24	4.61	3,500	895	300
	6	7/1.04	3.12	1.0	1.8	26.5	3.08	3,500	1,145	300
	10	7/1.35	4.05	1.0	1.8	30	1.83	3,500	1,665	300
12	1.5	7/0.53	1.59	0.8	1.8	19	12.1	3,500	530	300
	2.5	7/0.67	2.01	0.8	1.8	20.5	7.41	3,500	680	300
	4	7/0.85	2.55	1.0	1.8	25	4.61	3,500	995	300
	6	7/1.04	3.12	1.0	1.8	27	3.08	3,500	1,320	300
	10	7/1.35	4.05	1.0	1.8	31.5	1.83	3,500	1,955	300
15	1.5	7/0.53	1.59	0.8	1.8	20.5	12.1	3,500	610	300
	2.5	7/0.67	2.01	0.8	1.8	22	7.41	3,500	790	300
	4	7/0.85	2.55	1.0	1.8	26.5	4.61	3,500	1,210	300
	6	7/1.04	3.12	1.0	1.8	29.5	3.08	3,500	1,570	300
20	1.5	7/0.53	1.59	0.8	1.8	22.5	12.1	3,500	770	300
	2.5	7/0.67	2.01	0.8	1.8	24.5	7.41	3,500	1,005	300
	4	7/0.85	2.55	1.0	1.8	29.5	4.61	3,500	1,525	300
	6	7/1.04	3.12	1.0	1.8	33	3.08	3,500	2,050	300
25	1.5	7/0.53	1.59	0.8	1.8	25	12.1	3,500	920	300
	2.5	7/0.67	2.01	0.8	1.8	27.5	7.41	3,500	1,250	300
	4	7/0.85	2.55	1.0	1.9	34	4.61	3,500	1,920	300
30	1.5	7/0.53	1.59	0.8	1.8	26.5	12.1	3,500	1,070	300
	2.5	7/0.67	2.01	0.8	1.8	29	7.41	3,500	1,440	300
	4	7/0.85	2.55	1.0	1.9	36	4.61	3,500	2,220	300
40	1.5	7/0.53	1.59	0.8	1.8	29.5	12.1	3,500	1,335	300
	2.5	7/0.67	2.01	0.8	1.9	33	7.41	3,500	1,855	300
50	1.5	7/0.53	1.59	0.8	1.9	32.5	12.1	3,500	1,685	300
	2.5	7/0.67	2.01	0.8	2.0	36.5	7.41	3,500	2,295	300

WIRE & CABLE

0.6/1KV TRAY용 난연 전력용 케이블

0.6/1KV Tray Flame Retardant PVC Sheathed Power Cable(0.6/1KV TFR-CV)

● 용도

0.6/1KV의 전압회로에 사용하며 전기적, 물리적, 화학적 특성이 우수하며, PVC 피복 전력 케이블에 비하여 난연 특성이 우수하다.

● 구조

- 도 체 : 전기용 연동선 (원형, 원형 압축 연선)
- 절 연 체 : XLPE
- 선 심 구 분 : 착색 또는 색 테이프

선 심 수	색
2 심	흑, 백
3 심	흑, 백, 적
4 심	흑, 백, 적, 녹

- 피 복 체 : 난연성 염화 비닐 수지

● USE

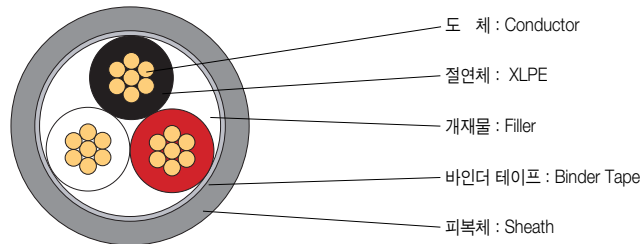
This cable is designed for the purpose of using in power distribution line, having excellent electrical, flame retardant.

● CONSTRUCTION

- Conductor : Annealed Copper Wire (Concentric circular, Compact circular)
- Insulation : XLPE
- Core Identification : Colouring Method or Color Tape

No. of Cores	Colour
2 Cores	Black, White
3 Cores	Black, White, Red
4 Cores	Black, White, Red, Green

- Sheath : Flame Retardant PVC



단심 - Single Core

공칭단면적 Nominal Sectional Area mm ²	도체 Conductor 소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm	절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
1.5	7/0.53	1.59	0.7	1.4	6.3	12.1	3,500	60	300
2.5	7/0.67	2.01	0.7	1.4	6.7	7.41	3,500	75	300
4	7/0.85	2.55	0.7	1.4	7.2	4.61	3,500	95	300
6	7/1.04	3.12	0.7	1.4	7.8	3.08	3,500	115	300
10	7/1.35	4.05	0.7	1.4	9.4	1.83	3,500	160	300
16	C.C	4.7	0.7	1.4	10	1.15	3,500	220	300
25	C.C	5.9	0.9	1.4	12	0.727	3,500	320	300
35	C.C	6.9	0.9	1.4	13	0.524	3,500	420	300
50	C.C	8.1	1.0	1.4	14.5	0.387	3,500	565	300
70	C.C	9.8	1.1	1.4	16	0.268	3,500	750	300
95	C.C	11.4	1.1	1.5	18.5	0.193	3,500	1,005	300
120	C.C	12.9	1.2	1.5	20	0.153	3,500	1,260	300
150	C.C	14.4	1.4	1.6	22	0.124	3,500	1,560	300
185	C.C	15.9	1.6	1.6	24	0.0991	3,500	1,935	200
240	C.C	18.3	1.7	1.7	27	0.0754	3,500	2,455	200
300	C.C	20.5	1.8	1.8	30	0.0601	3,500	3,065	200
400	C.C	23.2	2.0	1.9	34	0.0470	3,500	3,995	150
500	C.C	26.4	2.2	2.0	37	0.0366	3,500	4,840	150
630	C.C	30.2	2.4	2.2	42	0.0283	3,500	6,540	150

0.6/1KV TRAY용 난연 전력용 케이블

KS C IEC 60502-1, 대용표준

0.6/1KV Tray Flame Retardant PVC Sheathed Power Cable(0.6/1KV TFR-CV)

2 심 - Two Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	11	12.1	3,500	130	300
2.5	7/0.67	2.01	0.7	1.8	12	7.41	3,500	160	300
4	7/0.85	2.55	0.7	1.8	13	4.61	3,500	210	300
6	7/1.04	3.12	0.7	1.8	14	3.08	3,500	260	300
10	7/1.35	4.05	0.7	1.8	17	1.83	3,500	365	300
16	C.C	4.7	0.7	1.8	18.5	1.15	3,500	490	300
25	C.C	5.9	0.9	1.8	22	0.727	3,500	720	300
35	C.C	6.9	0.9	1.8	24	0.524	3,500	940	300
50	C.C	8.1	1.0	1.8	27	0.387	3,500	1,255	300
70	C.C	9.8	1.1	1.8	31	0.268	3,500	1,665	300
95	C.C	11.4	1.1	1.9	35	0.193	3,500	2,220	300
120	C.C	12.9	1.2	2.0	38	0.153	3,500	2,770	300
150	C.C	14.4	1.4	2.2	43	0.124	3,500	3,440	300
185	C.C	15.9	1.6	2.3	47	0.0991	3,500	4,275	200
240	C.C	18.3	1.7	2.5	53	0.0754	3,500	5,540	200
300	C.C	20.5	1.8	2.6	58	0.0601	3,500	6,800	200

3 심 - Three Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3,500	155	300
2.5	7/0.67	2.01	0.7	1.8	12.5	7.41	3,500	190	300
4	7/0.85	2.55	0.7	1.8	13.5	4.61	3,500	255	300
6	7/1.04	3.12	0.7	1.8	14.5	3.08	3,500	330	300
10	7/1.35	4.05	0.7	1.8	18	1.83	3,500	470	300
16	C.C	4.7	0.7	1.8	19.5	1.15	3,500	650	300
25	C.C	5.9	0.9	1.8	23	0.727	3,500	970	300
35	C.C	6.9	0.9	1.8	25	0.524	3,500	1,280	300
50	C.C	8.1	1.0	1.8	29	0.387	3,500	1,725	300
70	C.C	9.8	1.1	1.9	33	0.268	3,500	2,320	300
95	C.C	11.4	1.1	2.0	37	0.193	3,500	3,105	300
120	C.C	12.9	1.2	2.1	41	0.153	3,500	3,890	300
150	C.C	14.4	1.4	2.3	46	0.124	3,500	4,835	300
185	C.C	15.9	1.6	2.4	50	0.0991	3,500	6,030	200
240	C.C	18.3	1.7	2.6	57	0.0754	3,500	7,670	200
300	C.C	20.5	1.8	2.7	62	0.0601	3,500	9,575	200

WIRE & CABLE

0.6/1KV TRAY용 난연 전력용 케이블

0.6/1KV Tray Flame Retardant PVC Sheathed Power Cable(0.6/1KV TFR-CV)

4 심 - Four Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	3,500	180	300
2.5	7/0.67	2.01	0.7	1.8	13.5	7.41	3,500	235	300
4	7/0.85	2.55	0.7	1.8	14.5	4.61	3,500	305	300
6	7/1.04	3.12	0.7	1.8	16	3.08	3,500	405	300
10	7/1.35	4.05	0.7	1.8	20	1.83	3,500	590	300
16	C.C	4.7	0.7	1.8	22	1.15	3,500	820	300
25	C.C	5.9	0.9	1.8	26	0.727	3,500	1,245	300
35	C.C	6.9	0.9	1.8	28	0.524	3,500	1,645	300
50	C.C	8.1	1.0	1.9	32	0.387	3,500	2,240	300
70	C.C	9.8	1.1	2.0	36	0.268	3,500	3,020	300
95	C.C	11.4	1.1	2.1	42	0.193	3,500	4,060	300
120	C.C	12.9	1.2	2.3	46	0.153	3,500	5,105	300
150	C.C	14.4	1.4	2.4	51	0.124	3,500	6,345	300
185	C.C	15.9	1.6	2.6	56	0.0991	3,500	7,930	200
240	C.C	18.3	1.7	2.8	63	0.0754	3,500	10,060	200
300	C.C	20.5	1.8	3.0	70	0.0601	3,500	12,600	200

주 : C.C ; 원형 압축(Compact Circular)

6/10KV Tray Flame Retardant PVC Sheathed Power Cable(6/10KV TFR-CV)

● 용도

6/10KV의 전력회로에 사용하며 전기적, 물리적, 화학적 특성이 우수하며, PVC 피복 전력 케이블에 비하여 난연 특성이 우수하다.

● USE

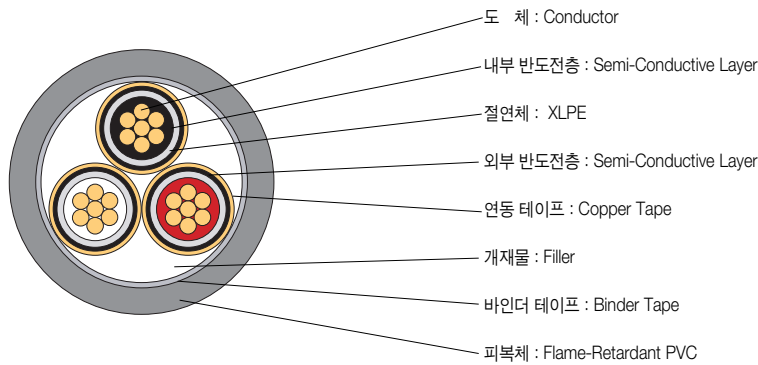
This cable is designed for the purpose of using in power distribution line, having excellent electrical, flame retardant,

● 구조

- 도체 : 전기용 연동선 (원형 압축)
- 절연체 : XLPE
- 선심식별 : 흑색, 백색, 적색
- 차폐 : 연동 테이프
- 피복체 : 난연성 염화 비닐 수지

● CONSTRUCTION

- Conductor : Annealed Copper Wire (Compact circular)
- Insulation : XLPE
- Core Identification : Black, White, Red
- Shield : Copper Tape
- Sheath : Flame Retardant PVC



단심 - Single Core

공칭단면적 Nominal Sectional Area mm ²	도체 Conductor 소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm	절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage KV/5min	중량 Approx. Weight kg/km	표준길이 Standard Length m
16	C.C	4.7	3.4	1.5	20	1.150	21	460	300
25	C.C	5.9	3.4	1.5	21	0.727	21	575	300
35	C.C	6.9	3.4	1.6	22	0.524	21	710	300
50	C.C	8.1	3.4	1.6	23	0.387	21	835	300
70	C.C	9.8	3.4	1.7	25	0.268	21	1,075	300
95	C.C	11.4	3.4	1.7	27	0.193	21	1,350	300
120	C.C	12.9	3.4	1.8	28	0.153	21	1,625	300
150	C.C	14.4	3.4	1.8	30	0.124	21	1,925	300
185	C.C	15.9	3.4	1.9	32	0.0991	21	2,325	300
240	C.C	18.3	3.4	2.0	35	0.0754	21	2,880	300
300	C.C	20.5	3.4	2.0	37	0.0601	21	3,495	300
400	C.C	23.2	3.4	2.2	40	0.0470	21	4,480	300
500	C.C	26.4	3.4	2.2	43	0.0366	21	5,705	300
630	C.C	30.2	3.4	2.3	48	0.0283	21	7,025	300

WIRE & CABLE

6/10KV TRAY용 난연 전력 케이블

6/10KV Tray Flame Retardant PVC Sheathed Power Cable(6/10KV TFR-CV)

3심 - Three Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage KV/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
16	C.C	4.7	3.4	2.1	39	1.150	21	1,490	300
25	C.C	5.9	3.4	2.2	41	0.727	21	1,865	300
35	C.C	6.9	3.4	2.3	43	0.524	21	2,270	300
50	C.C	8.1	3.4	2.4	46	0.387	21	2,810	300
70	C.C	9.8	3.4	2.5	50	0.268	21	3,465	300
95	C.C	11.4	3.4	2.6	53	0.193	21	4,345	300
120	C.C	12.9	3.4	2.7	57	0.153	21	5,225	300
150	C.C	14.4	3.4	2.8	60	0.124	21	5,445	300
185	C.C	15.9	3.4	2.9	64	0.0991	21	7,415	300
240	C.C	18.3	3.4	3.1	69	0.0754	21	8,450	300
300	C.C	20.5	3.4	3.3	74	0.0601	21	11,015	300

3중 - Triplex

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage KV/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
16	C.C	4.7	3.4	1.5	44	1.150	21	1,395	300
25	C.C	5.9	3.4	1.5	46	0.727	21	1,740	300
35	C.C	6.9	3.4	1.6	48	0.524	21	2,150	300
50	C.C	8.1	3.4	1.6	50	0.387	21	2,530	300
70	C.C	9.8	3.4	1.7	54	0.268	21	3,250	300
95	C.C	11.4	3.4	1.7	58	0.193	21	4,080	300
120	C.C	12.9	3.4	1.8	61	0.153	21	4,915	300
150	C.C	14.4	3.4	1.8	65	0.124	21	5,820	300
185	C.C	15.9	3.4	1.9	70	0.0991	21	7,030	300
240	C.C	18.3	3.4	2.0	76	0.0754	21	8,710	300
300	C.C	20.5	3.4	2.0	80	0.0601	21	10,565	300

주 : C,C ; 원형 압축(Compact Circular)

8.7/15KV 가교 폴리에틸렌 케이블

8.7/15KV CU/XLPE/PVC (8.7/15KV CV, 8.7/15KV AL-CV)

공칭단면적 Nominal Sectional Area mm ²	절연체두께 Thickness of Insulation mm	피복두께 Thickness of Oversheath mm		완선외경 Approx. Overall Diameter mm		중량 Approx. Weight kg/km	
		1C	3C	1C	3C	1C	3C
25	4.5	1.6	2.4	22	45	670 (520)	2280 (1810)
35	4.5	1.7	2.4	24	47	800 (590)	2680 (2030)
50	4.5	1.7	2.5	25	50	950 (660)	3190 (2290)
70	4.5	1.7	2.7	27	54	1190 (770)	4030 (2740)
95	4.5	1.8	2.8	28	58	1490 (900)	5000 (3210)
120	4.5	1.9	2.9	30	61	1790 (1030)	5930 (3660)
150	4.5	1.9	3.0	32	64	2080 (1150)	6920 (4110)
185	4.5	2.0	3.1	33	68	2490 (1330)	8190 (4680)
240	4.5	2.0	3.3	36	76	3130 (1590)	9880 (5720)
300	4.5	2.1	3.4	39	80	3790 (1850)	12470 (6610)
400	4.5	2.2	--	43	--	4670 (2200)	-- --
500	4.5	2.3	--	45	--	5800 (2630)	-- --
630	4.5	2.4	--	50	--	7390 (3290)	-- --
800	4.5	2.5	--	54	--	9180 (3930)	-- --
1000	4.5	2.6	--	58	--	11310 (4720)	-- --

* () : Weight of Aluminum Conductor Cable

12/20KV 가교 폴리에틸렌 케이블

12/20KV CU/XLPE/PVC (12/20KV CV, 12/20KV AL-CV)

공칭단면적 Nominal Sectional Area mm ²	절연체두께 Thickness of Insulation mm	피복두께 Thickness of Oversheath mm		완선외경 Approx. Overall Diameter mm		중량 Approx. Weight kg/km	
		1C	3C	1C	3C	1C	3C
35	5.5	1.7	2.6	26	53	910 (700)	3170 (2520)
50	5.5	1.8	2.7	28	56	1050 (790)	3550 (2800)
70	5.5	1.8	2.8	29	59	1300 (900)	4350 (3240)
95	5.5	1.9	3.0	30	63	1600 (1050)	5360 (3730)
120	5.5	1.9	3.1	33	66	1880 (1170)	6270 (4200)
150	5.5	2.0	3.2	34	69	2200 (1310)	7370 (4700)
185	5.5	2.1	3.3	36	73	2600 (1480)	8590 (5300)
240	5.5	2.1	3.4	39	78	3180 (1770)	10600 (6390)
300	5.5	2.2	3.6	41	87	3960 (2040)	13300 (7250)
400	5.5	2.3	--	45	--	4910 (2410)	-- --
500	5.5	2.4	--	48	--	5950 (2860)	-- --
630	5.5	2.5	--	51	--	7310 (3540)	-- --
800	5.5	2.6	--	53	--	9130 (4190)	-- --
1000	5.5	2.7	--	57	--	11250 (4950)	-- --

WIRE & CABLE

18/30KV 가교 폴리에틸렌 케이블

18/30KV CU/XLPE/PVC (18/30KV CV, 18/30KV AL-CV)

공칭단면적 Nominal Sectional Area mm ²	절연체두께 Thickness of Insulation mm	피복두께 Thickness of Oversheath mm		완선외경 Approx. Overall Diameter mm		중량 Approx. Weight kg/km	
		1C	3C	1C	3C	1C	3C
50	8.0	2.0	3.1	34	68	1360 (960)	4700 (4310)
70	8.0	2.1	3.2	36	72	1610 (1090)	5570 (4830)
95	8.0	2.1	3.3	38	76	1910 (1240)	6600 (5330)
120	8.0	2.1	3.4	40	79	2140 (1360)	7570 (5970)
150	8.0	2.2	3.6	41	83	2540 (1510)	8760 (6530)
185	8.0	2.2	3.7	43	86	2930 (1680)	10060 (7230)
240	8.0	2.3	3.8	46	91	3560 (1980)	12800 (8460)
300	8.0	2.4	4.0	48	98	4280 (2250)	15400 (9490)
400	8.0	2.5	--	51	--	5350 (2640)	-- --
500	8.0	2.6	--	55	--	6430 (3090)	-- --
630	8.0	2.7	--	60	--	7810 (3650)	-- --
800	8.0	2.8	--	64	--	9670 (4310)	-- --
1000	8.0	3.0	--	68	--	11900 (5120)	-- --

0.6/1KV 화재 경보용 내열전선, 0.6/1KV TRAY 소방용 내화전선

0.6/1KV Tray Heat-Resistant Cable(0.6/1KV TFR-3, NFR-3)

대용표준 KS C IEC 60502-1

0.6/1KV Tray Fire-Proof Cable(0.6/1KV TFR-8, NFR-8)

● 용도

100V 이하의 비상 경보설비의 신호 및 통신용으로 사용하거나 정격전압 0.6/1KV 이하의 옥내 소화전 설비의 회로에 사용하는 케이블이다.

● USE

TFR-3 is used in signaling or telecommunication under D.C 100V fire fighting equipments, and FR-8 is used mainly in wiring of fireplugsystem under 0.6/1KV grade.

● 구조

- 도 체 : 전기용 연동선 (원형, 원형 압축 연선)
- 내 화 층 : 내화 테이프 (0.6/1KV TFR-8, NFR-8)
- 절 연 체 : XLPE, PE
- 선 심 식 별 : 착색 또는 색 테이프

● CONSTRUCTION

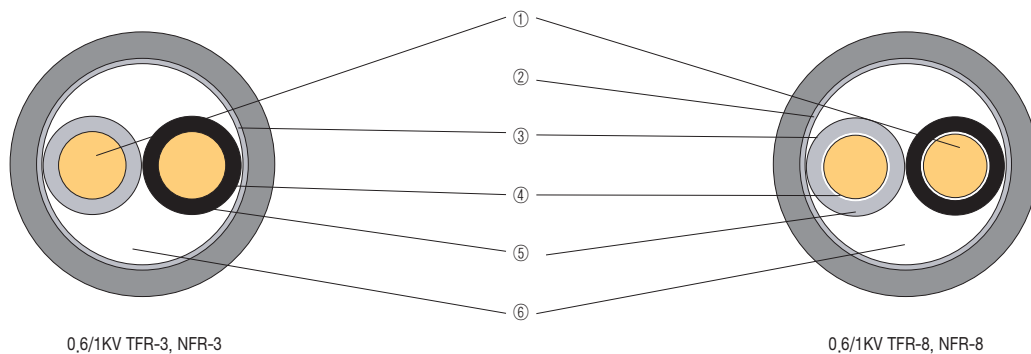
- Conductor : Annealed Copper Wire (Concentric Circular, Compact circular)
- Fire Retardant Layer : Fire Retardant Tape (0.6/1KV TFR-8, NFR-8)
- Insulation : XLPE, PE
- Core Identification : Colouring Method or Color Tape

선 심 수	색
2 심	흑, 백
3 심	흑, 백, 적
4 심	흑, 백, 적, 녹
5 심	흑, 백, 적, 녹, 황

No. of Cores	Colour
2 Cores	Black, White
3 Cores	Black, White, Red
4 Cores	Black, White, Red, Green
5 Cores	Black, White, Red, Green, Yellow

- 피 복 체 : 난연성 염화 비닐 수지
- 5 심 이 상 : Numbering

- Sheath : Flame Retardant PVC
- Up To 5 : Numbering



- ① 도 체 : Conductor
- ② 내화층 : Flame Retardant layer
- ③ 절연체 : Insulation
- ④ 개재물 : Filler
- ⑤ 내열 보강층 : Heat Retardant layer
- ⑥ 피복체 : Sheath

WIRE & CABLE

0.6/1KV TRAY 화재 경보용 내열전선

0.6/1KV Tray Heat-Resistant Cable(0.6/1KV TFR-3, NFR-3)

0.6/1KV TFR-3, NFR-3(단선)

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage Kv	중 량 Approx. Weight kg/km	표준길이 Standard Length m
	공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
2	1.5	1/1.38	1.38	0.7	1.8	11	12.1	3.5	124	300
	2.5	1/1.78	1.78	0.7	1.8	11.5	7.41	3.5	154	300
	4	1/2.25	2.25	0.7	1.8	12.5	4.61	3.5	195	300
3	1.5	1/1.38	1.38	0.7	1.8	11	12.1	3.5	144	300
	2.5	1/1.78	1.78	0.7	1.8	12	7.41	3.5	183	300
	4	1/2.25	2.25	0.7	1.8	13	4.61	3.5	240	300
4	1.5	1/1.38	1.38	0.7	1.8	12	12.1	3.5	172	300
	2.5	1/1.78	1.78	0.7	1.8	13	7.41	3.5	221	300
	4	1/2.25	2.25	0.7	1.8	14	4.61	3.5	291	300
5	1.5	1/1.38	1.38	0.7	1.8	13	12.1	3.5	201	300
	2.5	1/1.78	1.78	0.7	1.8	14	7.41	3.5	262	300
	4	1/2.25	2.25	0.7	1.8	15	4.61	3.5	347	300
6	1.5	1/1.38	1.38	0.7	1.8	13.5	12.1	3.5	222	300
	2.5	1/1.78	1.78	0.7	1.8	15	7.41	3.5	303	300
	4	1/2.25	2.25	0.7	1.8	16	4.61	3.5	405	300
7	1.5	1/1.38	1.38	0.7	1.8	13.5	12.1	3.5	236	300
	2.5	1/1.78	1.78	0.7	1.8	15	7.41	3.5	325	300
	4	1/2.25	2.25	0.7	1.8	16	4.61	3.5	440	300
8	1.5	1/1.38	1.38	0.7	1.8	14.5	12.1	3.5	266	300
	2.5	1/1.78	1.78	0.7	1.8	16	7.41	3.5	358	300
	4	1/2.25	2.25	0.7	1.8	17.5	4.61	3.5	501	300
10	1.5	1/1.38	1.38	0.7	1.8	16.5	12.1	3.5	325	300
	2.5	1/1.78	1.78	0.7	1.8	18	7.41	3.5	442	300
	4	1/2.25	2.25	0.7	1.8	20	4.61	3.5	607	300
12	1.5	1/1.38	1.38	0.7	1.8	17	12.1	3.5	364	300
	2.5	1/1.78	1.78	0.7	1.8	18.5	7.41	3.5	498	300
	4	1/2.25	2.25	0.7	1.8	21	4.61	3.5	693	300
15	1.5	1/1.38	1.38	0.7	1.8	18	12.1	3.5	431	300
	2.5	1/1.78	1.78	0.7	1.8	20	7.41	3.5	603	300
	4	1/2.25	2.25	0.7	1.8	22	4.61	3.5	839	300
20	1.5	1/1.38	1.38	0.7	1.8	20	12.1	3.5	542	300
	2.5	1/1.78	1.78	0.7	1.8	22	7.41	3.5	757	300
	4	1/2.25	2.25	0.7	1.8	25	4.61	3.5	1,078	300
25	1.5	1/1.38	1.38	0.7	1.8	22	12.1	3.5	652	300
	2.5	1/1.78	1.78	0.7	1.8	25	7.41	3.5	923	300
	4	1/2.25	2.25	0.7	1.8	28	4.61	3.5	1,312	300
30	1.5	1/1.38	1.38	0.7	1.8	24	12.1	3.5	754	300
	2.5	1/1.78	1.78	0.7	1.8	26	7.41	3.5	1,074	300
	4	1/2.25	2.25	0.7	1.8	29	4.61	3.5	1,534	300

주) 1. 개산무게는 약간의 차이가 있을 수 있습니다.
2. TFR-3, NFR-3의 구조는 동일합니다.

0.6/1KV TRAY 화재 경보용 내열전선

0.6/1KV Tray Heat-Resistant Cable(0.6/1KV TFR-3, NFR-3)

0.6/1KV TFR-3, NFR-3

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max. Conductor Resistance at 20℃	시험전압 Test Voltage	중량 Approx. Weight	표준길이 Standard Length
	공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter							
Single	1.5	7/0.53	1.59	0.7	1.8	6.5	12.1	3,500	60	300
	2.5	7/0.67	2.01	0.7	1.8	7	7.41	3,500	75	300
	4	7/0.85	2.55	0.7	1.8	7.5	4.61	3,500	95	300
	6	7/1.04	3.12	0.7	1.8	8	3.08	3,500	115	300
	10	7/1.35	4.05	0.7	1.8	10	1.83	3,500	160	300
2	1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3,500	145	300
	2.5	7/0.67	2.01	0.7	1.8	12.5	7.41	3,500	175	300
	4	7/0.85	2.55	0.7	1.8	14.5	4.61	3,500	240	300
	6	7/1.04	3.12	0.7	1.8	15.5	3.08	3,500	295	300
	10	7/1.35	4.05	0.7	1.8	17.5	1.83	3,500	410	300
3	1.5	7/0.53	1.59	0.7	1.8	12	12.1	3,500	170	300
	2.5	7/0.67	2.01	0.7	1.8	13	7.41	3,500	215	300
	4	7/0.85	2.55	0.7	1.8	15.5	4.61	3,500	300	300
	6	7/1.04	3.12	0.7	1.8	16.5	3.08	3,500	375	300
	10	7/1.35	4.05	0.7	1.8	18.5	1.83	3,500	530	300
4	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3,500	205	300
	2.5	7/0.67	2.01	0.7	1.8	14	7.41	3,500	255	300
	4	7/0.85	2.55	0.7	1.8	16.5	4.61	3,500	365	300
	6	7/1.04	3.12	0.7	1.8	18	3.08	3,500	465	300
	10	7/1.35	4.05	0.7	1.8	20	1.83	3,500	665	300
5	1.5	7/0.53	1.59	0.7	1.8	14	12.1	3,500	240	300
	2.5	7/0.67	2.01	0.7	1.8	15.5	7.41	3,500	305	300
	4	7/0.85	2.55	0.7	1.8	18	4.61	3,500	430	300
	6	7/1.04	3.12	0.7	1.8	19.5	3.08	3,500	560	300
	10	7/1.35	4.05	0.7	1.8	22	1.83	3,500	810	300
6	1.5	7/0.53	1.59	0.7	1.8	15	12.1	3,500	275	300
	2.5	7/0.67	2.01	0.7	1.8	16.5	7.41	3,500	350	300
	4	7/0.85	2.55	0.7	1.8	19	4.61	3,500	505	300
	6	7/1.04	3.12	0.7	1.8	21	3.08	3,500	660	300
	10	7/1.35	4.05	0.7	1.8	24	1.83	3,500	950	300
7	1.5	7/0.53	1.59	0.7	1.8	15	12.1	3,500	295	300
	2.5	7/0.67	2.01	0.7	1.8	16.5	7.41	3,500	380	300
	4	7/0.85	2.55	0.7	1.8	19	4.61	3,500	550	300
	6	7/1.04	3.12	0.7	1.8	21	3.08	3,500	720	300
	10	7/1.35	4.05	0.7	1.8	24	1.83	3,500	1,045	300
8	1.5	7/0.53	1.59	0.7	1.8	16	12.1	3,500	325	300
	2.5	7/0.67	2.01	0.7	1.8	17.5	7.41	3,500	430	300
	4	7/0.85	2.55	0.7	1.8	20.5	4.61	3,500	625	300
	6	7/1.04	3.12	0.7	1.8	22.5	3.08	3,500	815	300
	10	7/1.35	4.05	0.7	1.8	25.5	1.83	3,500	1,200	300
10	1.5	7/0.53	1.59	0.7	1.8	18.5	12.1	3,500	410	300
	2.5	7/0.67	2.01	0.7	1.8	20	7.41	3,500	535	300
	4	7/0.85	2.55	0.7	1.8	24	4.61	3,500	795	300
	6	7/1.04	3.12	0.7	1.8	26.5	3.08	3,500	1,035	300
	10	7/1.35	4.05	0.7	1.8	30	1.83	3,500	1,520	300
12	1.5	7/0.53	1.59	0.7	1.8	19	12.1	3,500	460	300
	2.5	7/0.67	2.01	0.7	1.8	20.5	7.41	3,500	605	300
	4	7/0.85	2.55	0.7	1.8	25	4.61	3,500	895	300
	6	7/1.04	3.12	0.7	1.8	27	3.08	3,500	1,195	300
	10	7/1.35	4.05	0.7	1.8	31.5	1.83	3,500	1,765	300
15	1.5	7/0.53	1.59	0.7	1.8	20.5	12.1	3,500	535	300
	2.5	7/0.67	2.01	0.7	1.8	22	7.41	3,500	705	300
	4	7/0.85	2.55	0.7	1.8	26.5	4.61	3,500	1,085	300
	6	7/1.04	3.12	0.7	1.8	29.5	3.08	3,500	1,435	300
20	1.5	7/0.53	1.59	0.7	1.8	22.5	12.1	3,500	675	300
	2.5	7/0.67	2.01	0.7	1.8	24.5	7.41	3,500	905	300
	4	7/0.85	2.55	0.7	1.8	29.5	4.61	3,500	1,385	300
	6	7/1.04	3.12	0.7	1.8	33	3.08	3,500	1,850	300
25	1.5	7/0.53	1.59	0.7	1.8	25	12.1	3,500	815	300
	2.5	7/0.67	2.01	0.7	1.8	27.5	7.41	3,500	1,120	300
	4	7/0.85	2.55	0.7	1.8	34	4.61	3,500	1,710	300
30	1.5	7/0.53	1.59	0.7	1.8	26.5	12.1	3,500	945	300
	2.5	7/0.67	2.01	0.7	1.8	29	7.41	3,500	1,305	300
	4	7/0.85	2.55	0.7	1.8	36	4.61	3,500	1,995	300

WIRE & CABLE

0.6/1KV TRAY 소방용 내화전선

0.6/1KV Tray Fire-Proof Cable(0.6/1KV TFR-8, NFR-8)

0.6/1KV TFR-8, NFR-8 (단심 - Single Core)

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.4	7	12.1	3,500	60	300
2.5	7/0.67	2.01	0.7	1.4	7.5	7.41	3,500	75	300
4	7/0.85	2.55	0.7	1.4	8	4.61	3,500	95	300
6	7/1.04	3.12	0.7	1.4	9	3.08	3,500	115	300
10	7/1.35	4.05	0.7	1.4	10	1.83	3,500	160	300
16	C.C	4.7	0.7	1.4	11	1.15	3,500	220	300
25	C.C	5.9	0.9	1.4	13	0.727	3,500	320	300
35	C.C	6.9	0.9	1.4	14	0.524	3,500	420	300
50	C.C	8.1	1.0	1.4	15	0.387	3,500	565	300
70	C.C	9.8	1.1	1.4	17	0.268	3,500	750	300
95	C.C	11.4	1.1	1.5	19	0.193	3,500	1,005	300
120	C.C	12.9	1.2	1.5	21	0.153	3,500	1,260	300
150	C.C	14.4	1.4	1.6	23	0.124	3,500	1,560	300
185	C.C	15.9	1.6	1.6	25	0.0991	3,500	1,935	200
240	C.C	18.3	1.7	1.7	28	0.0754	3,500	2,455	200
300	C.C	20.5	1.8	1.8	30	0.0601	3,500	3,065	200
400	C.C	23.2	2.0	1.9	34	0.0470	3,500	3,995	150
500	C.C	26.4	2.2	2.0	38	0.0366	3,500	4,840	150
630	C.C	30.2	2.4	2.2	42	0.0283	3,500	6,540	150

2 심 - Two Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	3,500	130	300
2.5	7/0.67	2.01	0.7	1.8	13	7.41	3,500	160	300
4	7/0.85	2.55	0.7	1.8	15	4.61	3,500	210	300
6	7/1.04	3.12	0.7	1.8	16	3.08	3,500	260	300
10	7/1.35	4.05	0.7	1.8	18	1.83	3,500	365	300
16	C.C	4.7	0.7	1.8	19	1.15	3,500	490	300
25	C.C	5.9	0.9	1.8	22	0.727	3,500	720	300
35	C.C	6.9	0.9	1.8	24	0.524	3,500	940	300
50	C.C	8.1	1.0	1.8	27	0.387	3,500	1,255	300
70	C.C	9.8	1.1	1.8	31	0.268	3,500	1,665	300
95	C.C	11.4	1.1	1.9	35	0.193	3,500	2,220	300
120	C.C	12.9	1.2	2.0	38	0.153	3,500	2,770	300
150	C.C	14.4	1.4	2.2	42	0.124	3,500	3,440	300
185	C.C	15.9	1.6	2.3	47	0.0991	3,500	4,275	200
240	C.C	18.3	1.7	2.5	52	0.0754	3,500	5,454	200
300	C.C	20.5	1.8	2.6	57	0.0601	3,500	6,800	200

0.6/1KV TRAY 소방용 내화전선

0.6/1KV Tray Fire-Proof Cable(0.6/1KV TFR-8, NFR-8)

3 심 - Three Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	13	12.1	3,500	155	300
2.5	7/0.67	2.01	0.7	1.8	14	7.41	3,500	190	300
4	7/0.85	2.55	0.7	1.8	15	4.61	3,500	255	300
6	7/1.04	3.12	0.7	1.8	16	3.08	3,500	330	300
10	7/1.35	4.05	0.7	1.8	19	1.83	3,500	470	300
16	C.C	4.7	0.7	1.8	20	1.15	3,500	650	300
25	C.C	5.9	0.9	1.8	23	0.727	3,500	970	300
35	C.C	6.9	0.9	1.8	26	0.524	3,500	1,280	300
50	C.C	8.1	1.0	1.8	29	0.387	3,500	1,725	300
70	C.C	9.8	1.1	1.9	33	0.268	3,500	2,320	300
95	C.C	11.4	1.1	2.0	37	0.193	3,500	3,105	300
120	C.C	12.9	1.2	2.1	41	0.153	3,500	3,890	300
150	C.C	14.4	1.4	2.3	45	0.124	3,500	4,835	300
185	C.C	15.9	1.6	2.4	50	0.0991	3,500	6,030	200
240	C.C	18.3	1.7	2.6	56	0.0754	3,500	7,670	200
300	C.C	20.5	1.8	2.7	61	0.0601	3,500	9,575	200

4 심 - Four Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	14	12.1	3,500	180	300
2.5	7/0.67	2.01	0.7	1.8	15	7.41	3,500	235	300
4	7/0.85	2.55	0.7	1.8	16	4.61	3,500	305	300
6	7/1.04	3.12	0.7	1.8	18	3.08	3,500	405	300
10	7/1.35	4.05	0.7	1.8	20	1.83	3,500	590	300
16	C.C	4.7	0.7	1.8	22	1.15	3,500	820	300
25	C.C	5.9	0.9	1.8	26	0.727	3,500	1,245	300
35	C.C	6.9	0.9	1.8	28	0.524	3,500	1,645	300
50	C.C	8.1	1.0	1.9	32	0.387	3,500	2,240	300
70	C.C	9.8	1.1	2.0	37	0.268	3,500	3,020	300
95	C.C	11.4	1.1	2.1	41	0.193	3,500	4,060	300
120	C.C	12.9	1.2	2.3	45	0.153	3,500	5,105	300
150	C.C	14.4	1.4	2.4	50	0.124	3,500	6,345	300
185	C.C	15.9	1.6	2.6	55	0.0991	3,500	7,930	200
240	C.C	18.3	1.7	2.8	62	0.0754	3,500	10,060	200
300	C.C	20.5	1.8	3.0	68	0.0601	3,500	12,600	200

* C.C : 원형 압축(compact Circular)

0.6/1KV XLPE Insulated halogen Free Flame Retardant Poly-Olefin
Sheathed Control Cables(0.6/1KV HF-CCO)

● 용도

발전소, 변전소 등의 정격전압 0.6/1KV 이하의 원격 제어용 회로에 적합한 케이블로서 PVC 피복 제어 케이블에 비하여 난연 특수성이 우수하고 저독성으로 독소가스가 발생치 않는다.

● 구조

- 도 체 : 전기용 연동선 (단선, 원형 연선)
- 절 연 체 : XLPE
- 선 심 식 별 : 착색 또는 색 테이프

선 심 수	색
2 심	흑, 백
3 심	흑, 백, 적
4 심	흑, 백, 적, 녹

* 번호 표시에 의한 식별

- 피 복 체 : 저독성 난연 폴리올레핀

● USE

This cable is designed for the purpose of using in remote control system in power plant and substn, having excellent flame retardant

● CONSTRUCTION

- Conductor : Annealed Copper Wire (Solid, Concentric Circular)
- Insulation : XLPE
- Core Identification : Colouring Method or Color Tape

No. of Cores	Colour
2 Cores	Black, White
3 Cores	Black, White, Red
4 Cores	Black, White, Red, Green

* Numbering Method

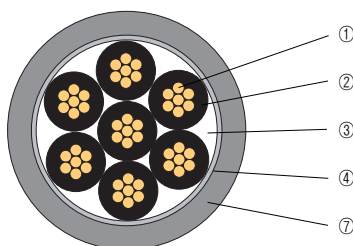
- Sheath : Halogen Free Flame Retardant Poly-Olefin

● 종류 및 기호

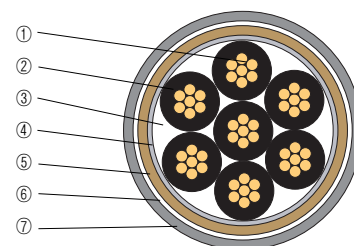
종 류	기 호
0.6/1KV 저독성 난연 제어용 케이블 - 동테이프 차폐 케이블	0.6/1KV HF-CCO 0.6/1KV HF-CCO-S

● Classes & Symbols

No. of Cores	Symbol
0.6/1KV XLPE Insulated Halogen Free Flame Retardant Poly-Olefin Sheathed Control Cable - Copper Tape Shield	0.6/1KV HF-CCO 0.6/1KV HF-CCO-S



0.6/1KV HF-CCO



0.6/1KV HF-CCO-S

- ① 도 체 : Conductor
- ② 절연체 : Insulation
- ③ 개재물 : Filler
- ④ 바인더 테이프 : Binder Tape
- ⑤ 차폐층 : Shield (Copper Tape, Shield Braid)
- ⑥ 바인더 테이프 : Binder Tape
- ⑦ 피복체 : Halogen Free Flame retardant Poly-Olefin

0.6/1KV 저독성 난연 제어용 케이블

KS C IEC 60502-1, 대용표준

0.6/1KV XLPE Insulated halogen Free Flame Retardant Poly-Olefin Sheathed Control Cables(0.6/1KV HF-CCO)

0.6/1KV HF-CCO

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
	공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
2	1.5	7/0.53	1.59	0.7	1.8	10.5	12.1	3,500	145	300
	2.5	7/0.67	2.01	0.7	1.8	11.5	7.41	3,500	175	300
	4	7/0.85	2.55	0.7	1.8	12.5	4.61	3,500	240	300
	6	7/1.04	3.12	0.7	1.8	13.5	3.08	3,500	295	300
	10	7/1.35	4.05	0.7	1.8	15.5	1.83	3,500	410	300
3	1.5	7/0.53	1.59	0.7	1.8	11	12.1	3,500	170	300
	2.5	7/0.67	2.01	0.7	1.8	12	7.41	3,500	215	300
	4	7/0.85	2.55	0.7	1.8	13	4.61	3,500	300	300
	6	7/1.04	3.12	0.7	1.8	14.5	3.08	3,500	375	300
	10	7/1.35	4.05	0.7	1.8	16.4	1.83	3,500	530	300
4	1.5	7/0.53	1.59	0.7	1.8	11.4	12.1	3,500	205	300
	2.5	7/0.67	2.01	0.7	1.8	13	7.41	3,500	255	300
	4	7/0.85	2.55	0.7	1.8	14.5	4.61	3,500	365	300
	6	7/1.04	3.12	0.7	1.8	15.5	3.08	3,500	465	300
	10	7/1.35	4.05	0.7	1.8	18	1.83	3,500	665	300
5	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3,500	240	300
	2.5	7/0.67	2.01	0.7	1.8	14	7.41	3,500	305	300
	4	7/0.85	2.55	0.7	1.8	15.5	4.61	3,500	430	300
	6	7/1.04	3.12	0.7	1.8	17	3.08	3,500	560	300
	10	7/1.35	4.05	0.7	1.8	19.5	1.83	3,500	810	300
6	1.5	7/0.53	1.59	0.7	1.8	13.5	12.1	3,500	275	300
	2.5	7/0.67	2.01	0.7	1.8	15	7.41	3,500	350	300
	4	7/0.85	2.55	0.7	1.8	16.5	4.61	3,500	505	300
	6	7/1.04	3.12	0.7	1.8	18.5	3.08	3,500	660	300
	10	7/1.35	4.05	0.7	1.8	21	1.83	3,500	950	300
7	1.5	7/0.53	1.59	0.7	1.8	13.5	12.1	3,500	295	300
	2.5	7/0.67	2.01	0.7	1.8	15	7.41	3,500	380	300
	4	7/0.85	2.55	0.7	1.8	16.5	4.61	3,500	550	300
	6	7/1.04	3.12	0.7	1.8	18.5	3.08	3,500	720	300
	10	7/1.35	4.05	0.7	1.8	21	1.83	3,500	1,045	300
8	1.5	7/0.53	1.59	0.7	1.8	14.5	12.1	3,500	325	300
	2.5	7/0.67	2.01	0.7	1.8	16	7.41	3,500	430	300
	4	7/0.85	2.55	0.7	1.8	18	4.61	3,500	625	300
	6	7/1.04	3.12	0.7	1.8	20	3.08	3,500	815	300
	10	7/1.35	4.05	0.7	1.8	23	1.83	3,500	1,200	300
10	1.5	7/0.53	1.59	0.7	1.8	16.5	12.1	3,500	410	300
	2.5	7/0.67	2.01	0.7	1.8	18.5	7.41	3,500	535	300
	4	7/0.85	2.55	0.7	1.8	21	4.61	3,500	795	300
	6	7/1.04	3.12	0.7	1.8	23	3.08	3,500	1,035	300
	10	7/1.35	4.05	0.7	1.8	27	1.83	3,500	1,520	300
12	1.5	7/0.53	1.59	0.7	1.8	17	12.1	3,500	460	300
	2.5	7/0.67	2.01	0.7	1.8	19	7.41	3,500	605	300
	4	7/0.85	2.55	0.7	1.8	22	4.61	3,500	895	300
	6	7/1.04	3.12	0.7	1.8	24	3.08	3,500	1,195	300
	10	7/1.35	4.05	0.7	1.8	28	1.83	3,500	1,765	300
15	1.5	7/0.53	1.59	0.7	1.8	18.5	12.1	3,500	535	300
	2.5	7/0.67	2.01	0.7	1.8	21	7.41	3,500	705	300
	4	7/0.85	2.55	0.7	1.8	23	4.61	3,500	1,085	300
	6	7/1.04	3.12	0.7	1.8	26	3.08	3,500	1,435	300
20	1.5	7/0.53	1.59	0.7	1.8	21	12.1	3,500	675	300
	2.5	7/0.67	2.01	0.7	1.8	23	7.41	3,500	905	300
	4	7/0.85	2.55	0.7	1.8	26	4.61	3,500	1,385	300
	6	7/1.04	3.12	0.7	1.8	29	3.08	3,500	1,850	300
25	1.5	7/0.53	1.59	0.7	1.8	22.5	12.1	3,500	815	300
	2.5	7/0.67	2.01	0.7	1.8	25.5	7.41	3,500	1,120	300
	4	7/0.85	2.55	0.7	1.9	28	4.61	3,500	1,710	300
30	1.5	7/0.53	1.59	0.7	1.8	24	12.1	3,500	945	300
	2.5	7/0.67	2.01	0.7	1.8	27	7.41	3,500	1,305	300
	4	7/0.85	2.55	0.7	1.9	31	4.61	3,500	1,995	300
40	1.5	7/0.53	1.59	0.7	1.8	28.5	12.1	3,500	1,200	300
	2.5	7/0.67	2.01	0.7	1.8	32	7.41	3,500	1,655	300
50	1.5	7/0.53	1.59	0.7	1.8	31.5	12.1	3,500	1,485	300
	2.5	7/0.67	2.01	0.7	1.9	35.5	7.41	3,500	2,055	300

WIRE & CABLE

0.6/1KV 저독성 난연 제어용 케이블

0.6/1KV XLPE Insulated halogen Free Flame Retardant Poly-Olefin Sheathed Control Cables(0.6/1KV HF-CCO)

0.6/1KV HF-CCO-S

심선수 No. of Cores	도체 Conductor			절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max. Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중량 Approx. Weight kg/km	표준길이 Standard Length m
	공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
2	1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3,500	175	300
	2.5	7/0.67	2.01	0.7	1.8	12.5	7.41	3,500	210	300
	4	7/0.85	2.55	0.7	1.8	14.5	4.61	3,500	280	300
	6	7/1.04	3.12	0.7	1.8	15.5	3.08	3,500	350	300
	10	7/1.35	4.05	0.7	1.8	17.5	1.83	3,500	470	300
3	1.5	7/0.53	1.59	0.7	1.8	12	12.1	3,500	205	300
	2.5	7/0.67	2.01	0.7	1.8	13	7.41	3,500	250	300
	4	7/0.85	2.55	0.7	1.8	15.5	4.61	3,500	350	300
	6	7/1.04	3.12	0.7	1.8	16.5	3.08	3,500	430	300
	10	7/1.35	4.05	0.7	1.8	18.5	1.83	3,500	595	300
4	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3,500	240	300
	2.5	7/0.67	2.01	0.7	1.8	14	7.41	3,500	295	300
	4	7/0.85	2.55	0.7	1.8	16.5	4.61	3,500	425	300
	6	7/1.04	3.12	0.7	1.8	18	3.08	3,500	525	300
	10	7/1.35	4.05	0.7	1.8	20	1.83	3,500	735	300
5	1.5	7/0.53	1.59	0.7	1.8	14	12.1	3,500	280	300
	2.5	7/0.67	2.01	0.7	1.8	15.5	7.41	3,500	355	300
	4	7/0.85	2.55	0.7	1.8	18	4.61	3,500	490	300
	6	7/1.04	3.12	0.7	1.8	19.5	3.08	3,500	630	300
	10	7/1.35	4.05	0.7	1.8	22	1.83	3,500	885	300
6	1.5	7/0.53	1.59	0.7	1.8	15	12.1	3,500	320	300
	2.5	7/0.67	2.01	0.7	1.8	16.5	7.41	3,500	405	300
	4	7/0.85	2.55	0.7	1.8	19	4.61	3,500	575	300
	6	7/1.04	3.12	0.7	1.8	21	3.08	3,500	735	300
	10	7/1.35	4.05	0.7	1.8	24	1.83	3,500	1,045	300
7	1.5	7/0.53	1.59	0.7	1.8	15	12.1	3,500	340	300
	2.5	7/0.67	2.01	0.7	1.8	16.5	7.41	3,500	435	300
	4	7/0.85	2.55	0.7	1.8	19	4.61	3,500	620	300
	6	7/1.04	3.12	0.7	1.8	21	3.08	3,500	795	300
	10	7/1.35	4.05	0.7	1.8	24	1.83	3,500	1,145	300
8	1.5	7/0.53	1.59	0.7	1.8	16	12.1	3,500	375	300
	2.5	7/0.67	2.01	0.7	1.8	17.5	7.41	3,500	490	300
	4	7/0.85	2.55	0.7	1.8	20.5	4.61	3,500	705	300
	6	7/1.04	3.12	0.7	1.8	22.5	3.08	3,500	910	300
	10	7/1.35	4.05	0.7	1.8	25.5	1.83	3,500	1,305	300
10	1.5	7/0.53	1.59	0.7	1.8	18.5	12.1	3,500	475	300
	2.5	7/0.67	2.01	0.7	1.8	20	7.41	3,500	605	300
	4	7/0.85	2.55	0.7	1.8	24	4.61	3,500	895	300
	6	7/1.04	3.12	0.7	1.8	26.5	3.08	3,500	1,145	300
	10	7/1.35	4.05	0.7	1.8	30	1.83	3,500	1,665	300
12	1.5	7/0.53	1.59	0.7	1.8	19	12.1	3,500	530	300
	2.5	7/0.67	2.01	0.7	1.8	20.5	7.41	3,500	680	300
	4	7/0.85	2.55	0.7	1.8	25	4.61	3,500	995	300
	6	7/1.04	3.12	0.7	1.8	27	3.08	3,500	1,320	300
	10	7/1.35	4.05	0.7	1.8	31.5	1.83	3,500	1,955	300
15	1.5	7/0.53	1.59	0.7	1.8	20.5	12.1	3,500	610	300
	2.5	7/0.67	2.01	0.7	1.8	22	7.41	3,500	790	300
	4	7/0.85	2.55	0.7	1.8	26.5	4.61	3,500	1,210	300
	6	7/1.04	3.12	0.7	1.8	29.5	3.08	3,500	1,570	300
20	1.5	7/0.53	1.59	0.7	1.8	22.5	12.1	3,500	770	300
	2.5	7/0.67	2.01	0.7	1.8	24.5	7.41	3,500	1,005	300
	4	7/0.85	2.55	0.7	1.8	29.5	4.61	3,500	1,525	300
	6	7/1.04	3.12	0.7	1.8	33	3.08	3,500	2,050	300
25	1.5	7/0.53	1.59	0.7	1.8	25	12.1	3,500	920	300
	2.5	7/0.67	2.01	0.7	1.8	27.5	7.41	3,500	1,250	300
	4	7/0.85	2.55	0.7	1.9	34	4.61	3,500	1,920	300
30	1.5	7/0.53	1.59	0.7	1.8	26.5	12.1	3,500	1,070	300
	2.5	7/0.67	2.01	0.7	1.8	29	7.41	3,500	1,440	300
	4	7/0.85	2.55	0.7	1.9	36	4.61	3,500	2,220	300
40	1.5	7/0.53	1.59	0.7	1.8	29.5	12.1	3,500	1,335	300
	2.5	7/0.67	2.01	0.7	1.8	33	7.41	3,500	1,855	300
50	1.5	7/0.53	1.59	0.7	1.8	32.5	12.1	3,500	1,685	300
	2.5	7/0.67	2.01	0.7	1.9	36.5	7.41	3,500	2,295	300

0.6/1KV XLPE Insulated halogen Free Flame Retardant Poly-Olefin Sheathed Power Cables(0.6/1KV HF-CO)

● 용도

0.6/1KV의 전력회로에 사용하며 전기적, 물리적, 화학적 특성이 우수하며, PVC 피복 전력 케이블에 비하여 난연 특수성이 우수하고 저독성으로 독소가스가 발생치 않는다.

● USE

This cable is designed for the purpose of using in power distribution line, having excellent low smoking nontoxic and flame retardant.

● 구조

- 도 체 : 전기용 연동선 (원형, 원형 압축 연선)
- 절 연 체 : XLPE
- 선 심 식 별 : 착색 또는 색 테이프

● CONSTRUCTION

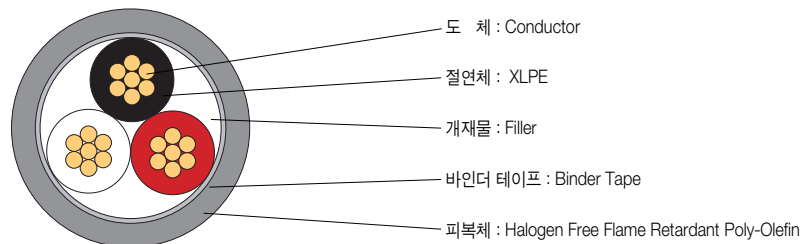
- Conductor : Annealed Copper Wire (Concentric Circular, Compact Circular)
- Insulation : XLPE
- Core Identification : Colouring Method or Color Tape

선 심 수	색
2 심	흑, 백
3 심	흑, 백, 적
4 심	흑, 백, 적, 녹

No. of Cores	Colour
2 Cores	Black, White
3 Cores	Black, White, Red
4 Cores	Black, White, Red, Green

- 피 복 체 : 저독성 난연 폴리올레핀

- Sheath : Halogen Free Flame Retardant Poly-Olefin



단심 - Single Core

도체 Conductor			절연체두께 Nominal Insulation Thickness mm	피복두께 Nominal Sheath Thickness mm	완성품 바깥지름 Approx. Overall Diameter mm	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.4	6.3	12.1	3,500	55	300
2.5	7/0.67	2.01	0.7	1.4	6.7	7.41	3,500	65	300
4	7/0.85	2.55	0.7	1.4	7.2	4.61	3,500	85	300
6	7/1.04	3.12	0.7	1.4	7.8	3.08	3,500	105	300
10	7/1.35	4.05	0.7	1.4	9.4	1.83	3,500	155	300
16	C.C	4.7	0.7	1.4	10	1.15	3,500	210	300
25	C.C	5.9	0.9	1.4	12	0.727	3,500	310	300
35	C.C	6.9	0.9	1.4	13	0.524	3,500	410	300
50	C.C	8.1	1.0	1.4	14.5	0.387	3,500	550	300
70	C.C	9.8	1.1	1.4	16	0.268	3,500	740	300
95	C.C	11.4	1.1	1.5	18.5	0.193	3,500	990	300
120	C.C	12.9	1.2	1.5	20	0.153	3,500	1,240	300
150	C.C	14.4	1.4	1.6	22	0.124	3,500	1,530	300
185	C.C	15.9	1.6	1.6	24	0.0991	3,500	1,900	200
240	C.C	18.3	1.7	1.7	27	0.0754	3,500	2,415	200
300	C.C	20.5	1.8	1.8	30	0.0601	3,500	3,020	200
400	C.C	23.2	2.0	1.9	34	0.0470	3,500	3,940	150
500	C.C	26.4	2.2	2.0	37	0.0366	3,500	4,770	150
630	C.C	30.2	2.4	2.2	42	0.0283	3,500	6,490	150

WIRE & CABLE

0.6/1KV 저독성 난연 전력용 케이블

0.6/1KV XLPE Insulated halogen Free Flame Retardant Poly-Olefin Sheathed Power Cables(0.6/1KV HF-CO)

2 심 - Two Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	11	12.1	3,500	120	300
2.5	7/0.67	2.01	0.7	1.8	12	7.41	3,500	145	300
4	7/0.85	2.55	0.7	1.8	13	4.61	3,500	195	300
6	7/1.04	3.12	0.7	1.8	14	3.08	3,500	245	300
10	7/1.35	4.05	0.7	1.8	17	1.83	3,500	350	300
16	C.C	4.7	0.7	1.8	18.5	1.15	3,500	475	300
25	C.C	5.9	0.9	1.8	22	0.727	3,500	710	300
35	C.C	6.9	0.9	1.8	24	0.524	3,500	930	300
50	C.C	8.1	1.0	1.8	27	0.387	3,500	1,255	300
70	C.C	9.8	1.1	1.8	31	0.268	3,500	1,665	300
95	C.C	11.4	1.1	1.9	35	0.193	3,500	2,230	300
120	C.C	12.9	1.2	2.0	38	0.153	3,500	2,760	300
150	C.C	14.4	1.4	2.2	43	0.124	3,500	3,440	300
185	C.C	15.9	1.6	2.3	47	0.0991	3,500	4,290	200
240	C.C	18.3	1.7	2.5	53	0.0754	3,500	5,470	200
300	C.C	20.5	1.8	2.6	58	0.0601	3,500	6,790	200

3 심 - Three Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3,500	135	300
2.5	7/0.67	2.01	0.7	1.8	12.5	7.41	3,500	180	300
4	7/0.85	2.55	0.7	1.8	13.5	4.61	3,500	245	300
6	7/1.04	3.12	0.7	1.8	14.5	3.08	3,500	315	300
10	7/1.35	4.05	0.7	1.8	18	1.83	3,500	455	300
16	C.C	4.7	0.7	1.8	19.5	1.15	3,500	630	300
25	C.C	5.9	0.9	1.8	23	0.727	3,500	955	300
35	C.C	6.9	0.9	1.8	25	0.524	3,500	1,265	300
50	C.C	8.1	1.0	1.8	29	0.387	3,500	1,715	300
70	C.C	9.8	1.1	1.9	33	0.268	3,500	2,330	300
95	C.C	11.4	1.1	2.0	37	0.193	3,500	3,105	300
120	C.C	12.9	1.2	2.1	41	0.153	3,500	3,890	300
150	C.C	14.4	1.4	2.3	46	0.124	3,500	4,835	300
185	C.C	15.9	1.6	2.4	50	0.0991	3,500	6,015	200
240	C.C	18.3	1.7	2.6	57	0.0754	3,500	7,670	200
300	C.C	20.5	1.8	2.7	62	0.0601	3,500	9,550	200

0.6/1KV 저독성 난연 전력용 케이블

KS C IEC 60502-1, 대용표준

0.6/1KV XLPE Insulated halogen Free Flame Retardant Poly-Olefin Sheathed Power Cables(0.6/1KV HF-CO)

4 심 - Four Core

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage V/5min	중량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	3,500	170	300
2.5	7/0.67	2.01	0.7	1.8	13.5	7.41	3,500	220	300
4	7/0.85	2.55	0.7	1.8	14.5	4.61	3,500	295	300
6	7/1.04	3.12	0.7	1.8	16	3.08	3,500	385	300
10	7/1.35	4.05	0.7	1.8	20	1.83	3,500	570	300
16	C.C	4.7	0.7	1.8	22	1.15	3,500	805	300
25	C.C	5.9	0.9	1.8	26	0.727	3,500	1,220	300
35	C.C	6.9	0.9	1.8	28	0.524	3,500	1,630	300
50	C.C	8.1	1.0	1.9	32	0.387	3,500	2,230	300
70	C.C	9.8	1.1	2.0	36	0.268	3,500	3,020	300
95	C.C	11.4	1.1	2.1	42	0.193	3,500	4,060	300
120	C.C	12.9	1.2	2.3	46	0.153	3,500	5,105	300
150	C.C	14.4	1.4	2.4	51	0.124	3,500	6,300	300
185	C.C	15.9	1.6	2.6	56	0.0991	3,500	7,890	200
240	C.C	18.3	1.7	2.8	63	0.0754	3,500	10,075	200
300	C.C	20.5	1.8	3.0	70	0.0601	3,500	12,580	200

주 : C,C ; 원형 압축(Compact Circular)

6/10KV XLPE Insulated halogen Free Flame Retardant Poly-Olefin
Sheathed Power Cables(6/10KV HF-CO)

● 용도

6/10KV의 전력회로에 사용하며 전기적, 물리적, 화학적 특성이 우수하며, PVC 피복 전력 케이블에 비하여 난연 특수성이 우수하고 저독성으로 독소가스가 발생치 않는다.

● USE

This cable is designed for the purpose of using in power distribution line, having excellent low smoking nontoxic and flame retardant.

● 구조

- 도체 : 전기용 연동선 (원형 압축)
- 절연체 : XLPE
- 선심식별 : 흑색, 백색, 적색
- 차폐 : 연동 테이프
- 피복체 : 저독성 난연 폴리올레핀

● CONSTRUCTION

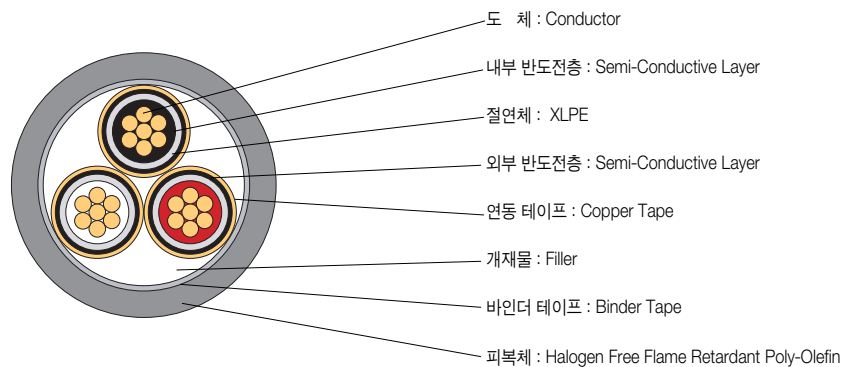
- Conductor : Annealed Copper Wire (Compact Circular)
- Insulation : XLPE
- Core Identification : Black, White, Red
- Shield : Copper Tape
- Sheath : Halogen Free Flame Retardant Poly-Olefin

● 종류 및 기호

종류	기호
6/10KV 저독성 난연 전력용 케이블	6/10KV HF-CO

● Classes & Symbols

No. of Cores	Symbol
6/10KV XLPE Insulated Halogen Free Flame Retardant Poly-Olefin Sheathed Power Cable	6/10KV HF-CO



6/10KV 저독성 난연 전력용 케이블

6/10KV XLPE Insulated halogen Free Flame Retardant Poly-Olefin Sheathed Power Cables(6/10KV HF-CO)

6/10KV HF-CO (Single Core)

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage KV/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
16	C.C	4.7	3.4	1.5	20	1.150	21	440	300
25	C.C	5.9	3.4	1.5	21	0.727	21	550	300
35	C.C	6.9	3.4	1.6	22	0.524	21	680	300
50	C.C	8.1	3.4	1.6	23	0.387	21	810	300
70	C.C	9.8	3.4	1.7	25	0.268	21	1,050	300
95	C.C	11.4	3.4	1.7	27	0.193	21	1,320	300
120	C.C	12.9	3.4	1.8	28	0.153	21	1,600	300
150	C.C	14.4	3.4	1.8	30	0.124	21	1,900	300
185	C.C	15.9	3.4	1.9	32	0.0991	21	2,290	300
240	C.C	18.3	3.4	2.0	35	0.0754	21	2,850	300
300	C.C	20.5	3.4	2.0	37	0.0601	21	3,460	300
400	C.C	23.2	3.4	2.2	40	0.0470	21	4,430	300
500	C.C	26.4	3.4	2.2	43	0.0366	21	5,260	300
630	C.C	30.2	3.4	2.3	48	0.0283	21	6,980	300

(Three Core)

도체 Conductor			절연체두께 Nominal Insulation Thickness	피복두께 Nominal Sheath Thickness	완성품 바깥지름 Approx. Overall Diameter	도체저항 Max, Conductor Resistance at 20℃ Ω /km	시험전압 Test Voltage KV/5min	중 량 Approx. Weight kg/km	표준길이 Standard Length m
공칭단면적 Nominal Sectional Area mm ²	소선수/지름 Number & Diameter of Wire No./mm	바깥지름 Outer Diameter mm							
16	C.C	4.7	3.4	2.1	39	1.150	21	1,440	300
25	C.C	5.9	3.4	2.2	41	0.727	21	1,820	300
35	C.C	6.9	3.4	2.3	43	0.524	21	2,220	300
50	C.C	8.1	3.4	2.4	46	0.387	21	2,750	300
70	C.C	9.8	3.4	2.5	50	0.268	21	3,400	300
95	C.C	11.4	3.4	2.6	53	0.193	21	4,280	300
120	C.C	12.9	3.4	2.7	57	0.153	21	5,150	300
150	C.C	14.4	3.4	2.8	60	0.124	21	5,360	300
185	C.C	15.9	3.4	2.9	64	0.0991	21	7,330	300
240	C.C	18.3	3.4	3.1	69	0.0754	21	8,350	300
300	C.C	20.5	3.4	3.3	74	0.0601	21	10,900	300



부 록

Appendix

- Current Carrying Capacity
- Short Circuit Current Carrying Capacity
- Reference Methods of Installation
- Correction Factors
- Wire Gauges
- Cautions in Handling Cables and Drums
- Main Products

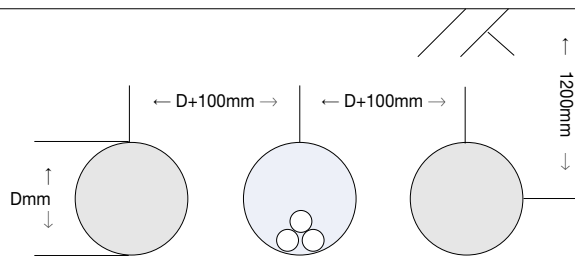
● 22.9KV-Y CNCV-W, FR CNCO-W, TR CNCV-W

- ➡ 주위온도 : 25℃
 ➡ 토양 열 저항 : 100℃.cm/W
 ➡ 도체 최고 허용 온도 : 90℃
 ➡ 손실율 : 1.0

Unit : A

포설조건		1공 3조		
배열		삼각		
회선수		1	2	3
공칭단면적 mm ²	31	168	153	145
	60	220	200	188
	100	287	258	244
	150	354	317	300
	200	408	363	342
	250	448	398	373
	325	496	438	410
	400	531	466	436
	500	557	488	455
	600	579	505	470

➡ 1, 2, 3 회선



● 6/10KV CV, TFR-CV, HFCO

- ➡ 주위온도 : 기중 40℃, 지중 25℃
 ➡ 토양 열 저항 : 100℃.cm/W
 ➡ 도체 최고 허용 온도 : 90℃

Unit : A

포설조건		기중 암거 포설		지중 암거 포설	
		3가닥 S=2d	1가닥 포설	3가닥 S=2d	1가닥
선심수		단심	3심	단심	3심
공칭단면적 mm ²	16	120	105	120	115
	25	160	140	155	150
	35	195	165	185	180
	50	235	200	215	210
	70	295	250	265	255
	95	360	305	320	305
	120	420	355	360	345
	150	480	405	405	285
	185	555	465	460	435
	240	660	550	530	505
	300	765	635	600	565
	400	900	-	690	-
	500	1045	-	775	-
	630	1220	-	880	-













Current Carrying Capacity

● 0.6/1KV, TFR-CV, HF-CO, TFR-8, NFR-8, TFR-3, NFR-3, HFCCO(S, SB)의 허용전류

➡ 도체 온도 : 90℃






➡ 주위 온도 : 기중 30℃, 지중 20℃

Unit : A

도체의 공칭 단면적 mm ²	공사 방법											
	A1		A2		B1		B2		C		D	
												
	단상	3상	단상	3상	단상	3상	단상	3상	단상	3상	단상	3상
1.5	19	17	18.5	16.5	23	20	22	19.5	24	22	26	22
2.5	26	23	25	22	31	28	30	26	33	30	34	29
4	35	31	33	30	42	37	40	35	45	40	44	37
6	45	40	42	38	54	48	51	44	58	52	56	46
10	61	54	57	51	75	66	69	60	80	71	73	61
16	81	73	77	68	100	88	91	80	107	96	95	79
25	106	95	99	89	133	117	119	105	138	119	121	101
35	131	117	121	109	164	144	146	128	171	147	146	122
50	158	141	145	130	198	175	175	154	209	179	173	144
70	200	179	183	164	253	222	221	194	269	229	213	178
95	241	216	220	197	306	269	265	233	328	278	252	211
120	278	249	253	227	354	312	305	268	382	322	287	240
150	318	285	290	259	-	-	-	-	441	371	324	271
185	362	324	329	295	-	-	-	-	506	424	363	304
240	424	380	386	346	-	-	-	-	599	500	419	351
300	486	435	442	396	-	-	-	-	693	576	474	396

주 : 단상-2개 부하도체로 회로 구성, 3상-3개 부하도체로 회로구성

Unit : A

도체의 공칭 단면적 mm ²	도체수와 배치							
	다심 케이블				다심 케이블			
	E	E	F	F	F	G	G	G
								
	단상	3상	단상 밀착	3상 개연형상	3상 밀착	3상 수평이격	3상 수직이격	3상 수직이격
1.5	26	23	-	-	-	-	-	-
2.5	36	32	-	-	-	-	-	-
4	49	42	-	-	-	-	-	-
6	63	54	-	-	-	-	-	-
10	86	75	-	-	-	-	-	-
16	115	100	-	-	-	-	-	-
25	149	127	161	135	141	182	161	161
35	185	158	200	169	176	226	201	201
50	225	192	242	207	216	275	246	246
70	289	246	310	268	279	353	318	318
95	352	298	377	328	342	430	389	389
120	410	346	437	383	400	500	454	454
150	473	399	504	444	464	577	527	527
185	542	456	575	510	533	661	605	605
240	641	538	679	607	634	781	719	719
300	741	621	783	703	736	902	833	833
400	-	-	940	823	868	1085	1008	1008
500	-	-	1083	946	998	1253	1169	1169
630	-	-	1254	1088	1151	1454	1362	1362

주 : 단상-2개 부하도체로 회로 구성, 3상-3개 부하도체로 회로구성

허용 전류

Current Carrying Capacity

0.6/1KV, VV, CVV(S,SB,AMS), TFR-CVV(S,SB,AMS)의 허용전류

- 도체 온도 : 970℃
- 주위 온도 : 기중 30℃, 지중 20℃

Unit : A

도체의 공칭 단면적 mm ²	공사 방법											
	A1		A2		B1		B2		C		D	
	단상	3상	단상	3상	단상	3상	단상	3상	단상	3상	단상	3상
1.5	14.5	13.5	14	13	17.5	15.5	16.5	15	19.5	17.5	22	18
2.5	19.5	18	18.5	17.5	24	21	23	20	27	24	29	24
4	26	24	25	23	32	28	30	27	36	32	38	31
6	34	31	32	29	41	36	38	34	46	41	47	39
10	46	42	43	39	57	50	52	46	63	57	63	52
16	61	56	57	52	76	68	69	62	85	76	81	67
25	80	73	75	68	101	89	90	80	112	96	104	86
35	99	89	92	83	125	110	111	99	138	119	125	103
50	119	108	110	99	151	134	133	118	168	144	148	122
70	151	136	139	125	192	171	168	149	213	184	183	151
95	182	164	167	150	232	207	201	179	258	223	216	179
120	210	188	192	172	269	239	232	206	299	259	246	203
150	240	216	219	196	-	-	-	-	344	299	278	230
185	273	245	248	223	-	-	-	-	392	341	312	258
240	321	286	291	261	-	-	-	-	461	403	361	297
300	367	328	334	298	-	-	-	-	530	464	408	336

주 : 단상-2개 부하도체로 회로 구성, 3상-3개 부하도체로 회로구성

Unit : A







도체의 공칭 단면적 mm ²	도체수와 배치							
	다심 케이블				다심 케이블			
	E	E	F	F	F	G	G	G
	단상	3상	단상 밀착	3상 개연형상	3상 밀착	3상 수평이격	3상 수직이격	3상 수직이격
1.5	22	18.5	-	-	-	-	-	-
2.5	30	25	-	-	-	-	-	-
4	40	34	-	-	-	-	-	-
6	51	43	-	-	-	-	-	-
10	70	60	-	-	-	-	-	-
16	94	80	-	-	-	-	-	-
25	119	101	131	110	114	146	130	130
35	148	126	162	137	143	181	162	162
50	180	153	196	167	174	219	197	197
70	232	196	251	216	225	281	254	254
95	282	238	304	264	275	341	311	311
120	328	276	352	308	321	396	362	362
150	376	319	406	356	372	456	419	419
185	434	364	463	409	427	521	480	480
240	514	430	546	485	507	615	559	559
300	593	497	629	561	587	709	659	659
400	-	-	754	656	689	852	795	795
500	-	-	868	749	789	982	920	920
630	-	-	1005	855	905	1138	1070	1070

주 : 단상-2개 부하도체로 회로 구성, 3상-3개 부하도체로 회로구성

● 300/500V HIV의 허용전류

- ➡ 도체 온도 : 90℃
- ➡ 주위 온도 : 기중 30℃, 지중 20℃

Unit : A

도체의 공 칭 단면적 mm ²	공사 방법			
	A1		B1	
			 	 
	단상	3상	단상	3상
1.5	19	17	23	20
2.5	26	23	31	28
4	35	31	42	37
6	45	40	54	48
10	61	54	75	66
16	81	73	100	88
25	106	95	133	117
35	131	117	164	144
50	158	141	198	175
70	200	179	253	222
95	241	216	306	269
120	278	249	354	312
150	318	285	-	-
185	362	324	-	-
240	424	380	-	-
300	486	435	-	-







주 : 단상-2개 부하도체로 회로 구성, 3상-3개 부하도체로 회로구성

주 : HIV의 생산 가능품목은 2.5SQ이하만 생산가능 →4SQ 이상은 IV와 비교를 위해 기입한 것입니다.

● 450/750V IV의 허용전류

- ➡ 도체 온도 : 70℃
- ➡ 주위 온도 : 기중 30℃

Unit : A

도체의 공 칭 단면적 mm ²	공사 방법			
	A1		B1	
			 	 
	단상	3상	단상	3상
1.5	14.5	13.5	17.5	15.5
2.5	19.5	18	24	21
4	26	24	32	28
6	34	31	41	36
10	46	42	57	50
16	61	56	76	68
25	80	73	101	89
35	99	89	125	110
50	119	108	151	134
70	151	136	192	171
95	182	164	232	207
120	210	188	269	239
150	240	216	-	-
185	273	245	-	-
240	321	286	-	-
300	367	328	-	-

주 : 단상-2개 부하도체로 회로 구성, 3상-3개 부하도체로 회로구성

● 0.6/1KV 이하 케이블

➔ 적용사항 : KS C IEC 60364-5-52, 건축전기설비 - 허용전류

기호	시공방법	
A1	▶단열이 된 벽 내의 전선관에 시공한 절연도체	▶단열벽내에 직접 매설한 다심케이블
A2	▶단열이 된 벽 내의 전선관에 시공한 다심케이블	
B1	▶목재 또는 석재 벽면의 전선관 에 시공한 절연도체	▶목재 벽면의 케이블 트렁킹에 시공한 절연도체 또는 다심 케이블
	▶빌딩빈틈에 시공한 단심, 다심 케이블(틈새의 치수와 케이블 외경에 따라 B2로도 계산됨)	▶석조벽 내 전선관의 절연도체 또는 단심 케이블
B2	▶목재 또는 석재 벽면의 전선관 에 시공한 다심 케이블	▶빌딩빈틈에 시공한 단심, 다심 케이블(틈새의 치수와 케이블 외경에 따라 B1로도 계산됨)
	▶석조벽 내 전선관의 다심 케이블	
C	▶목재 벽면의 단심, 다심 케이블 (고정 또는 목재 벽면으로부터 케이블 지름의 0.3배 이하로 이격)	▶막힘형 트레이에 포설한 단심, 다심 케이블
	▶석조벽에 직접 시공한 단심 또는 다심 케이블	
D	▶지중내 전선관이나 덕트 내에 시공한 단심 또는 다심 케이블	▶지중내 직접 시공한 단심, 다심 케이블
E	▶기중의 다심 케이블 (벽과의 이격 거리는 케이블 지름의 0.3배 이상)	▶환기형 트레이, 브래킷, 금속망 에 포설된 다심 케이블
	▶사다리에 포설된 다심 케이블	
F	▶단심 케이블로 자유 공기와 접촉 (벽과 의 이격 거리는 케이블 지름 의 0.3배 이상)	▶환기형 트레이, 브래킷, 금속망 에 포설된 단심 케이블
	▶사다리에 포설된 단심 케이블	
G	▶기중 개방의 단심 케이블 이격	▶애자 위의 나선 또는 절연전선

● 보정 계수

➡ 주위 온도에 대한 허용전류 보정 계수

주위온도 ℃	기중 포설		직매 포설	
	비닐절연체	가교폴리에틸렌절연체	비닐절연체	가교폴리에틸렌절연체
10	1.22	1.15	1.10	1.07
15	1.17	1.12	1.05	1.04
20	1.12	1.08	0.95	0.96
25	1.06	1.04	0.89	0.93
35	0.94	0.96	0.84	0.89
40	0.87	0.91	0.77	0.85
45	0.79	0.89	0.71	0.80
50	0.71	0.82	0.63	0.76
55	0.61	0.76	0.55	0.71
60	0.50	0.71	0.45	0.65
65	-	0.65	-	0.60
70	-	0.58	-	0.53
75	-	0.50	-	0.46
80	-	0.41	-	0.38

※단 HIV의 경우 가교폴리에틸렌 절연체의 보정계수 적용

➡ 직매 포설의 토양 열저항률에 대한 허용전류 보정 계수

저항률 K,m/V	1	1.5	2	2.5	3
보정 계수	1.18	1.1	1.05	1	0.96

➡ 기중 포설시 복수 회로 또는 다심 케이블 복수의 집합에 대한 허용전류 보정 계수

배치	회로 또는 다심 케이블의 수											
	1	2	3	4	5	6	7	8	9	12	16	20
기중이나 벽면에 묶거나 매설 또는 수납	1.00	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.45	0.41	0.38
벽 또는 막힘형 트레이의 단일층	1.00	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	-	-	-
목재 천정면 아래에 직접 고정된 단일층	0.95	0.81	0.72	0.68	0.66	0.64	0.63	0.62	0.61	-	-	-
환기형 수평 또는 수직트레이의 단일층	1.00	0.88	0.82	0.77	0.75	0.73	0.73	0.72	0.72	-	-	-
사다리 지지대 또는 클리트의 단일층	1.00	0.87	0.82	0.80	0.80	0.79	0.79	0.78	0.78	-	-	-

➡ 지중에 직접 시설한 복수의 케이블에 대한 허용전류 보정계수(단심 또는 다심케이블)

회로수	케이블 간격				
	케이블 밀착	1 케이블 지름	0.125m	0.25m	0.5m
2	0.75	0.80	0.85	0.90	0.90
3	0.65	0.70	0.75	0.80	0.85
4	0.60	0.60	0.70	0.75	0.80
5	0.55	0.55	0.65	0.70	0.80
6	0.50	0.55	0.60	0.70	0.80

➡ 지중 원웨이 덕트내에 시설한 복수의 케이블에 대한 허용전류 보정계수(다심 / 단심 케이블)

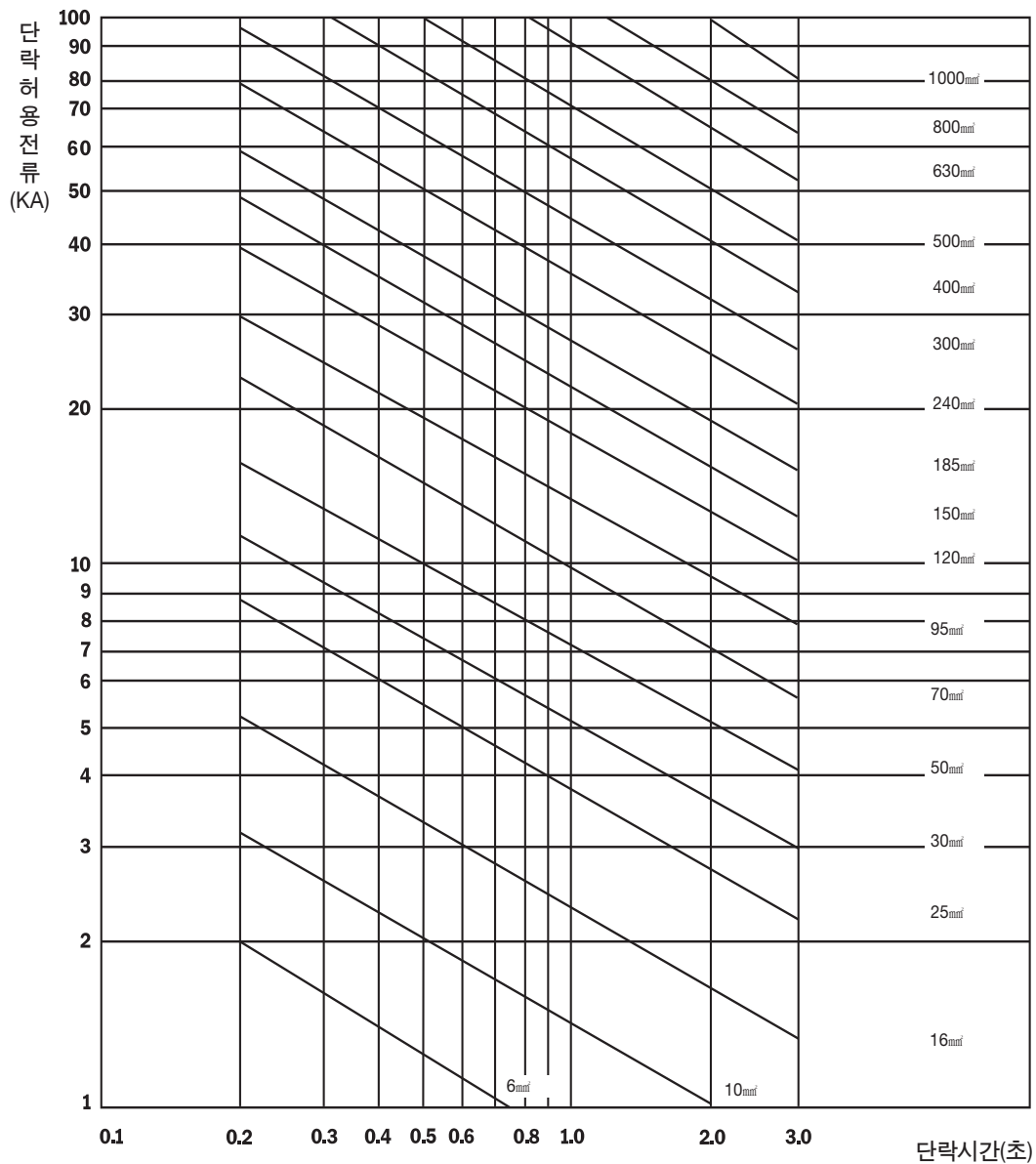
케이블 수	덕트의 간격							
	덕트밀착		0.25m		0.5m		1.0m	
	다심	단심	다심	단심	다심	단심	다심	단심
2	0.85	0.80	0.90	0.90	0.95	0.90	0.95	0.95
3	0.75	0.70	0.85	0.80	0.90	0.85	0.95	0.90
4	0.70	0.65	0.80	0.75	0.85	0.80	0.90	0.90
5	0.65	0.60	0.80	0.70	0.85	0.80	0.90	0.90
6	0.60	0.60	0.80	0.70	0.80	0.80	0.90	0.90

단락 허용 전류

Short Circuit Current Carrying Capacity

● 단락 허용전류

➔ CV케이블(동도체)



$$I_s = \sqrt{\frac{0.115 \log \frac{T_2 + 234.5}{T_1 + 234.5}}{t}} \quad A = \frac{0.141}{\sqrt{t}} A$$

I : 단락허용전류(KA)
A : 케이블의 도체 단면적(mm²)
T₁ : 도체 최고 허용 온도(90℃)
T₂ : 단락시 도체 허용 온도(250℃)
t : 단락시간 (초)

Wire Gauges

게이지별 Gauge System				선경 Diameter		단면적 Cross-Sectional Areas			중량 Copper Wire Weight		
mm,G	B,S of A,W,G.	S,W,G.	B,W,G.	mm	mil	sq,mm	sq,in	Cir,mil	Kg/Km	1b/1,000ft	1b/mile
8	1	1	1	8.00	315	50.27	0.07793	99225	446.9	300.42	1586
				7.62	300	45.60	0.07069	90000	405.4	272.42	1438
		2	2	7.341	289	42.22	0.06560	83521	376.2	252.82	1335
				7.241	284	40.87	0.06335	80656	363.3	244.14	1289
				7.010	276	38.60	0.05983	76176	343.1	230.58	1217
7	2	3	3	7.00	276	38.48	0.05983	76176	342.1	229.87	1214
				6.579	259	33.99	0.05269	67081	303.2	203.05	1072
				6.553	258	33.94	0.05228	66564	299.8	201.48	1064
6.5	3	4	4	6.5	256	33.18	0.05147	655336	295.0	198.22	1047
				6.401	252	32.18	0.04988	63504	286.1	192.22	1015
				6.045	238	28.70	0.04449	56644	255.1	171.46	905.3
6	4	5	5	6.00	236	28.27	0.04374	55696	251.3	168.86	891.6
				5.893	232	27.27	0.04227	53824	242.5	162.92	860.2
				5.817	229	26.57	0.04119	57441	236.2	158.74	838.1
5.5	5	6	6	5.588	220	24.52	0.03801	48400	218.0	145.51	773.5
				5.50	217	23.76	0.03698	47089	211.2	141.91	749.3
				5.385	212	22.77	0.03530	44944	202.5	136.04	718.3
5	6	7	7	5.182	204	21.09	0.03269	41616	187.5	125.97	665.1
				5.156	203	20.88	0.03237	41209	185.6	124.74	658.6
				5.00	197	19.64	0.03048	38809	174.6	117.32	619.4
4.5	7	8	8	4.877	192	18.68	0.02895	36864	166.1	111.58	589.1
				4.623	182	16.78	0.02602	33124	149.2	100.27	529.4
				4.572	180	16.42	0.02545	32400	146.0	98.072	517.8
4	8	9	9	4.50	177	15.90	0.02416	31329	141.4	95.016	501.7
				4.47	176	15.70	0.02433	30976	139.5	93.762	495.0
				4.191	165	13.79	0.02238	27225	122.6	82.403	435.1
3.5	9	10	10	4.115	162	13.30	0.02061	26244	118.2	79.439	419.4
				4.065	160	13.97	0.02011	25600	115.3	77.489	409.1
				4.00	158	12.67	0.01961	24964	111.7	75.060	396.3
3.2	10	11	11	3.759	148	11.10	0.01720	21904	98.68	66.302	350.1
				3.658	144	10.507	0.01629	20736	93.41	62.766	331.4
				3.50	138	9.621	0.01496	19044	85.53	57.473	303.4
2.9	11	12	12	3.404	134	9.096	0.01410	17956	80.86	54.351	287.0
				3.251	128	8.302	0.01287	16384	73.80	49.598	261.9
				3.20	126	8.042	0.01247	15876	71.49	48.036	256.3
2.6	12	13	13	3.048	120	7.296	0.01131	14400	64.86	43.588	230.1
				2.948	116	6.818	0.01057	13456	60.61	40.732	215.4
				2.90	114.2	6.605	0.01024	13042	58.72	39.455	208.3
2.3	13	14	14	2.896	114	6.585	0.01021	12996	58.54	39.338	207.7
				2.769	109	6.020	0.009331	11881	53.52	35.963	189.9
				2.642	104	5.480	0.008495	10816	48.72	32.739	172.9
2.0	14	15	15	2.60	102	5.309	0.008171	10404	47.20	31.713	167.4
				2.591	102	5.272	0.008171	10404	46.87	31.492	166.3
				2.413	95	4.572	0.007088	9025	40.65	27.318	144.2
1.8	15	16	16	2.337	92	4.284	0.006648	8464	38.08	25.622	135.3
				2.311	91	4.196	0.006504	8281	37.30	25.076	132.4
				2.30	90.6	4.155	0.006447	8208	36.96	24.820	131.0
1.6	16	17	17	2.108	83	3.491	0.005411	6889	31.047	20.853	110.0
				2.057	81	3.325	0.005153	6561	29.55	19.860	104.9
				2.032	80	3.243	0.005027	6400	28.83	19.372	102.3
1.4	17	18	18	2.00	79	3.142	0.004902	6241	27.93	18.767	99.09
				1.828	72	2.627	0.004072	5184	23.35	15.692	82.85
				1.80	71	2.545	0.003959	5041	22.63	15.208	80.30
1.2	18	19	19	1.651	65	2.140	0.003318	4225	19.03	12.789	67.52
				1.626	64	2.075	0.003217	4096	18.45	12.398	65.46
				1.60	63	2.011	0.003117	3969	17.88	12.015	63.44
1.0	19	20	20	1.473	58	1.704	0.002643	3364	15.15	10.183	53.76
				1.448	57	1.646	0.002552	3249	14.64	9.835	53.93
				1.422	56	1.589	0.002463	3136	14.13	9.493	50.12
0.9	20	21	21	1.40	55	1.539	0.002376	3025	13.68	9.196	48.55
				1.295	51	1.318	0.002043	2601	11.72	7.873	41.57
				1.245	49	1.217	0.001886	2401	10.82	7.276	38.42
0.8	21	22	22	1.219	48	1.168	0.001810	2304	10.38	6.974	36.82
				1.20	47	1.131	0.001735	2209	10.05	6.753	35.65
				1.143	45	1.026	0.001590	2025	9.122	6.129	32.36
0.7	22	23	23	1.067	42	0.8935	0.001385	1764	7.943	5.339	28.19
				1.016	40	0.8107	0.001257	1600	7.207	4.843	25.57
				1.00	39	0.7854	0.001195	1521	6.982	4.691	24.77
0.65	23	24	24	0.9144	36	0.6567	0.001018	1296	5.838	3.923	20.71
				0.90	35.4	0.6362	0.0009841	1253	5.656	3.801	20.07
				0.889	35	0.6207	0.0009621	1225	5.518	3.708	19.58
0.6	24	25	25	0.8128	32	0.5189	0.0008043	1024	4.613	3.098	16.36
				0.80	31.5	0.5027	0.0007791	992	4.469	3.003	15.86
				0.7239	28.5	0.4156	0.0006379	812.3	3.695	2.459	12.98
0.5	25	26	26	0.7112	28	0.3973	0.0006158	784	3.532	2.373	12.53
				0.700	27.6	0.3848	0.000583	761.8	3.421	2.299	12.14
				0.650	26	0.3318	0.0005309	676	2.950	1.982	10.46
0.4	26	27	27	0.6428	25.3	0.3243	0.0005027	640	2.883	1.937	10.23
				0.635	25	0.3167	0.0004909	625	2.816	1.892	9.989
				0.6096	24	0.2919	0.0004524	576	2.595	1.744	9.208

Wire Gauges

게이지별 Gauge System				선경 Diameter		단면적Cross-Sectional Areas			중량 Copper Wire Weight		
mm,G	B.S of A.W.G.	S.W.G.	B.W.G.	mm	mil	sq.mm	sq.in	Cir.mil	Kg/Km	1b/1,000ft	1b/mile
0.60	23	24	24	0.600	23.6	0.2877	0.0004376	557	2.513	1.689	8.918
				0.574	22.6	0.2588	0.0004013	510.8	2.301	1.546	8.163
				0.5588	22	0.2452	0.0003801	484	22.181	1.465	7.735
0.55	24	25	25	0.550	21.7	0.2376	0.0003699	470.9	2.112	1.419	7.491
				0.5105	20.1	0.2047	0.0003173	404	2.820	1.223	6.457
				0.508	20	0.2021	0.0003142	400	1.797	1.211	6.394
0.50	25	26	26	0.500	19.7	0.1964	0.0003048	388.1	1.746	1.173	6.193
				0.458	18	0.16420.1	0.0002545	324	1.460	0.9807	5.178
				0.4547	17.9	624	0.0002516	320.4	1.443	0.9699	5.121
0.45	26	27	27	0.450	17.7	0.1590	0.0002461	313.3	1.414	0.9504	5.018
				0.4166	16.4	0.1363	0.0002112	268.9	1.212	0.8141	4.298
				0.4064	14	0.1297	0.0002011	256	1.153	0.7749	4.091
0.40	27	28	28	0.4039	15.9	0.1281	0.0001986	252.8	1.139	0.7652	4.040
				0.400	15.8	0.1257	0.0001960	249.6	1.117	0.7506	3.963
				0.3759	14.8	0.1110	0.0001720	219	0.9868	0.6630	23.501
0.35	28	29	29	0.3607	14.2	0.1022	0.0001584	201.6	0.9083	0.6104	3.223
				0.3556	14	0.09928	0.0001539	196	0.8826	0.5933	3.133
				0.350	13.8	0.08621	0.0001495	190.4	0.8553	0.5747	3.034
0.32	29	30	30	0.3454	13.6	0.09372	0.0001453	184.9	0.8332	0.5599	2.956
				0.3302	13	0.0856	0.0001327	169	0.7610	0.5115	2.701
				0.320	12.6	0.08042	0.0001247	158.8	0.7149	0.4805	2.537
0.29	30	31	31	0.3150	12.4	0.0791	0.0001203	153.8	0.7032	0.4654	2.457
				0.3048	12	0.07276	0.0001131	144	0.6486	0.4359	2.301
				0.2946	11.6	0.06818	0.0001057	136.6	0.6061	0.4073	2.150
0.26	31	32	32	0.290	11.4	0.0605	0.0001021	130	0.5872	0.3946	2.083
				0.287	11.3	0.06470	0.0001003	127.7	0.5752	0.3865	2.041
				0.2743	10.8	0.05910	0.00009161	116.6	0.5254	0.3531	1.864
0.23	32	33	33	0.260	10.2	0.05309	0.00008168	104	0.4720	0.3171	1.674
				0.2540	10	0.05067	0.00007854	100	0.4505	0.3027	1.598
				0.2337	9.2	0.04289	0.00006648	84.64	0.3813	0.2562	1.353
0.20	33	34	34	0.230	9.1	0.04155	0.00006504	82.81	0.3694	0.2482	1.310
				0.2286	9	0.04105	0.00006362	81	0.3649	0.2452	1.295
				0.2261	8.9	0.04041	0.00006221	79.21	0.3568	0.2398	1.266
0.18	34	35	35	0.2134	8.4	0.03515	0.00005542	70.56	0.3125	0.2136	1.128
				0.2032	8	0.03243	0.00005027	64	0.2884	0.1937	1.023
				0.2019	7.9	0.03203	0.00004964	63.21	0.2847	0.1913	1010
0.16	35	36	36	0.2000	7.9	0.03142	0.00004902	62.41	0.2793	0.1877	0.9910
				0.1930	7.6	0.02927	0.00004537	57.76	0.2602	0.1748	0.9229
				0.1803	7.1	0.0255	0.00003859	50.41	0.2271	0.1526	0.8057
0.14	36	37	37	0.180	7.1	0.02545	0.00003959	50.41	0.2263	0.1521	0.8031
				0.1778	7	0.02483	0.00003848	49	0.2207	0.1483	0.7830
				0.1727	6.8	0.02348	0.00003632	46.24	0.2087	0.1400	0.7392
0.12	37	38	38	0.160	6.3	0.02010	0.00003117	39.69	0.1788	0.1201	0.6341
				0.1524	6	0.01824	0.00002827	36	0.1622	0.1090	0.5755
				0.1422	5.6	0.01587	0.00002463	31.36	0.1413	0.09492	0.5012
0.10	38	39	39	0.140	5.5	0.01539	0.00002376	30.25	0.1368	0.09196	0.4855
				0.1321	5.2	0.01370	0.00002124	27.04	0.1218	0.08155	0.4306
				0.1270	5	0.01267	0.00001964	25	0.1126	0.07567	0.3995
0.08	39	40	40	0.1219	4.8	0.01167	0.00001810	23.04	0.1038	0.06974	0.3682
				0.120	4.7	0.01131	0.00001736	22.09	0.1005	0.06762	0.3570
				0.1131	4.5	0.01005	0.00001557	19.83	0.08931	0.06001	0.3168
0.06	40	41	41	0.1118	4.4	0.00981	0.00001521	19.36	0.08721	0.05860	0.3094
				0.1016	4	0.008107	0.00001257	16	0.07207	0.04843	0.2557
				0.100	3.9	0.007854	0.00001194	15.21	0.06982	0.04690	0.2476
0.05	41	42	42	0.0914	3.6	0.006567	0.00001018	12.96	0.05838	0.03923	0.2071
				0.0889	3.5	0.006207	0.00000962	12.25	0.05518	0.03708	0.1958
				0.0813	3.2	0.005187	0.000008043	10.24	0.04613	0.03100	0.1637
0.04	42	43	43	0.0787	3.1	0.004870	0.000007548	9.61	0.04329	0.02909	0.1535
				0.0711	2.8				0.00351		
				0.0633	2.494				0.02802		
0.03	43	44	44	0.0610	2.4				0.02595		
				0.0564	2.221				0.02222		
				0.0508	2.0				0.01802		
0.02	44	45	45	0.0502	1.978				0.01762		
				0.0500	1.969				0.01746		
				0.0477	1.761						
0.01	45	46	46	0.0406	1.6						
				0.0399	1.57						
				0.0356	1.4						
0.005	46	47	47	0.0315	1.24						
				0.0305	1.2						
				0.0282	1.11						
0.002	47	48	48	0.0254	1.0						
				0.0224	0.88						
				0.0198	0.78						
0.001	48	49	49	0.0178	0.7						
				0.0158	0.62						
				0.0140	0.56						
0.0005	49	50	50	0.0125	0.5						

Note : mm, G.(Millimeter Wire Gauge) S.W.G.(British Standard Wire Gauge) A.W.G.(American Wire Gauge) B.W.G.(Birmingham Wire Gauge) B.S.(Browne & Sharpe Wire Gauge)

Cautions in Handling Cables and Drums

케이블 취급시 다음과 같은 주의 사항을 반드시 숙지하여 제품을 안전하고 정확하게 사용함으로써 불의의 사고나 손해를 사전에 예방합니다.

1. 본 제품은 자격이 있는 지정된 사람만이 취급하고 사용하십시오.
2. 안전 주의사항은 사용하는 사람이 언제라도 볼 수 있는 장소에 보관하고 반드시 읽어 주십시오.
3. 작업 전에 장갑, 안전모, 안전화, 안전복을 착용하십시오.

● 케이블 운반, 보관 포설 및 폐기시 주의사항

❑ 작업전 확인 사항

1. 드럼을 싣거나 내릴 때에는 지게차나 크레인을 사용하고 충격을 주지 마십시오.
2. 드럼에 표시된 중량을 확인하고 드럼보다 큰 용량의 지게차나 크레인을 사용하십시오.
3. 드럼은 작업장이나 작업자의 반대 또는 옆방향에 보관하십시오.
2. 드럼의 포장목은 케이블 포설 전에 제거하여야 하며, 드럼 안쪽 표면에 튀어나온 못 등의 이물질 유무를 확인하고 제거하여 포설 중 케이블에 손상주지 않도록 하십시오.
3. 포설 작업시 케이블에 가해지는 인장강도는 허용 인장강도 이하가 되어야 하며, 인장강도의 급격한 변화가 없어야 합니다.
(동도체 최대 허용 인장력=도체 공칭단면적[mm²]×7[kgf/mm²])
4. 포설 작업시 과도한 굴곡으로 인해 케이블이 꺾여 제품이 손상되지 않도록 허용 곡률반경이상을 준수 하십시오.

❑ 지게차를 이용한 운반

1. 드럼을 들어올릴 때는 지게차 발이 드럼 폭보다 길게 나오도록 하십시오.
2. 이동시는 천천히 이동하고 도로의 요철에 의해 드럼에 충격을 가하지 않도록 하십시오.
3. 드럼은 가급적 수평인 곳에 내려놓고 드럼이 굴러가느 것을 방지하기 위해 고임목을 설치하십시오.

❑ 차량을 이용한 운반

1. 드럼을 고에 고정시키고, 드럼 중량이 큰 경우 고임목을 사용하여 더욱 단단히 고정하십시오.
2. 드럼을 차량에 적재하는 운전자 또는 작업자는 드럼에 감는 철선의 단선 및 포장목 부러짐등의 포장상태와 제품의 고정상태를 확인하십시오.
3. 운행 중 고정장치에 충격이 무리하게 가해져 풀림현상등이 발생하지 않도록 급출발, 급제동을 하지 않아야 하며, 차량 총 높이를 인지하여 각종 도로 구조물들과의 충돌사고를 예방하십시오.

❑ 보관

1. 드럼은 수평인 곳에 보관하고, 드럼이 움직이는 것을 방지 하기 위해 고임목을 설치하십시오.
2. 드럼과 포장목은 일반 나무재질이므로 가급적 화염주위에 보관하지 마십시오.
3. 드럼은 눕히거나 2단이상으로 적재하지 마십시오.
4. 드럼은 수분이 침투하지 않도록 케이블 양단을 캡 또는 열수축 튜브 등으로 밀봉해 주십시오.
5. 드럼은 직접 햇빛에 노출되지 않도록차단막이 있는 곳에 보관하고, 드럼의 포장목이 제거된 때에는 주위 환경으로부터 물리적, 화학적 변화를 발생하지 않도록 보호커버를 해 주십시오.

❑ 포 설

1. 포설 전 사용자는 제품이 포설 계획에 적합 여부 및 제품에 손상이 없는지 확인하고, 포설할 때 사용되는 장비는 적합한 것이어야 합니다.

▶ 포설 작업시 최소 곡률 반경

- CU 테이프, 동선 차폐 단심 케이블 : 케이블 외경의 20배
- 3심 케이블 : 케이블 외경의 15배

▶ 포설 후 운용시 최소 곡률 반경

- CU 테이프, 동선 차폐 단심 케이블 : 케이블 외경의 15배
- 3심 케이블 : 케이블 외경의 12배

5. 포설작업시 케이블의 최외층 피복체가 PVC 재질인 경우 대기온도가 -10 이하에서는 취급중 케이블 피복체에 금이 갈 수 있으므로 포설작업 및 드럼을 취급하지 않도록 하십시오.
6. 포설 또는 운용시에 제품에 직접 충격이나 과도한 압축을 가하면 케이블 손상으로 기능을 잃을 수 있으므로 주의 하십시오.
7. 케이블 포설 중 포설 완료 후 수분이 침입하지 않도록 케이블 양단을 캡 또는 열수축 튜브등으로 밀봉해 주십시오.

❑ 제품 손상시 조치사항

포설/운용중에 제품 손상이 발생할 경우 제조자나 전문가에게 의뢰하기 바라며, 제조자나 전문가의 결정에 따라 사용여부를 결정해야 합니다.

❑ 폐기시 주의사항

1. 폐기 할 때에는 자격 있는 사람이 취급 및 폐기 하여 주십시오.
2. 폐기할 때에는 케이블 및 드럼을 일반인이 제사용 및 다른 용도로 사용할 수 없도록 취급하여 주십시오.

주요 생산품목

Main Products

나동선

- 전기용 경동연선 (HS)
- 전기용 연동연선 (AS)

알루미늄 전선

- 전기용 경알루미늄선 (HAL)
- 전기용 경알루미늄 연선 (HASC)
- 강심 알루미늄연선 (ACSR)
- 알루미늄 피복강심 알루미늄 연선 (ACSR/AW)
- 강심 알루미늄(카디날) 연선 (ACSR/CARDINAL)
- 알루미늄 연선 (AAC)
- 알루미늄 가교폴리에틸렌 절연연선 (ACSR-OC, HAL-OC, ACSR/AW-OC)

절연전선

- 450/750V 비닐절연전선 (IV)
- 300/500V 2중(내열) 비닐절연전선 (HIV)
- 450/750V 저독성 가교폴리올레핀 절연전선 (HFIX)
- 옥외용 비닐절연전선 (OW)
- 인입용 비닐절연전선 (DV)
- 6.6KV 및 22.9KV 고압 인하용 절연전선 (PDC)(SOL-PDC)
- 강심 알루미늄 절연전선 (ACSR-OC)
- 알루미늄 피복강심 알루미늄 절연전선 (ACSR/AW-OC)
- 0.6/1KV 트레이용 난연성 접지용 절연전선(TFR-GV)
- 알루미늄 피복강심 알루미늄 도체 비닐 절연전선(450/750V ACSR/AW-OW)

전력케이블

- 0.6/1KV 비닐절연 비닐슈이즈 케이블 (VV)
- 0.6/1KV 비닐절연 비닐슈이즈 평형케이블 (VVF)
- 0.6/1KV 폴리에틸렌 및 가교폴리에틸렌(난연성) 전력케이블 (EV, CV, FR-CV)
- 0.6/1KV 저독성 난연 전력케이블 (HF-CO)
- 6/10 KV~18/30KV 고압 폴리에틸렌 및 가교폴리에틸렌 케이블 (CV, CVT, FR-CV)
- 6/10 KV 저독성 난연 전력케이블 (HF-CO)
- 22.9 KV-y 가교폴리에틸렌절연 비닐슈이즈 동심중성선 배전용 케이블 (CN/CV)
- 22.9 KV-y 동심중성선 수트리억제 충실 전력케이블(TR-CNCE-W, FR-CNCO-W)
- 22.9 KV-y 수트리 억제 충실 알루미늄 전력케이블(TR-CNCE-W/AL)
- 22.9 KV-y 가교폴리에틸렌 절연 저독난연 폴리오레핀피복 동심 중성선 수밀형 케이블 (FR-CNCO-W/AL)

트레이용 난연케이블

- 0.6/1KV 트레이용 난연 전력 케이블(TFR-CV)
- 0.6/1KV 트레이용 난연성 제어용 케이블(TFR-CVV)
- 0.6/1KV 트레이용 난연성 정전 차폐부 제어용 케이블(TFR-CWS)
- 0.6/1KV 트레이용 난연성 화재 경보용 내열전선(TFR-3)
- 0.6/1KV 트레이용 난연성 소방용 내화전선(TFR-8)
- 6/10 KV 트레이용 난연 전력 케이블(TFR-CV)

소방용 케이블

- 0.6/1KV 화재경보용(내열 및 저독성난연) 케이블 (FR-3, NFR-3)
- 0.6/1KV 소방용 (내화 및 저독성난연) 케이블 (FR-8, NFR-8)

제어용 케이블

- 0.6/1KV 제어용 비닐절연 비닐슈이즈 케이블 (CVV, FR-CVV)
- 0.6/1KV 난연성 정전차폐부 제어용 비닐절연 비닐슈이즈 케이블 (CVV-S, FR-CWS)
- 0.6/1KV 제어용 케이블 (CCV, CCE)
- 0.6/1KV 저독성 난연 제어용 케이블 (HF-CCO, HF-CCO-S)

Cautions in Handling Cables and Drums

● **BARE COPPER WIRES**

- Hard-Drawn Copper Stranded Wire for Electrical Purpos.
- Annealed Copper Stranded Wire for Electrical Purpose.

● **ALUMINIUM WIRES**

- Hard-Drawn Aluminium Wire for Electrical Purpose.
- Hard-Drawn Aluminium Stranded Wire for Electrical Purpose.
- Aluminium Conductor Steel Reinforced.
- Aluminium Conductor Aluminium-Clad Steel Reinforced.
- Aluminium Stranded Conductor Steel Reinforced.
- All Aluminium Conductor.
- Aluminium Conductor Cross-Linked Polyethylene Insulated Wire.

● **INSULATED WIRES**

- 450/750V PVC Insulated Wire.
- 300/500V Heat-Resistant PVC Insulated Wire.
- 450/750V Halogen Free Flame Retardant Poly-Olefin Insulated Wire.
- Outdoor Weather Proof PVC Insulated Wire.
- PVC Insulated Drop Service Wire.
- Drop Wires for Pole Transformers.
- Aluminium Conductor Steel Reinforced Outdoor XLPE Insulated Wire.
- Aluminium Conductor Steel Reinforced Aluminium Clad Steel Wire Outdoor Crosslinked Polyethylene Insulated Wire.
- 0,6/1KV Tray Flame Retardant PVC Insulated Grounding Cable.
- 450/750V Aluminium Conductor Aluminium-Clad Steel Reinforced PVC Insulated Wire

● **POWER CABLES**

- 0,6/1KV PVC Insulated PVC Sheathed Cable.
- 0,6/1KV PVC Insulated and PVC Sheathed Flat Type Cable.
- 0,6/1KV PE & XLPE Insulated PVC (FR/PVC) Sheath Cables.
- 0,6/1KV XLPE Insulated Halogen Free Flame Retardant Poly-Olefin Sheathed Power Cable.
- 6/10KV~18/30KV PE & XLPE Insulated Power Cables.
- 6/10KV XLPE Insulated Halogen Free Flame Retardant Poly-Olefin Sheathed Power Cable.
- 22,9KV-y XLPE Insulated PVC Sheathed Concentric Neutral Power Cables.
- 22,9KV-y Concentric Neutral Type Water Tree Retardant XLPE Insulated Extruded-to-Fill Polyethylene Jacketed Water-Proof Power Cables.
- 22,9KV-y Concentric Neutral Type Water Tree Retardant XLPE Insulated Extruded-to-Fill Polyethylene Jacketed Water-Proof Power Aluminium Cables.
- 22,9KV-y XLPE Insulated Hologen Free Poly-olefin Sheathed Concentric Neutral Power Cables.

● **TRAY FLAME RETARDANT CABLE**

- 0,6/1KV~6/10 Tray Flame Retardant Power Cable.
- 0,6/1KV Tray Flame Retardant Control Cable.
- 0,6/1KV Tray Flame Retardant Control Cable with Copper Tape Shield.
- 0,6/1KV Tray Flame Retardant Heat-Resistant Cable.
- 0,6/1KV Tray Flame Retardant Fire-Proof Cable.

● **FIRE PROTECTOIN CABLES**

- Heat-Resistant Cables (Fire Resistant Cable)
- Fire Proof Cables (Fire Resistant Cable)

● **CONTROL CABLES**

- 0,6/1KV PVC (FR/PVC) Insulated and PVC (FR-PVC) Sheathed Control Cable
- 0,6/1KV PVC (FR/PVC) Insulated and Flame-Retardant PVC (FR/PVC) Sheathed Control Cable
- 0,6/1KV PE & XLPE Insulated PVC & PE Sheathed Control Cables.
- 0,6/1KV XLPE Insulated Halogen Free Flame-Retardant Poly-Olefin Sheathed Control Cable



<http://www.drcable.co.kr>

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