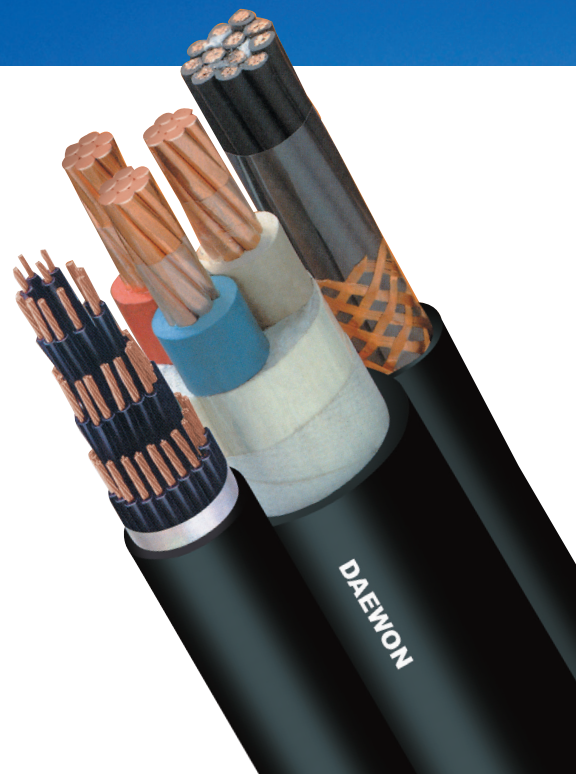


난연케이블

Flame Retardant Cable

DAEWON CABLE

- 0.6/1kV TRAY용 난연 제어용 케이블(0.6/1kV TFR-CV)
- 0.6/1kV 트레이용 난연 접지 비닐절연 전선
- 0.6/1kV TRAY용 난연 전력용 케이블(0.6/1kV TFR-CV)
- 6/10kV TRAY용 난연 전력 케이블(6/10kV TFR-CV)
- 0.6/1kV 화재 경보용 내열 전선, 0.61kV 소방용 내화전선
- 0.6/1kV 저독성 난연 제어용 케이블(0.6/1kV HF-CCO)
- 0.6/1kV 저독성 난연 전력용 케이블(0.6/1kV HF-CO)
- 6/10kV 저독성 난연 전력용 케이블(6/10kV HF-CO)
- 소방신호용 케이블(UL Style No. 2095)



난연케이블

Flame Retardant Cables

산업제반 시설이 복잡하고 다양화 되면서, 전기 사용량 증가에 따라, 전기 화재위험이 증가 하였습니다. 초고층빌딩, 지하철, 공연장, 지하상가 등 도시 공간을 고도로 사용하는 장소에서 화재의 확산을 막을 수 있는 Tray용 난연케이블(TFR Cable)과 저독성 난연케이블(HFFR Cable)을 사용하면 2차 피해인 유독가스에 의한 인명 피해를 막을 수 있습니다.

■ 난연케이블의 종류

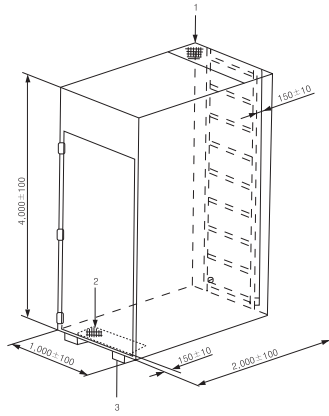
종 류	Tray용 난연케이블	저독성 난연케이블
절 연 전 선	—	450/750V HF-IO
전 력 선	0.6/kV TFR-CV 6/10kV TFR-CV	0.6/kV HF-CO 6/10kV HF-CO
제어용 케이블	0.6/1kV TFR-CVV 0.6/1kV TFR-CVV-S 0.6/1kV TFR-CVV-SB	0.6/kV HF-CCO 0.6/kV HF-CCO-S 0.6/kV HF-CCO-SB
소방용 케이블	0.6/1kV TFR-3 0.6/1kV TFR-8	0.6/kV NFR-3 0.6/kV NFR-8

■ 난연특성

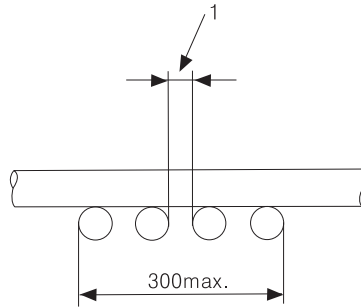
종 류	Tray용 난연케이블	저독성 난연케이블
PH	—	4.3 이상
연기밀도	—	절연체 : 200 이하, 피복체 : 150 이하
유독가스발생량	18% 이하	0.50% 이하
난연성	수직 트레이 (TRAY) 난연 불꽃시험	
시험방법	KS C IES 60332-3-24 (카테고리 C)	

■ 난연시험방법

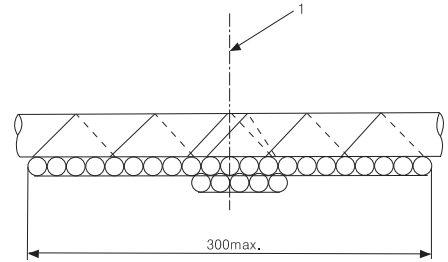
항 목	수직Tray 난연시험
시험 규격서	KS C IES 60332-3-24 Tray용 난연케이블 저독성 난연케이블
화염 인가조건	공기 77.7±4.8 ℓ/min과 프로판 가스 13.5±0.5 ℓ/min을 태워 20분간 인가
시험설비	높이 4m, 폭 1m, 깊이 2m의 연소실
시험방법	1) 시험 시료 길이 3.5m로 한다. 2) 시료의 재료중 비금속 물질의 체적이 1.5 ℓ/m가 되도록 시료수를 선정한다. 3) 트레이에 시료를 최대 폭이 300mm 이하가 되도록 채운다. 4) 공기 77.7±4.8 ℓ/min과 프로판가스 13.5±0.5 ℓ/min을 태운 가열원을 20분간인가 한다. 5) 버너는 바닥에서 높이 600±5mm와 시료 전면에서 부터 75±5mm의 거리에 수평으로 설치한다.
시험결과	버너의 바닥 모서리 부분으로 부터 2.5m이상 타지 않아야 한다.



수직 TRAY 시험 연소실



표준 사다리의 전면 부위에 장착된 이격 케이블

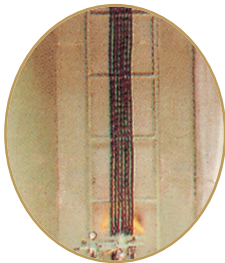


표준 사다리의 전면 부위에 장착된 접촉 케이블
(접촉 케이블의 배열)

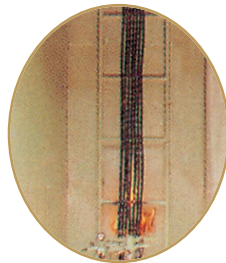
수직 트레이 난연 시험 장면

(무독성 난연케이블과 일반케이블의 비교)

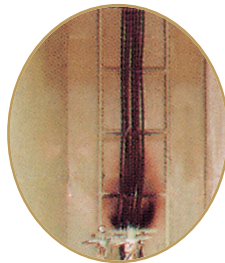
난연 케이블



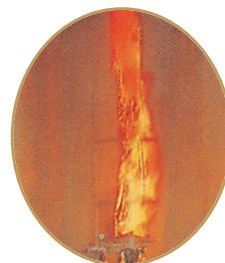
10분



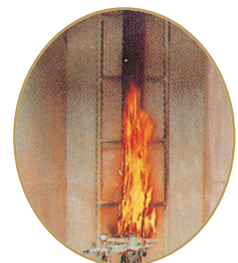
20분



종료후



20분



10분

일반 케이블

0.6/1kV TRAY용 난연 제어용 케이블(0.6/1kV TFR-CVV)

K 60502-1
대원표준

V.T.F.T Flame Retardant PVC Sheathed Control Cable

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

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

구 조

1. 도 체 : 전기용 연동선 (단선, 원형 연선)
2. 절 연 체 : PVC
3. 선심식별 : 착색

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

4. 피 복 체 : 난연성 염화 비닐 수지

Construction

1. Conductor : Annealed copper Wire
(Solid, Concentric Circular)
2. Insulation : PVC
3. Core Identification : Colouring Method

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

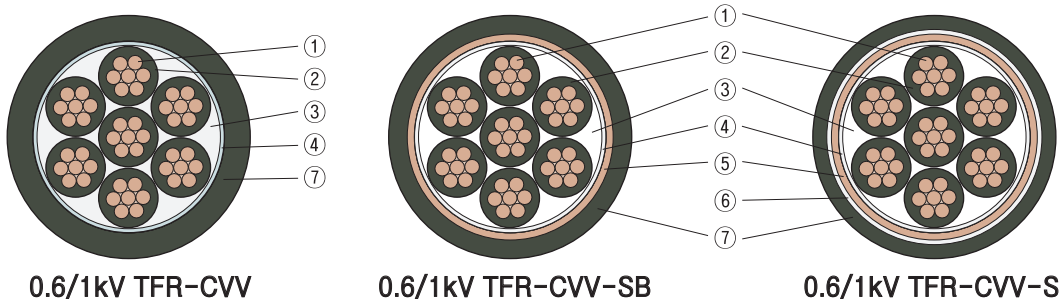
4. Sheath : Flame Retardant PVC

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
- 연동선 편조 차폐 케이블	0.6/1kV TFR-CW-SB

Class and Symbol

Class	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
- Copper Wire Braided Shield	0.6/1kV TFR-CW-SB



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

■ 0.6/1KV TFR-CVV

Nominal of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
2	1.5	7/0.53	1.59	0.8	1.8	10	12.1	3500	110	300
	2.5	7/0.67	2.01	0.8		11	7.41		150	
	4	7/0.85	2.55	1.0		13	4.61		210	
	6	7/1.04	3.12	1.0		14	3.08		270	
	10	7/1.35	4.05	1.0		16	1.83		380	
3	1.5	7/0.53	1.59	0.8	1.8	10.5	12.1	3500	140	300
	2.5	7/0.67	2.01	0.8		11.5	7.41		180	
	4	7/0.85	2.55	1.0		13.5	4.61		270	
	6	7/1.04	3.12	1.0		15	3.08		345	
	10	7/1.35	4.05	1.0		17	1.83		495	
4	1.5	7/0.53	1.59	0.8	1.8	11.5	12.1	3500	180	300
	2.5	7/0.67	2.01	0.8		12.5	7.41		230	
	4	7/0.85	2.55	1.0		15	4.61		330	
	6	7/1.04	3.12	1.0		16	3.08		440	
	10	7/1.35	4.05	1.0		18.5	1.83		630	
5	1.5	7/0.53	1.59	0.8	1.8	12.5	12.1	3500	200	300
	2.5	7/0.67	2.01	0.8		13.5	7.41		260	
	4	7/0.85	2.55	1.0		16	4.61		405	
	6	7/1.04	3.12	1.0		17.5	3.08		525	
	10	7/1.35	4.05	1.0		20	1.83		760	
6	1.5	7/0.53	1.59	0.8	1.8	13.5	12.1	3500	235	300
	2.5	7/0.67	2.01	0.8		14.5	7.41		310	
	4	7/0.85	2.55	1.0		17.5	4.61		475	
	6	7/1.04	3.12	1.0		19.5	3.08		620	
	10	7/1.35	4.05	1.0		22	1.83		920	
7	1.5	7/0.53	1.59	0.8	1.8	13.5	12.1	3500	250	300
	2.5	7/0.67	2.01	0.8		14.5	7.41		350	
	4	7/0.85	2.55	1.0		17.5	4.61		515	
	6	7/1.04	3.12	1.0		19.5	3.08		675	
	10	7/1.35	4.05	1.0		22	1.83		1010	
8	1.5	7/0.53	1.59	0.8	1.8	14.5	12.1	3500	285	300
	2.5	7/0.67	2.01	0.8		16	7.41		390	
	4	7/0.85	2.55	1.0		19	4.61		585	
	6	7/1.04	3.12	1.0		21.5	3.08		795	
	10	7/1.35	4.05	1.0		24	1.83		1140	
10	1.5	7/0.53	1.59	0.8	1.8	16.5	12.1	3500	355	300
	2.5	7/0.67	2.01	0.8		18	7.41		475	
	4	7/0.85	2.55	1.0		22.5	4.61		740	
	6	7/1.04	3.12	1.0		24.5	3.08		980	
	10	7/1.35	4.05	1.0		29	1.83		1495	
12	1.5	7/0.53	1.59	0.8	1.8	17	12.1	3500	405	300
	2.5	7/0.67	2.01	0.8		19	7.41		545	
	4	7/0.85	2.55	1.0		23	4.61		855	
	6	7/1.04	3.12	1.0		25.5	3.08		1130	
	10	7/1.35	4.05	1.0		29.5	1.83		1705	
15	1.5	7/0.53	1.59	0.8	1.8	18.5	12.1	3500	490	300
	2.5	7/0.67	2.01	0.8		20.5	7.41		660	
	4	7/0.85	2.55	1.0		25	4.61		1035	
	6	7/1.04	3.12	1.0		27.5	3.08		1385	
20	1.5	7/0.53	1.59	0.8	1.8	20.5	12.1	3500	625	300
	2.5	7/0.67	2.01	0.8		23	7.41		880	
	4	7/0.85	2.55	1.0		28	4.61		1340	
	6	7/1.04	3.12	1.0		30.5	3.08		1780	
25	1.5	7/0.53	1.59	0.8	1.8	23	12.1	3500	760	300
	2.5	7/0.67	2.01	0.8		26	7.41		1040	
	4	7/0.85	2.55	1.0		32	4.61		1620	
30	1.5	7/0.53	1.59	0.8	1.8	24.5	12.1	3500	895	300
	2.5	7/0.67	2.01	0.8		27.5	7.41		1225	
	4	7/0.85	2.55	1.0		33.5	4.61		1910	
40	1.5	7/0.53	1.59	0.8	1.8	27.5	12.1	3500	1140	300
	2.5	7/0.67	2.01	0.8		31	7.41		1590	
50	1.5	7/0.53	1.59	0.8	1.9	31	12.1	3500	1470	300
	2.5	7/0.67	2.01	0.8		35	7.41		2035	

■ 0.6/1KV TFR-CV-S

Nominal of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
2	1.5	7/0.53	1.59	0.8	1.8	10.5	12.1	3500	140	300
	2.5	7/0.67	2.01	0.8		11.5	7.41		175	
	4	7/0.85	2.55	1.0		13.5	4.61		240	
	6	7/1.04	3.12	1.0		14.5	3.08		300	
	10	7/1.35	4.05	1.0		16.5	1.83		385	
3	1.5	7/0.53	1.59	0.8	1.8	11	12.1	3500	170	300
	2.5	7/0.67	2.01	0.8		12	7.41		210	
	4	7/0.85	2.55	1.0		14	4.61		300	
	6	7/1.04	3.12	1.0		15.5	3.08		380	
	10	7/1.35	4.05	1.0		17.5	1.83		535	
4	1.5	7/0.53	1.59	0.8	1.8	12	12.1	3500	205	300
	2.5	7/0.67	2.01	0.8		13	7.41		260	
	4	7/0.85	2.55	1.0		15.5	4.61		365	
	6	7/1.04	3.12	1.0		16.5	3.08		475	
	10	7/1.35	4.05	1.0		19	1.83		675	
5	1.5	7/0.53	1.59	0.8	1.8	13	12.1	3500	230	300
	2.5	7/0.67	2.01	0.8		14	7.41		300	
	4	7/0.85	2.55	1.0		16.5	4.61		445	
	6	7/1.04	3.12	1.0		18	3.08		570	
	10	7/1.35	4.05	1.0		20.5	1.83		825	
6	1.5	7/0.53	1.59	0.8	1.8	14	12.1	3500	265	300
	2.5	7/0.67	2.01	0.8		15	7.41		345	
	4	7/0.85	2.55	1.0		18	4.61		520	
	6	7/1.04	3.12	1.0		19.5	3.08		670	
	10	7/1.35	4.05	1.0		22.5	1.83		975	
7	1.5	7/0.53	1.59	0.8	1.8	14	12.1	3500	285	300
	2.5	7/0.67	2.01	0.8		15	7.41		380	
	4	7/0.85	2.55	1.0		18	4.61		560	
	6	7/1.04	3.12	1.0		19.5	3.08		725	
	10	7/1.35	4.05	1.0		22.5	1.83		1070	
8	1.5	7/0.53	1.59	0.8	1.8	15	12.1	3500	320	300
	2.5	7/0.67	2.01	0.8		16	7.41		430	
	4	7/0.85	2.55	1.0		19.5	4.61		630	
	6	7/1.04	3.12	1.0		21.5	3.08		820	
	10	7/1.35	4.05	1.0		24.5	1.83		1210	
10	1.5	7/0.53	1.59	0.8	1.8	17	12.1	3500	395	300
	2.5	7/0.67	2.01	0.8		19	7.41		520	
	4	7/0.85	2.55	1.0		23	4.61		800	
	6	7/1.04	3.12	1.0		25	3.08		1040	
	10	7/1.35	4.05	1.0		29	1.83		1520	
12	1.5	7/0.53	1.59	0.8	1.8	17.5	12.1	3500	450	300
	2.5	7/0.67	2.01	0.8		19.5	7.41		590	
	4	7/0.85	2.55	1.0		23.5	4.61		915	
	6	7/1.04	3.12	1.0		26	3.08		1200	
	10	7/1.35	4.05	1.0		29.5	1.83		1760	
15	1.5	7/0.53	1.59	0.8	1.8	19	12.1	3500	540	300
	2.5	7/0.67	2.01	0.8		21	7.41		710	
	4	7/0.85	2.55	1.0		25.5	4.61		1100	
	6	7/1.04	3.12	1.0		28	3.08		1460	
	10	7/1.35	4.05	1.0		31	3.08		1870	
20	1.5	7/0.53	1.59	0.8	1.8	21	12.1	3500	680	300
	2.5	7/0.67	2.01	0.8		23	7.41		935	
	4	7/0.85	2.55	1.0		28	4.61		1410	
	6	7/1.04	3.12	1.0		31	3.08		1870	
	10	7/1.35	4.05	1.0		34.5	1.83		2590	
25	1.5	7/0.53	1.59	0.8	1.8	23.5	12.1	3500	820	300
	2.5	7/0.67	2.01	0.8		26.5	7.41		1110	
	4	7/0.85	2.55	1.0		32	4.61		1770	
	6	7/1.04	3.12	1.0		35	3.08		2320	
	10	7/1.35	4.05	1.0		38.5	1.83		3080	
30	1.5	7/0.53	1.59	0.8	1.8	25	12.1	3500	960	300
	2.5	7/0.67	2.01	0.8		28	7.41		1290	
	4	7/0.85	2.55	1.0		34	4.61		2000	
	6	7/1.04	3.12	1.0		37.5	3.08		2750	
	10	7/1.35	4.05	1.0		40.5	1.83		3680	
40	1.5	7/0.53	1.59	0.8	1.8	28	12.1	3500	1220	300
	2.5	7/0.67	2.01	0.8		31.5	7.41		1680	
	4	7/0.85	2.55	1.0		38.5	4.61		2590	
	6	7/1.04	3.12	1.0		41.5	3.08		3500	
	10	7/1.35	4.05	1.0		44.5	1.83		4640	
50	1.5	7/0.53	1.59	0.8	1.8	31	12.1	3500	1500	300
	2.5	7/0.67	2.01	0.8		34.5	7.41		2090	
	4	7/0.85	2.55	1.0		41.5	4.61		3120	
	6	7/1.04	3.12	1.0		44.5	3.08		4200	
	10	7/1.35	4.05	1.0		47.5	1.83		5520	

0.6/1KV TFR-CVV-SB

Nominal of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20°C Ω/km	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
2	1.5	7/0.53	1.59	0.8	1.8	10.5	12.1	3500	150	300
	2.5	7/0.67	2.01	0.8		11.5	7.41		185	
	4	7/0.85	2.55	1.0		13.5	4.61		255	
	6	7/1.04	3.12	1.0		14.5	3.08		320	
	10	7/1.35	4.05	1.0		16.5	1.83		440	
3	1.5	7/0.53	1.59	0.8	1.8	11	12.1	3500	180	300
	2.5	7/0.67	2.01	0.8		12	7.41		220	
	4	7/0.85	2.55	1.0		14.5	4.61		320	
	6	7/1.04	3.12	1.0		15.5	3.08		400	
	10	7/1.35	4.05	1.0		17.5	1.83		570	
4	1.5	7/0.53	1.59	0.8	1.8	12	12.1	3500	215	300
	2.5	7/0.67	2.01	0.8		13	7.41		270	
	4	7/0.85	2.55	1.0		15.5	4.61		390	
	6	7/1.04	3.12	1.0		17	3.08		500	
	10	7/1.35	4.05	1.0		19	1.83		705	
5	1.5	7/0.53	1.59	0.8	1.8	13	12.1	3500	245	300
	2.5	7/0.67	2.01	0.8		14	7.41		310	
	4	7/0.85	2.55	1.0		17	4.61		465	
	6	7/1.04	3.12	1.0		18.5	3.08		600	
	10	7/1.35	4.05	1.0		21	1.83		855	
6	1.5	7/0.53	1.59	0.8	1.8	14	12.1	3500	280	300
	2.5	7/0.67	2.01	0.8		15.5	7.41		365	
	4	7/0.85	2.55	1.0		18	4.61		545	
	6	7/1.04	3.12	1.0		20	3.08		700	
	10	7/1.35	4.05	1.0		23	1.83		1020	
7	1.5	7/0.53	1.59	0.8	1.8	14	12.1	3500	295	300
	2.5	7/0.67	2.01	0.8		15.5	7.41		405	
	4	7/0.85	2.55	1.0		18	4.61		585	
	6	7/1.04	3.12	1.0		20	3.08		760	
	10	7/1.35	4.05	1.0		23	1.83		1110	
8	1.5	7/0.53	1.59	0.8	1.8	15	12.1	3500	340	300
	2.5	7/0.67	2.01	0.8		16.5	7.41		455	
	4	7/0.85	2.55	1.0		19.5	4.61		660	
	6	7/1.04	3.12	1.0		21.5	3.08		865	
	10	7/1.35	4.05	1.0		24.5	1.83		1260	
10	1.5	7/0.53	1.59	0.8	1.8	17.5	12.1	3500	420	300
	2.5	7/0.67	2.01	0.8		19	7.41		550	
	4	7/0.85	2.55	1.0		23	4.61		840	
	6	7/1.04	3.12	1.0		25	3.08		1090	
	10	7/1.35	4.05	1.0		29	1.83		1600	
12	1.5	7/0.53	1.59	0.8	1.8	18	12.1	3500	475	300
	2.5	7/0.67	2.01	0.8		19.5	7.41		620	
	4	7/0.85	2.55	1.0		23.5	4.61		960	
	6	7/1.04	3.12	1.0		26	3.08		1260	
	10	7/1.35	4.05	1.0		30.5	1.83		1890	
15	1.5	7/0.53	1.59	0.8	1.8	19	12.1	3500	565	300
	2.5	7/0.67	2.01	0.8		21	7.41		740	
	4	7/0.85	2.55	1.0		25.5	4.61		1170	
	6	7/1.04	3.12	1.0		28	3.08		1530	
	10	7/1.35	4.05	1.0		32	3.08		2000	
20	1.5	7/0.53	1.59	0.8	1.8	21	12.1	3500	710	300
	2.5	7/0.67	2.01	0.8		23.5	7.41		980	
	4	7/0.85	2.55	1.0		28.5	4.61		1470	
	6	7/1.04	3.12	1.0		32	3.08		2000	
	10	7/1.35	4.05	1.0		36.5	1.83		2740	
25	1.5	7/0.53	1.59	0.8	1.8	24	12.1	3500	870	300
	2.5	7/0.67	2.01	0.8		26.5	7.41		1180	
	4	7/0.85	2.55	1.0		33	4.61		1830	
	6	7/1.04	3.12	1.0		37.5	3.08		2540	
	10	7/1.35	4.05	1.0		41.5	1.83		3470	
30	1.5	7/0.53	1.59	0.8	1.8	25.5	12.1	3500	1010	300
	2.5	7/0.67	2.01	0.8		28	7.41		1370	
	4	7/0.85	2.55	1.0		35.5	4.61		2180	
	6	7/1.04	3.12	1.0		39.5	3.08		2970	
	10	7/1.35	4.05	1.0		43.5	1.83		4040	
40	1.5	7/0.53	1.59	0.8	1.8	28.5	12.1	3500	1300	300
	2.5	7/0.67	2.01	0.8		32	7.41		1860	
	4	7/0.85	2.55	1.0		39.5	4.61		2970	
	6	7/1.04	3.12	1.0		43.5	3.08		4040	
	10	7/1.35	4.05	1.0		47.5	1.83		5470	
50	1.5	7/0.53	1.59	0.8	1.8	31.5	12.1	3500	1630	300
	2.5	7/0.67	2.01	0.8		35.5	7.41		2240	
	4	7/0.85	2.55	1.0		43.5	4.61		3470	
	6	7/1.04	3.12	1.0		47.5	3.08		4770	
	10	7/1.35	4.05	1.0		51.5	1.83		6470	

0.6/1kV 트레이용난연접지비닐절연전선

K 60502-1
대원표준

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

전기기기의접지용으로사용되며, 기존PVC절연전선보다
난연성이매우우수하다.

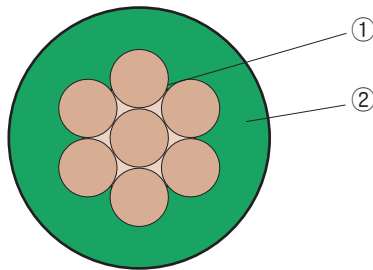
This wire is used for grounding of electric apparatus,
excellent flame retardant.

■ 구조

1. 도 체 : 전기용연동성(원형, 원형압축연선)
 2. 절 연 체 : 난연성염화비닐수지
 3. 선심식별 : 녹색 혹은 녹/황(녹색 바탕+황색 한 줄)
- ※ 상기 색상은 기본 색상이며, 요청에 의해 변경 가능함.

■ Construction

1. Conductor : Annealed copper Wire
(Concentric Circular, Compact Circular)
 2. Insulation : Flame Retardant PVC
 3. Core Identification : Green or GN/YL
(Green background + one yellow line)
- ※ Above colors are basic colors and can be changed upon request.



①도체 ①Conductor
②절연체 ②Insulation

■ 0.6/1kV TFR-GV

Conductor			Nominal Insulation Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm						
1.5	7/0.53	1.59	2.2	6.5	12.1	3500	60	300
2.5	7/0.67	2.01		7.0	7.41		70	
4	7/0.85	2.55		8.0	4.61		100	
6	7/1.04	3.12	2.4	8.5	3.08		125	
10	7/1.35	4.05		9.5	1.83		175	
16	C.C.	4.7		10.0	1.15		230	
25	C.C.	5.9	2.6	11.5	0.727		340	
35	C.C.	6.9		12.5	0.524		440	
50	C.C.	8.1		14.0	0.387		595	
70	C.C.	9.7	2.8	15.5	0.268		785	
95	C.C.	11.3		18.0	0.193		1070	
120	C.C.	12.8		19.5	0.153		1310	
150	C.C.	14.4	3.4	21.5	0.124		1620	200
185	C.C.	15.9	3.7	24.0	0.0991		2010	
240	C.C.	18.3	4.0	27.0	0.0754		2605	
300	C.C.	20.3	4.3	29.5	0.0601		3225	
400	C.C.	23.1	4.6	33.0	0.0470		4140	150
500	C.C.	26.5	4.9	37.0	0.0366		5205	
630	C.C.	30.2	5.0	41.0	0.0283		6620	

※ CC: 원형 압축

0.6/1kV TRAY용난연전력용케이블(0.6/1kV TFR-CV)

K 60502-1
대원표준

0.6/1kV VTFT Flame Retardant PVC Sheathed Power Cable

0.6/1kV의전력회로에사용하며전기적, 물리적, 화학적특성이우수하며, PVC 피복전력케이블에비하여난연특성이우수하다.

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

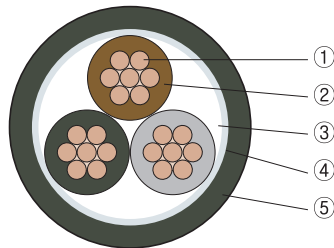
■ 구조

1. 도 체 : 전기용연동선 (원형, 원형압축연선)
2. 절 연 체 : XLPE
3. 선심식별 : 착색또는색테이프

선심수	색
2 심	갈, 흑
3 심	갈, 흑, 회
4 심	갈, 흑, 회, 청

4. 피 복 체 : 난연성염화비닐수지

※ 상기 색상은 기본 색상이며, 요청에 의해 변경 가능한.



■ Construction

1. Conductor : Annealed copper Wire (Concentric Circular, Compact Circular)
2. Insulation : XLPE
3. Core Identification : Colouring Method or Color Tape

No. of cores	Colour
2 cores	Brown, Black
3 cores	Brown, Black, Gray
4 cores	Brown, Black, Gray, Blue

4. Sheath : Flame Retardant PVC

※ Above colors are basic colors and can be changed upon request.

- | | |
|-----------|---------------|
| ① 도 체 | ① Conductor |
| ② 절연체 | ② XLPE |
| ③ 개재물 | ③ Filler |
| ④ 바인더 테이프 | ④ Binder Tape |
| ⑤ 피복체 | ⑤ Sheath |

■ 단심Single Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m	
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm								
1.5	7/0.53	1.59	0.7	1.4	6.0	12.1	3500	50	300	
2.5	7/0.67	2.01			6.3	7.41		60		
4	7/0.85	2.55			7.0	4.61		80		
6	7/1.04	3.12			7.5	3.08		105		
10	7/1.35	4.05			8.5	1.83		150		
16	C.C.	4.7			9.0	1.15		210		
25	C.C.	5.9	0.9	1.5	11	0.727		310	200	
35	C.C.	6.9			12	0.524		410		
50	C.C.	8.1			13	0.387		550		
70	C.C.	9.7	1.1		15	0.268		730		
95	C.C.	11.3			16.5	0.193		980		
120	C.C.	12.8	1.2		18.5	0.153		1230		150
150	C.C.	14.4	1.4	1.6	20.5	0.124		1510		
185	C.C.	15.9	1.6		22.5	0.0991		1880		
240	C.C.	18.3	1.7	1.7	25	0.0754		2420	150	
300	C.C.	20.3	1.8	1.8	27.5	0.0601		3000		
400	C.C.	23.1	2.0	1.9	31	0.0470	3880			
500	C.C.	26.5	2.2	2.0	35	0.0366	4890	150		
630	C.C.	30.2	2.4	2.2	39.5	0.0283	6310			

※CC:원형 압축

■ 2심Two Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20°C Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	9.5	12.1	3500	105	300
2.5	7/0.67	2.01			10.5	7.41		140	
4	7/0.85	2.55			11.5	4.61		175	
6	7/1.04	3.12			13	3.08		230	
10	7/1.35	4.05			14.5	1.83		340	
16	C.C.	4.7			16	1.15		460	
25	C.C.	5.9	0.9	1.9	19	0.727		680	
35	C.C.	6.9			21	0.524		890	
50	C.C.	8.1	1.0		24	0.387		1200	
70	C.C.	9.7	1.1		27.5	0.268		1620	
95	C.C.	11.3			31	0.193		2180	
120	C.C.	12.8	1.2	2.0	35	0.153		2720	200
150	C.C.	14.4	1.4	2.2	39	0.124		3390	
185	C.C.	15.9	1.6	2.3	43	0.0991		4200	
240	C.C.	18.3	1.7	2.5	48.5	0.0754		5430	
300	C.C.	20.3	1.8	2.6	53.5	0.0601		6700	

※CC:원형 압축

■ 3심Three Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20°C Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	10	12.1	3500	130	300
2.5	7/0.67	2.01			11	7.41		170	
4	7/0.85	2.55			12.5	4.61		220	
6	7/1.04	3.12			13.5	3.08		300	
10	7/1.35	4.05			15.5	1.83		440	
16	C.C.	4.7			17	1.15		610	
25	C.C.	5.9	0.9		20.5	0.727		940	
35	C.C.	6.9			22.5	0.524		1240	
50	C.C.	8.1	1.0		25.5	0.387		1670	
70	C.C.	9.7	1.1		29.5	0.268		2290	
95	C.C.	11.3			2.0	33.5		0.193	
120	C.C.	12.8	1.2	2.1	37.5	0.153		3860	200
150	C.C.	14.4	1.4	2.3	42	0.124		4810	
185	C.C.	15.9	1.6	2.4	46	0.0991		5950	
240	C.C.	18.3	1.7	2.6	52	0.0754		7720	
300	C.C.	20.3	1.8	2.7	57.5	0.0601		9570	

※CC:원형 압축

■ 4심Four Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20°C Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	11	12.1	3500	160	300
2.5	7/0.67	2.01			12	7.41		210	
4	7/0.85	2.55			13.5	4.61		280	
6	7/1.04	3.12			14.5	3.08		370	
10	7/1.35	4.05			17	1.83		550	
16	C.C.	4.7			18.5	1.15		790	
25	C.C.	5.9	0.9		22.5	0.727		1190	
35	C.C.	6.9			25	0.524		1590	
50	C.C.	8.1	1.0	1.9	28.5	0.387		2180	
70	C.C.	9.7	1.1	2	33	0.268		2980	
95	C.C.	11.3		2.1	37	0.193		4030	
120	C.C.	12.8	1.2	2.3	41.5	0.153		5070	
150	C.C.	14.4	1.4	2.4	46.5	0.124		6270	
185	C.C.	15.9	1.6	2.6	51.5	0.0991		7820	200
240	C.C.	18.3	1.7	2.8	58.5	0.0754		10120	
300	C.C.	20.3	1.8	3.0	64	0.0601		12590	

※CC:원형압축

6/10kV TRAY용 난연전력케이블(6/10kV TFR-CV)

KS C IEC 60502-2, 대원표준

6/10 kV V.T.F.T. Flame Retardant PVC Sheathed Power Cable

6/10kV의 전력회로에 사용하며 전기적, 물리적, 난연특성
이 매우 우수하다. 화학적 특성이 우수하며, PVC 피복전력
케이블에 비하면 난연특성이 매우 우수하다.

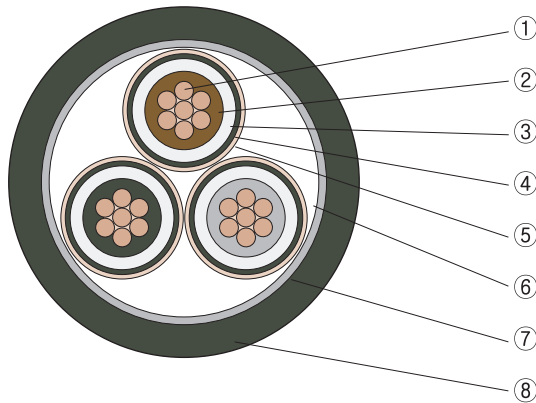
This cable is designed for the purpose of using in
power distribution line, having excellent flame
retardant.

■ 구조

1. 도 체 : 전기용연동성(원형압축)
 2. 절 연 체 : XLPE
 3. 선심식별 : 갈색, 흑색, 회색
 4. 차 폐 : 연동테이프
 5. 피 복 체 : 난연성염화비닐수지
- ※ 상기 색상은 기본 색상이며, 요청에 의해 변경 가능함.

■ Construction

1. Conductor : Annealed copper Wire
(Compact Circular)
 2. Insulation : XLPE
 3. Core Identification : Brown, Black, Gray
 4. Shield : Copper Tape
 5. Sheath : Flame-Retardant PVC
- ※ Above colors are basic colors and can be changed upon request.



- | | |
|---------|-------------------------|
| ①도체 | ①Conductor |
| ②내부반도전층 | ② Semi-Conductive layer |
| ③절연체 | ③XLPE |
| ④외부반도전층 | ④ Semi-Conductive layer |
| ⑤연동테이프 | ⑤Copper Tape |
| ⑥개재물 | ⑥Filler |
| ⑦바인더테이프 | ⑦Binder Tape |
| ⑧피복체 | ⑧Flame-Retardant PVC |

■ 단심Single Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
16	C.C.	4.7	3.4	1.5	18	1.150	21	430	300
25	C.C.	5.9	3.4	1.5	19	0.727	21	540	
35	C.C.	6.9	3.4	1.6	20.5	0.524	21	660	
50	C.C.	8.1	3.4	1.6	21.5	0.387	21	810	
70	C.C.	9.7	3.4	1.7	23	0.268	21	1030	
95	C.C.	11.3	3.4	1.7	25	0.193	21	1300	
120	C.C.	12.8	3.4	1.8	26.5	0.153	21	1570	
150	C.C.	14.4	3.4	1.8	28	0.124	21	1870	
185	C.C.	15.9	3.4	1.9	30	0.0991	21	2250	
240	C.C.	18.3	3.4	2.0	32.5	0.0754	21	2840	
300	C.C.	20.3	3.4	2.0	34.5	0.0601	21	3440	
400	C.C.	23.1	3.4	2.2	38	0.0470	21	4380	
500	C.C.	26.5	3.4	2.2	42	0.0366	21	5390	
630	C.C.	30.2	3.4	2.3	45.5	0.0283	21	6810	

※CC:원형 압축

■ 3심Three Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
16	C.C.	4.7	3.4	2.1	35.5	1.150	21	1440	300
25	C.C.	5.9	3.4	2.2	38.5	0.727	21	1830	
35	C.C.	6.9	3.4	2.3	40.5	0.524	21	2210	
50	C.C.	8.1	3.4	2.4	43.5	0.387	21	2720	
70	C.C.	9.7	3.4	2.5	47	0.268	21	3390	
95	C.C.	11.3	3.4	2.6	50.5	0.193	21	4300	
120	C.C.	12.8	3.4	2.7	54	0.153	21	5150	
150	C.C.	14.4	3.4	2.8	57.5	0.124	21	6120	
185	C.C.	15.9	3.4	2.9	61	0.0991	21	7320	
240	C.C.	18.3	3.4	3.1	67	0.0754	21	9210	
300	C.C.	20.3	3.4	3.3	71.5	0.0601	21	11150	

※CC:원형 압축

0.6/1kV 화재경보용내열전선, 0.6/1kV 소방용내화전선

K 60502-1, 대원표준

0.6/1kV Heat-Resistant Cable (0.6/1kV TFR-3, NFR-3) 0.6/1kV Fire-Proof Cable (0.6/1kV TFR-8, NFR-8)

100V 이하의비상경보설비의신호및통신용으로사용하
거나정격전압0.6/1kV 이하의옥내소화전설비의회로에
사용하는케이블이다.

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.

■ 구 조

- 1.도 체:전기용연동선(원형, 원형압축연선)
- 2.내 화 층:내화테이프
(0.6/1kV TFR-8, NFR-8)
- 3.절 연 체:XLPE, PE
- 4.선 심 식 별:착색또는색테이프

선심수	색
2 심	갈, 흑
3 심	갈, 흑, 회
4 심	갈, 흑, 회, 청

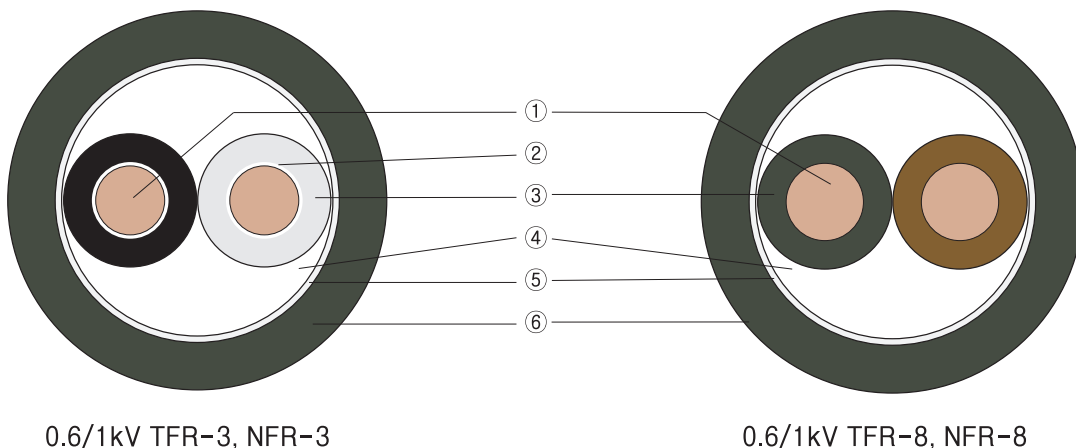
■ Construction

- 1.Conductor : Annealed copper Wire (Concentric Circular, Compact Circular)
- 2.Fire Retardant layer : Fire retardant tape
(0.6/1kV TFR-8, NFR-8)
- 3.Insulation : XLPE, PE
- 4.Core Identification : Colouring Method or
Color Tape

No. of cores	Colour
2 cores	Brown, Black
3 cores	Brown, Black, Gray
4 cores	Brown, Black, Gray, Blue

5. 피 복 체 : 난연성염화비닐수지, 무독성 난연 폴리올레핀
※ 상기 색상은 기본 색상이며, 요청에 의해 변경 가능함.

5. Sheath : Flame Retardant PVC
Halogen Free Flame Retardant Polyolefin
※ Above colors are basic colors and can be changed upon request.



- | | |
|---------|-------------------------|
| ① 도 체 | ① Conductor |
| ② 내화층 | ② Flame retardant layer |
| ③ 절연체 | ③ Insulation |
| ④ 개재물 | ④ Filler |
| ⑤ 내열보강층 | ⑤ Heat resistant layer |
| ⑥ 피복체 | ⑥ Sheath |

■ 0.6/1KV TFR-3, NFR-3(단선)

Nominal of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
2	1.5	1/1.38	1.38	0.7	1.8	9.5	12.1	3500	105	300
	2.5	1/1.78	1.78			10	7.41		130	
	4	1/2.25	2.25			11	4.61		170	
	6	1/2.76	2.76			12	3.08		225	
	10	1/3.57	3.57			14	1.83		320	
3	1.5	1/1.38	1.38	0.7	1.8	10	12.1	3500	125	300
	2.5	1/1.78	1.78			10.5	7.41		165	
	4	1/2.25	2.25			11.5	4.61		215	
	6	1/2.76	2.76			13	3.08		290	
	10	1/3.57	3.57			14.5	1.83		420	
4	1.5	1/1.38	1.38	0.7	1.8	10.5	12.1	3500	150	300
	2.5	1/1.78	1.78			11.5	7.41		200	
	4	1/2.25	2.25			12.5	4.61		270	
	6	1/2.76	2.76			14	3.08		355	
	10	1/3.57	3.57			16	1.83		535	
5	1.5	1/1.38	1.38	0.7	1.8	11.5	12.1	3500	170	300
	2.5	1/1.78	1.78			12.5	7.41		230	
	4	1/2.25	2.25			13.5	4.61		315	
	6	1/2.76	2.76			15	3.08		420	
	10	1/3.57	3.57			17.5	1.83		645	
6	1.5	1/1.38	1.38	0.7	1.8	12	12.1	3500	200	300
	2.5	1/1.78	1.78			13.5	7.41		265	
	4	1/2.25	2.25			15	4.61		370	
	6	1/2.76	2.76			16.5	3.08		515	
	10	1/3.57	3.57			19	1.83		765	
7	1.5	1/1.38	1.38	0.7	1.8	12	12.1	3500	210	300
	2.5	1/1.78	1.78			13.5	7.41		300	
	4	1/2.25	2.25			15	4.61		410	
	6	1/2.76	2.76			16.5	3.08		565	
	10	1/3.57	3.57			19	1.83		850	
8	1.5	1/1.38	1.38	0.7	1.8	13	12.1	3500	235	300
	2.5	1/1.78	1.78			14.5	7.41		320	
	4	1/2.25	2.25			16	4.61		465	
	6	1/2.76	2.76			17.5	3.08		640	
	10	1/3.57	3.57			20.5	1.83		960	
10	1.5	1/1.38	1.38	0.7	1.8	15	12.1	3500	295	300
	2.5	1/1.78	1.78			16.5	7.41		405	
	4	1/2.25	2.25			18.5	4.61		570	
	6	1/2.76	2.76			20.5	3.08		780	
	10	1/3.57	3.57			24	1.83		1220	
12	1.5	1/1.38	1.38	0.7	1.8	15.5	12.1	3500	335	300
	2.5	1/1.78	1.78			17	7.41		465	
	4	1/2.25	2.25			19	4.61		650	
	6	1/2.76	2.76			21	3.08		905	
	10	1/3.57	3.57			24.5	1.83		1420	
15	1.5	1/1.38	1.38	0.7	1.8	16.5	12.1	3500	395	300
	2.5	1/1.78	1.78			18.5	7.41		560	
	4	1/2.25	2.25			20.5	4.61		790	
	6	1/2.76	2.76			23	3.08		1100	
20	1.5	1/1.38	1.38	0.7	1.8	18.5	12.1	3500	490	300
	2.5	1/1.78	1.78			20.5	7.41		715	
	4	1/2.25	2.25			23	4.61		1050	
	6	1/2.76	2.76			25.5	3.08		1430	
25	1.5	1/1.38	1.38	0.7	1.8	21	12.1	3500	610	300
	2.5	1/1.78	1.78			23	7.41		870	
	4	1/2.25	2.25			26	4.61		1260	
30	1.5	1/1.38	1.38	0.7	1.8	22	12.1	3500	705	300
	2.5	1/1.78	1.78			24.5	7.41		1030	
	4	1/2.25	2.25			27.5	4.61		1480	

■ 0.6/1KV TFR-3, NFR-3 (연선)

Nominal of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
2	1.5	7/0.53	1.59	0.7	1.8	10	12.1	3500	110	300
	2.5	7/0.67	2.01			10.5	7.41		140	
	4	7/0.85	2.55			11.5	4.61		180	
	6	7/1.04	3.12			13	3.08		235	
	10	7/1.35	4.05			14.5	1.83		340	
3	1.5	7/0.53	1.59	0.7	1.8	10.5	12.1	3500	135	300
	2.5	7/0.67	2.01			11	7.41		170	
	4	7/0.85	2.55			12.5	4.61		225	
	6	7/1.04	3.12			13.5	3.08		305	
	10	7/1.35	4.05			15.5	1.83		450	
4	1.5	7/0.53	1.59	0.7	1.8	11	12.1	3500	160	300
	2.5	7/0.67	2.01			12	7.41		210	
	4	7/0.85	2.55			13.5	4.61		285	
	6	7/1.04	3.12			15	3.08		375	
	10	7/1.35	4.05			17	1.83		565	
5	1.5	7/0.53	1.59	0.7	1.8	12	12.1	3500	180	300
	2.5	7/0.67	2.01			13	7.41		240	
	4	7/0.85	2.55			14.5	4.61		330	
	6	7/1.04	3.12			16	3.08		460	
	10	7/1.35	4.05			18.5	1.83		680	
6	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3500	210	300
	2.5	7/0.67	2.01			14	7.41		280	
	4	7/0.85	2.55			16	4.61		385	
	6	7/1.04	3.12			17.5	3.08		540	
	10	7/1.35	4.05			20	1.83		810	
7	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3500	225	300
	2.5	7/0.67	2.01			14	7.41		315	
	4	7/0.85	2.55			15.5	4.61		440	
	6	7/1.04	3.12			17.5	3.08		590	
	10	7/1.35	4.05			20	1.83		890	
8	1.5	7/0.53	1.59	0.7	1.8	14	12.1	3500	250	300
	2.5	7/0.67	2.01			15	7.41		340	
	4	7/0.85	2.55			17	4.61		495	
	6	7/1.04	3.12			19	3.08		670	
	10	7/1.35	4.05			22	1.83		1010	
10	1.5	7/0.53	1.59	0.7	1.8	16	12.1	3500	315	300
	2.5	7/0.67	2.01			17.5	7.41		425	
	4	7/0.85	2.55			20	4.61		595	
	6	7/1.04	3.12			22	3.08		840	
	10	7/1.35	4.05			26	1.83		1290	
12	1.5	7/0.53	1.59	0.7	1.8	16.5	12.1	3500	360	300
	2.5	7/0.67	2.01			18	7.41		485	
	4	7/0.85	2.55			20.5	4.61		685	
	6	7/1.04	3.12			23	3.08		980	
	10	7/1.35	4.05			26.5	1.83		1500	
15	1.5	7/0.53	1.59	0.7	1.8	17.5	12.1	3500	425	300
	2.5	7/0.67	2.01			19.5	7.41		590	
	4	7/0.85	2.55			22	4.61		835	
	6	7/1.04	3.12			24.5	3.08		1185	
20	1.5	7/0.53	1.59	0.7	1.8	19.5	12.1	3500	530	300
	2.5	7/0.67	2.01			21.5	7.41		745	
	4	7/0.85	2.55			24.5	4.61		1080	
	6	7/1.04	3.12			27.5	3.08		1540	
25	1.5	7/0.53	1.59	0.7	1.8	22	12.1	3500	650	300
	2.5	7/0.67	2.01			24.5	7.41		920	
	4	7/0.85	2.55			28	4.61		1320	
30	1.5	7/0.53	1.59	0.7	1.8	23.5	12.1	3500	760	300
	2.5	7/0.67	2.01			26	7.41		1070	
	4	7/0.85	2.55			29.5	4.61		1570	

■ 0.6/1kV TFR-8, NFR-8

■ 단심Single Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Condcotor Resistance at 20℃ Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.4	6.5	12.1	3500	55	300
2.5	7/0.67	2.01			7	7.41		65	
4	7/0.85	2.55			7.5	4.61		85	
6	7/1.04	3.12			8	3.08		110	
10	7/1.35	4.05			9	1.83		150	
16	C.C.	4.7	9.5		1.15	210			
25	C.C.	5.9	0.9		11	0.727		310	
35	C.C.	6.9			12	0.524		410	
50	C.C.	8.1			1.0	13.5		0.387	
70	C.C.	9.7	1.1		15.5	0.268		740	
95	C.C.	11.3		1.5	17.5	0.193		1000	
120	C.C.	12.8	1.2		19	0.153		1240	
150	C.C.	14.4	1.4	1.6	21.5	0.124		1530	200
185	C.C.	15.9	1.6		23	0.0991		1900	
240	C.C.	18.3	1.7	1.7	26	0.0754		2450	
300	C.C.	20.3	1.8	1.8	28.5	0.0601		3040	
400	C.C.	23.1	2.0	1.9	32	0.0470		3930	150
500	C.C.	26.5	2.2	2.0	36	0.0366		4930	
630	C.C.	30.2	2.4	2.2	40.5	0.0283		6350	

※CC:원형 압축

■ 2심Two Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20 °C Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3500	135	300
2.5	7/0.67	2.01			12.5	7.41		170	
4	7/0.85	2.55			13.5	4.61		210	
6	7/1.04	3.12			14.5	3.08		265	
10	7/1.35	4.05			16.5	1.83		375	
16	C.C.	4.7			17.5	1.15		500	
25	C.C.	5.9	0.9		21	0.727		730	
35	C.C.	6.9			23	0.524		950	
50	C.C.	8.1	1.0		26	0.387		1270	
70	C.C.	9.7	1.1		29.5	0.268		1700	
95	C.C.	11.3			1.9	33		0.193	2270
120	C.C.	12.8	1.2		2.0	36.5		0.153	2820
150	C.C.	14.4	1.4	2.2	41	0.124	3510		
185	C.C.	15.9	1.6	2.3	45	0.0991	4320		
240	C.C.	18.3	1.7	2.5	50.5	0.0754	5570		
300	C.C.	20.3	1.8	2.6	55	0.0601	6860		

※CC:원형 압축

■ 3심Three Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20 °C Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	12	12.1	3500	165	300
2.5	7/0.67	2.01			13	7.41		210	
4	7/0.85	2.55			14	4.61		265	
6	7/1.04	3.12			15.5	3.08		345	
10	7/1.35	4.05			17.5	1.83		495	
16	C.C.	4.7			19	1.15		665	
25	C.C.	5.9	0.9		22.5	0.727		990	
35	C.C.	6.9			24.5	0.524		1300	
50	C.C.	8.1	1.0		27.5	0.387		1760	
70	C.C.	9.7	1.1		31.5	0.268		2380	
95	C.C.	11.3			2.0	35.5		0.193	
120	C.C.	12.8	1.2	2.1	39.5	0.153		3990	200
150	C.C.	14.4	1.4	2.3	44	0.124		4950	
185	C.C.	15.9	1.6	2.4	48	0.0991		6140	
240	C.C.	18.3	1.7	2.6	54	0.0754		7920	
300	C.C.	20.3	1.8	2.7	59	0.0601		9770	

※CC:원형 압축

■ 4심Four Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	13	12.1	3500	200	300
2.5	7/0.67	2.01			14	7.41		250	
4	7/0.85	2.55			15.5	4.61		325	
6	7/1.04	3.12			16.5	3.08		430	
10	7/1.35	4.05			19	1.83		615	
16	C.C.	4.7			20.5	1.15		850	
25	C.C.	5.9	0.9	2	24.5	0.727		1270	
35	C.C.	6.9			27	0.524		1680	
50	C.C.	8.1	1.0	1.9	30.5	0.387		2290	
70	C.C.	9.7	1.1		35	0.268		3110	
95	C.C.	11.3			39.5	0.193		4170	
120	C.C.	12.8	1.2	2.3	44	0.153		5220	200
150	C.C.	14.4	1.4	2.4	49	0.124		6450	
185	C.C.	15.9	1.6	2.6	53.5	0.0991		8010	
240	C.C.	18.3	1.7	2.8	60.5	0.0754		10350	
300	C.C.	20.3	1.8	3.0	66.5	0.0601		12810	

※CC:원형 압축

■ 0.6/1kV TFR-830 (830°C/120min/5분간격타격), 1심 (Single Core)

Conductor			Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Max Conductor Resistance	Test Voltage	Approx. Weight	Standard Length
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7 / 0.53	1.59	0.7	1.4	7.0	12.1	3500	60	300
2.5	7 / 0.67	2.01	0.7	1.4	7.5	7.41	3500	75	300
4	7 / 0.85	2.55	0.7	1.4	8.0	4.61	3500	95	300
6	7 / 1.04	3.12	0.7	1.4	8.5	3.08	3500	115	300
10	7 / 1.35	4.05	0.7	1.4	9.5	1.83	3500	165	300
16	C.C.	4.7	0.7	1.4	10.0	1.15	3500	225	300
25	C.C.	5.9	0.9	1.4	11.5	0.727	3500	325	300
35	C.C.	6.9	0.9	1.4	12.5	0.524	3500	425	300
50	C.C.	8.1	1.0	1.4	14.0	0.387	3500	565	300
70	C.C.	9.7	1.1	1.4	16.0	0.268	3500	755	300
95	C.C.	11.3	1.1	1.5	17.5	0.193	3500	1015	300
120	C.C.	12.8	1.2	1.5	19.5	0.153	3500	1260	300
150	C.C.	14.4	1.4	1.6	21.5	0.124	3500	1555	300
185	C.C.	15.9	1.6	1.6	23.5	0.0991	3500	1930	200
240	C.C.	18.3	1.7	1.7	26.5	0.0754	3500	2485	200
300	C.C.	20.3	1.8	1.8	28.5	0.0601	3500	3080	200
400	C.C.	23.1	2.0	1.9	32.0	0.0470	3500	3965	150
500	C.C.	26.5	2.2	2.0	36.0	0.0366	3500	4985	150
630	C.C.	30.2	2.4	2.2	40.5	0.0283	3500	6415	150

※ C.C. : 원형압축

■ 0.6/1kV TFR-830 (830°C/120min/5분간격타격), 2심 (Two Cores)

Conductor			Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Max Conductor Resistance	Test Voltage	Approx. Weight	Standard Length
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7 / 0.53	1.59	0.7	1.8	12.0	12.1	3500	155	300
2.5	7 / 0.67	2.01	0.7	1.8	13.0	7.41	3500	190	300
4	7 / 0.85	2.55	0.7	1.8	14.0	4.61	3500	235	300
6	7 / 1.04	3.12	0.7	1.8	15.0	3.08	3500	290	300
10	7 / 1.35	4.05	0.7	1.8	17.0	1.83	3500	405	300
16	C.C.	4.7	0.7	1.8	18.0	1.15	3500	535	300
25	C.C.	5.9	0.9	1.8	20.5	0.727	3500	750	300
35	C.C.	6.9	0.9	1.8	23.5	0.524	3500	995	300
50	C.C.	8.1	1.0	1.8	26.0	0.387	3500	1290	300
70	C.C.	9.7	1.1	1.8	29.5	0.268	3500	1735	300
95	C.C.	11.3	1.1	1.9	33.5	0.193	3500	2285	300
120	C.C.	12.8	1.2	2.0	37.0	0.153	3500	2860	300
150	C.C.	14.4	1.4	2.2	41.5	0.124	3500	3560	300
185	C.C.	15.9	1.6	2.3	45.5	0.0991	3500	4400	200
240	C.C.	18.3	1.7	2.5	51.0	0.0754	3500	5630	200
300	C.C.	20.3	1.8	2.6	55.5	0.0601	3500	6935	200

※ C.C. : 원형압축

■ 0.6/1kV TFR-830 (830°C/120min/5분간격타격), 3심 (Three Cores)

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance Ω/km(20°C)	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7 / 0.53	1.59	0.7	1.8	12.5	12.1	3500	185	300
2.5	7 / 0.67	2.01	0.7	1.8	13.5	7.41	3500	225	300
4	7 / 0.85	2.55	0.7	1.8	14.5	4.61	3500	290	300
6	7 / 1.04	3.12	0.7	1.8	16.0	3.08	3500	370	300
10	7 / 1.35	4.05	0.7	1.8	18.0	1.83	3500	520	300
16	C.C.	4.7	0.7	1.8	19.5	1.15	3500	700	300
25	C.C.	5.9	0.9	1.8	23.0	0.727	3500	1040	300
35	C.C.	6.9	0.9	1.8	25.0	0.524	3500	1355	300
50	C.C.	8.1	1.0	1.8	28.0	0.387	3500	1785	300
70	C.C.	9.7	1.1	1.9	32.0	0.268	3500	2425	300
95	C.C.	11.3	1.1	2.0	35.5	0.193	3500	3235	300
120	C.C.	12.8	1.2	2.1	39.5	0.153	3500	4040	300
150	C.C.	14.4	1.4	2.3	44.5	0.124	3500	5015	300
185	C.C.	15.9	1.6	2.4	48.5	0.0991	3500	6210	200
240	C.C.	18.3	1.7	2.6	54.5	0.0754	3500	7975	200
300	C.C.	20.3	1.8	2.7	59.5	0.0601	3500	9850	200

※ C.C. : 원형압축

■ 0.6/1kV TFR-830 (830°C/120min/5분간격타격), 4심 (Four Cores)

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance Ω/km(20°C)	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7 / 0.53	1.59	0.7	1.8	13.5	12.1	3500	215	300
2.5	7 / 0.67	2.01	0.7	1.8	14.5	7.41	3500	275	300
4	7 / 0.85	2.55	0.7	1.8	16.0	4.61	3500	350	300
6	7 / 1.04	3.12	0.7	1.8	17.5	3.08	3500	460	300
10	7 / 1.35	4.05	0.7	1.8	19.5	1.83	3500	655	300
16	C.C.	4.7	0.7	1.8	21.0	1.15	3500	885	300
25	C.C.	5.9	0.9	1.8	25.0	0.727	3500	1330	300
35	C.C.	6.9	0.9	1.8	27.5	0.524	3500	1730	300
50	C.C.	8.1	1.0	1.9	31.0	0.387	3500	2320	300
70	C.C.	9.7	1.1	2.0	35.5	0.268	3500	3150	300
95	C.C.	11.3	1.1	2.1	39.5	0.193	3500	4205	300
120	C.C.	12.8	1.2	2.3	44.0	0.153	3500	5275	300
150	C.C.	14.4	1.4	2.4	49.5	0.124	3500	6510	300
185	C.C.	15.9	1.6	2.6	54.0	0.0991	3500	8110	200
240	C.C.	18.3	1.7	2.8	61.0	0.0754	3500	10450	200
300	C.C.	20.3	1.8	3.0	66.5	0.0601	3500	12940	200

※ C.C. : 원형압축

■ 0.6/1kV TFR-830 (830°C/120min/5분간격타격), 5심 이상, 단선 (Solid) 제품

Number of Cores	Conductor			Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Max Conductor Resistance	Test Voltage	Approx. Weight	Standard Length
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
5	1.5	1 / 1.38	1.38	0.7	1.8	14.0	12.1	3500	245	300
	2.5	1 / 1.78	1.78			15.0	7.41		305	
	4	1 / 2.25	2.25			16.5	4.61		395	
6	1.5	1 / 1.38	1.38	0.7	1.8	15.0	12.1	3500	280	300
	2.5	1 / 1.78	1.78			16.5	7.41		355	
	4	1 / 2.25	2.25			18.0	4.61		460	
7	1.5	1 / 1.38	1.38	0.7	1.8	15.0	12.1	3500	295	300
	2.5	1 / 1.78	1.78			16.5	7.41		375	
	4	1 / 2.25	2.25			18.0	4.61		495	
8	1.5	1 / 1.38	1.38	0.7	1.8	16.5	12.1	3500	330	300
	2.5	1 / 1.78	1.78			17.5	7.41		425	
	4	1 / 2.25	2.25			19.0	4.61		560	
10	1.5	1 / 1.38	1.38	0.7	1.8	19.0	12.1	3500	395	300
	2.5	1 / 1.78	1.78			20.5	7.41		530	
	4	1 / 2.25	2.25			22.5	4.61		705	
12	1.5	1 / 1.38	1.38	0.7	1.8	19.5	12.1	3500	465	300
	2.5	1 / 1.78	1.78			21.0	7.41		605	
	4	1 / 2.25	2.25			23.0	4.61		810	
15	1.5	1 / 1.38	1.38	0.7	1.8	21.0	12.1	3500	545	300
	2.5	1 / 1.78	1.78			22.5	7.41		720	
	4	1 / 2.25	2.25			25.0	4.61		975	
20	1.5	1 / 1.38	1.38	0.7	1.8	23.0	12.1	3500	685	300
	2.5	1 / 1.78	1.78		1.9	25.0	7.41		915	
	4	1 / 2.25	2.25			28.0	4.61		1250	
30	1.5	1 / 1.38	1.38	0.7	1.9	28.0	12.1	3500	935	300
	2.5	1 / 1.78	1.78		2.0	30.5	7.41		1340	
	4	1 / 2.25	2.25		2.1	34.0	4.61		1850	

■ 0.6/1kV TFR-830 (830°C/120min/5분간격타격), 5심 이상, 연선 (Strand) 제품

Number of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance Ω/km(20°C)	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
5	1.5	7 / 0.53	1.59	0.7	1.8	14.5	12.1	3500	260	300
	2.5	7 / 0.67	2.01			16.0	7.41		320	
	4	7 / 0.85	2.55			17.5	4.61		415	
6	1.5	7 / 0.53	1.59	0.7	1.8	16.0	12.1	3500	300	300
	2.5	7 / 0.67	2.01			17.0	7.41		375	
	4	7 / 0.85	2.55			18.5	4.61		490	
7	1.5	7 / 0.53	1.59	0.7	1.8	16.0	12.1	3500	310	300
	2.5	7 / 0.67	2.01			17.0	7.41		395	
	4	7 / 0.85	2.55			17.5	4.61		490	
8	1.5	7 / 0.53	1.59	0.7	1.8	17.0	12.1	3500	350	300
	2.5	7 / 0.67	2.01			18.5	7.41		445	
	4	7 / 0.85	2.55			20.0	4.61		590	
10	1.5	7 / 0.53	1.59	0.7	1.8	19.5	12.1	3500	440	300
	2.5	7 / 0.67	2.01			21.5	7.41		560	
	4	7 / 0.85	2.55			23.5	4.61		745	
12	1.5	7 / 0.53	1.59	0.7	1.8	20.5	12.1	3500	495	300
	2.5	7 / 0.67	2.01			22.0	7.41		635	
	4	7 / 0.85	2.55			24.0	4.61		850	
15	1.5	7 / 0.53	1.59	0.7	1.8	22.0	12.1	3500	585	300
	2.5	7 / 0.67	2.01			23.5	7.41		760	
	4	7 / 0.85	2.55			26.0	4.61		1025	
20	1.5	7 / 0.53	1.59	0.7	1.8	24.0	12.1	3500	730	300
	2.5	7 / 0.67	2.01		1.8	26.5	7.41		955	
	4	7 / 0.85	2.55		1.9	29.5	4.61		1315	
30	1.5	7 / 0.53	1.59	0.7	1.9	29.0	12.1	3500	1060	300
	2.5	7 / 0.67	2.01		2.0	32.0	7.41		1415	
	4	7 / 0.85	2.55		2.1	35.5	4.61		1945	

■ 0.6/1kV NFR-830 (830°C/120min/5분간격타격), 1심 (Single Core)

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance $\Omega/\text{km}(20^{\circ}\text{C})$	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm^2	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7 / 0.53	1.59	0.7	1.4	7.0	12.1	3500	55	300
2.5	7 / 0.67	2.01	0.7	1.4	7.5	7.41	3500	70	300
4	7 / 0.85	2.55	0.7	1.4	8.0	4.61	3500	90	300
6	7 / 1.04	3.12	0.7	1.4	8.5	3.08	3500	110	300
10	7 / 1.35	4.05	0.7	1.4	9.5	1.83	3500	155	300
16	C.C.	4.7	0.7	1.4	10.0	1.15	3500	215	300
25	C.C.	5.9	0.9	1.4	11.5	0.727	3500	320	300
35	C.C.	6.9	0.9	1.4	12.5	0.524	3500	415	300
50	C.C.	8.1	1.0	1.4	14.0	0.387	3500	555	300
70	C.C.	9.7	1.1	1.4	16.0	0.268	3500	745	300
95	C.C.	11.3	1.1	1.5	17.5	0.193	3500	1005	300
120	C.C.	12.8	1.2	1.5	19.5	0.153	3500	1245	300
150	C.C.	14.4	1.4	1.6	21.5	0.124	3500	1540	300
185	C.C.	15.9	1.6	1.6	23.5	0.0991	3500	1905	200
240	C.C.	18.3	1.7	1.7	26.5	0.0754	3500	2460	200
300	C.C.	20.3	1.8	1.8	28.5	0.0601	3500	3055	200
400	C.C.	23.1	2.0	1.9	32.0	0.0470	3500	3930	150
500	C.C.	26.5	2.2	2.0	36.0	0.0366	3500	4945	150
630	C.C.	30.2	2.4	2.2	40.5	0.0283	3500	6365	150

※ C.C. : 원형압축

■ 0.6/1kV NFR-830 (830°C/120min/5분간격타격), 2심 (Two Cores)

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance $\Omega/\text{km}(20^{\circ}\text{C})$	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm^2	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7 / 0.53	1.59	0.7	1.8	12.0	12.1	3500	145	300
2.5	7 / 0.67	2.01	0.7	1.8	13.0	7.41	3500	175	300
4	7 / 0.85	2.55	0.7	1.8	14.0	4.61	3500	220	300
6	7 / 1.04	3.12	0.7	1.8	15.0	3.08	3500	275	300
10	7 / 1.35	4.05	0.7	1.8	17.0	1.83	3500	390	300
16	C.C.	4.7	0.7	1.8	18.0	1.15	3500	515	300
25	C.C.	5.9	0.9	1.8	21.5	0.727	3500	755	300
35	C.C.	6.9	0.9	1.8	23.5	0.524	3500	970	300
50	C.C.	8.1	1.0	1.8	26.0	0.387	3500	1265	300
70	C.C.	9.7	1.1	1.8	29.5	0.268	3500	1705	300
95	C.C.	11.3	1.1	1.9	33.5	0.193	3500	2250	300
120	C.C.	12.8	1.2	2.0	37.0	0.153	3500	2810	300
150	C.C.	14.4	1.4	2.2	41.5	0.124	3500	3495	300
185	C.C.	15.9	1.6	2.3	45.5	0.0991	3500	4340	200
240	C.C.	18.3	1.7	2.5	51.0	0.0754	3500	5560	200
300	C.C.	20.3	1.8	2.6	55.5	0.0601	3500	6855	200

※ C.C. : 원형압축

■ 0.6/1kV NFR-830 (830°C/120min/5분간격타격), 3심 (Three Cores)

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance Ω/km(20°C)	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7 / 0.53	1.59	0.7	1.8	12.5	12.1	3500	175	300
2.5	7 / 0.67	2.01	0.7	1.8	13.5	7.41	3500	210	300
4	7 / 0.85	2.55	0.7	1.8	14.5	4.61	3500	275	300
6	7 / 1.04	3.12	0.7	1.8	16.0	3.08	3500	355	300
10	7 / 1.35	4.05	0.7	1.8	18.0	1.83	3500	500	300
16	C.C.	4.7	0.7	1.8	19.5	1.15	3500	680	300
25	C.C.	5.9	0.9	1.8	23.0	0.727	3500	1020	300
35	C.C.	6.9	0.9	1.8	25.0	0.524	3500	1330	300
50	C.C.	8.1	1.0	1.8	28.0	0.387	3500	1760	300
70	C.C.	9.7	1.1	1.9	32.0	0.268	3500	2390	300
95	C.C.	11.3	1.1	2.0	35.5	0.193	3500	3195	300
120	C.C.	12.8	1.2	2.1	39.5	0.153	3500	3965	300
150	C.C.	14.4	1.4	2.3	44.5	0.124	3500	4930	300
185	C.C.	15.9	1.6	2.4	48.5	0.0991	3500	6145	200
240	C.C.	18.3	1.7	2.6	54.5	0.0754	3500	7895	200
300	C.C.	20.3	1.8	2.7	59.5	0.0601	3500	9760	200

※ C.C. : 원형압축

■ 0.6/1kV NFR-830 (830°C/120min/5분간격타격), 4심 (Four Cores)

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance Ω/km(20°C)	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7 / 0.53	1.59	0.7	1.8	13.5	12.1	3500	205	300
2.5	7 / 0.67	2.01	0.7	1.8	14.5	7.41	3500	265	300
4	7 / 0.85	2.55	0.7	1.8	16.0	4.61	3500	335	300
6	7 / 1.04	3.12	0.7	1.8	17.5	3.08	3500	440	300
10	7 / 1.35	4.05	0.7	1.8	19.5	1.83	3500	635	300
16	C.C.	4.7	0.7	1.8	21.0	1.15	3500	865	300
25	C.C.	5.9	0.9	1.8	24.0	0.727	3500	1260	300
35	C.C.	6.9	0.9	1.8	27.5	0.524	3500	1705	300
50	C.C.	8.1	1.0	1.9	31.0	0.387	3500	2290	300
70	C.C.	9.7	1.1	2.0	35.5	0.268	3500	3110	300
95	C.C.	11.3	1.1	2.1	39.5	0.193	3500	4160	300
120	C.C.	12.8	1.2	2.3	44.0	0.153	3500	5195	300
150	C.C.	14.4	1.4	2.4	49.5	0.124	3500	6430	300
185	C.C.	15.9	1.6	2.6	54.0	0.0991	3500	8020	200
240	C.C.	18.3	1.7	2.8	61.0	0.0754	3500	10350	200
300	C.C.	20.3	1.8	3.0	66.5	0.0601	3500	12825	200

※ C.C. : 원형압축

■ 0.6/1kV NFR-830 (830°C/120min/5분간격타격), 5심 이상, 단선 (Solid) 제품

Number of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance $\Omega/\text{km}(20^{\circ}\text{C})$	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm^2	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
5	1.5	1 / 1.38	1.38	0.7	1.8	14.0	12.1	3500	230	300
	2.5	1 / 1.78	1.78			15.0	7.41		290	
	4	1 / 2.25	2.25			16.5	4.61		380	
6	1.5	1 / 1.38	1.38	0.7	1.8	15.0	12.1	3500	265	300
	2.5	1 / 1.78	1.78			16.5	7.41		340	
	4	1 / 2.25	2.25			18.0	4.61		445	
7	1.5	1 / 1.38	1.38	0.7	1.8	15.0	12.1	3500	280	300
	2.5	1 / 1.78	1.78			16.5	7.41		360	
	4	1 / 2.25	2.25			18.0	4.61		480	
8	1.5	1 / 1.38	1.38	0.7	1.8	16.5	12.1	3500	315	300
	2.5	1 / 1.78	1.78			17.5	7.41		405	
	4	1 / 2.25	2.25			19.0	4.61		540	
10	1.5	1 / 1.38	1.38	0.7	1.8	19.0	12.1	3500	375	300
	2.5	1 / 1.78	1.78			20.5	7.41		510	
	4	1 / 2.25	2.25			22.5	4.61		680	
12	1.5	1 / 1.38	1.38	0.7	1.8	19.5	12.1	3500	445	300
	2.5	1 / 1.78	1.78			21.0	7.41		585	
	4	1 / 2.25	2.25			23.0	4.61		785	
15	1.5	1 / 1.38	1.38	0.7	1.8	21.0	12.1	3500	530	300
	2.5	1 / 1.78	1.78			22.5	7.41		700	
	4	1 / 2.25	2.25			25.0	4.61		950	
20	1.5	1 / 1.38	1.38	0.7	1.8	23.0	12.1	3500	665	300
	2.5	1 / 1.78	1.78			25.0	7.41		890	
	4	1 / 2.25	2.25		1.9	28.0	4.61		1220	
30	1.5	1 / 1.38	1.38	0.7	1.9	28.0	12.1	3500	905	300
	2.5	1 / 1.78	1.78		2.0	30.5	7.41		1310	
	4	1 / 2.25	2.25		2.1	34.0	4.61		1810	

■ 0.6/1kV NFR-830 (830°C/120min/5분간격타격), 5심 이상, 연선 (Strand) 제품

Number of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max Conductor Resistance Ω/km(20°C)	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
5	1.5	7 / 0.53	1.59	0.7	1.8	14.5	12.1	3500	245	300
	2.5	7 / 0.67	2.01			16.0	7.41		305	
	4	7 / 0.85	2.55			17.5	4.61		400	
6	1.5	7 / 0.53	1.59	0.7	1.8	16.0	12.1	3500	285	300
	2.5	7 / 0.67	2.01			17.0	7.41		360	
	4	7 / 0.85	2.55			18.5	4.61		470	
7	1.5	7 / 0.53	1.59	0.7	1.8	16.0	12.1	3500	295	300
	2.5	7 / 0.67	2.01			17.0	7.41		380	
	4	7 / 0.85	2.55			17.5	4.61		505	
8	1.5	7 / 0.53	1.59	0.7	1.8	17.0	12.1	3500	335	300
	2.5	7 / 0.67	2.01			18.5	7.41		425	
	4	7 / 0.85	2.55			20.0	4.61		570	
10	1.5	7 / 0.53	1.59	0.7	1.8	19.5	12.1	3500	420	300
	2.5	7 / 0.67	2.01			21.5	7.41		540	
	4	7 / 0.85	2.55			23.5	4.61		720	
12	1.5	7 / 0.53	1.59	0.7	1.8	20.5	12.1	3500	475	300
	2.5	7 / 0.67	2.01			22.0	7.41		610	
	4	7 / 0.85	2.55			24.0	4.61		830	
15	1.5	7 / 0.53	1.59	0.7	1.8	22.0	12.1	3500	560	300
	2.5	7 / 0.67	2.01			23.5	7.41		740	
	4	7 / 0.85	2.55			26.0	4.61		1000	
20	1.5	7 / 0.53	1.59	0.7	1.8	24.0	12.1	3500	710	300
	2.5	7 / 0.67	2.01		1.8	26.5	7.41		930	
	4	7 / 0.85	2.55		1.9	29.5	4.61		1285	
30	1.5	7 / 0.53	1.59	0.7	1.9	29.0	12.1	3500	1030	300
	2.5	7 / 0.67	2.01		2.0	32.0	7.41		1375	
	4	7 / 0.85	2.55		2.1	35.5	4.61		1900	

0.6/1kV 저독성 난연 제어용 케이블(0.6/1kV HF-CCO)

KS C IEC 60502-1
대원표준

0.6/1kV XLPE Insulated Halogen Free Flame Retardant Poly-Olefin Sheathed Control Cables

발전소, 변전소 등의 정격전압 0.6/1kV 이하의 원격 제어용 회로에 적합한 케이블로서 PVC 피복 제어케이블에 비하여 난연 특성이 우수하고 저독성으로 독소가스가 발생 치 않는다.

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

구 조

1. 도 체 : 전기용 연동선 (단선, 원형 연선)
2. 절 연 체 : XLPE
3. 선심식별 : 착색, 색별 테이프

Construction

1. Conductor : Annealed copper Wire
(Solid, Concentric Circular)
2. Insulation : XLPE
3. Core Identification : Colouring Method
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

* 번호 표시에 의한 식별

4. 피 복 체 : 저독성 난연 폴리에틸렌

* Numbering Method

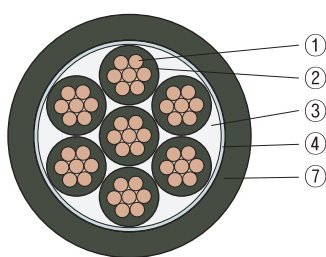
4. Sheath : Halogen free flame retardant
Poly-olefin

종류 및 기호

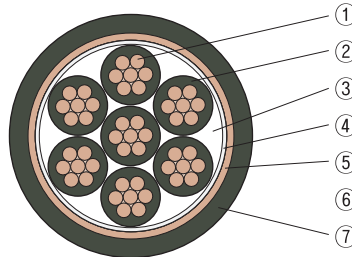
종 류	기 호
0.6/1kV 저독성 난연 제어용 케이블	0.6/1kV HF-CCO
- 동테이프 차폐 케이블	0.6/1kV HF-CCO-S
- 연동선 편조 차폐 케이블	0.6/1kV HF-CCO-SB

Class and Symbol

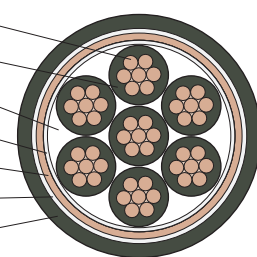
Class	Symbol
0.6/1kV XLPE insulated halogen free flame retardant poly-olefin sheathed control cables	0.6/1kV HF-CCO
- Copper Tape Shield	0.6/1kV HF-CCO-S
- Copper Wire Braided Shield	0.6/1kV HF-CCO-SB



0.6/1kV HF-CCO



0.6/1kV HF-CCO-SB



0.6/1kV HF-CCO-S

- | | |
|-----------|--|
| ① 도 체 | ① Conductor |
| ② 절연체 | ② Insulation |
| ③ 개재물 | ③ Filler |
| ④ 바인더 테이프 | ④ Binder Tape |
| ⑤ 차폐층 | ⑤ Shield (Copper Tape, Shield Braid) |
| ⑥ 바인더 테이프 | ⑥ Binder Tape |
| ⑦ 피복체 | ⑦ Halogen free flame retardant Poly-olefin |

0.6/1kV HF-CCO

Nominal of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
2	1.5	7/0.53	1.59	0.7	1.8	10.5	12.1	3500	110	300
	2.5	7/0.67	2.01	0.7		11	7.41		145	
	4	7/0.85	2.55	0.7		12.5	4.61		180	
	6	7/1.04	3.12	0.7		13.5	3.08		235	
	10	7/1.35	4.05	0.7		15.5	1.83		345	
3	1.5	7/0.53	1.59	0.7	1.8	11	12.1	3500	140	300
	2.5	7/0.67	2.01	0.7		11.5	7.41		175	
	4	7/0.85	2.55	0.7		13	4.61		230	
	6	7/1.04	3.12	0.7		14	3.08		305	
	10	7/1.35	4.05	0.7		16	1.83		450	
4	1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3500	165	300
	2.5	7/0.67	2.01	0.7		12.5	7.41		210	
	4	7/0.85	2.55	0.7		14	4.61		285	
	6	7/1.04	3.12	0.7		15.5	3.08		375	
	10	7/1.35	4.05	0.7		17.5	1.83		565	
5	1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	3500	185	300
	2.5	7/0.67	2.01	0.7		13.5	7.41		240	
	4	7/0.85	2.55	0.7		15	4.61		330	
	6	7/1.04	3.12	0.7		16.5	3.08		460	
	10	7/1.35	4.05	0.7		19	1.83		680	
6	1.5	7/0.53	1.59	0.7	1.8	13.5	12.1	3500	210	300
	2.5	7/0.67	2.01	0.7		14.5	7.41		285	
	4	7/0.85	2.55	0.7		16.5	4.61		390	
	6	7/1.04	3.12	0.7		18	3.08		545	
	10	7/1.35	4.05	0.7		21	1.83		810	
7	1.5	7/0.53	1.59	0.7	1.8	13.5	12.1	3500	225	300
	2.5	7/0.67	2.01	0.7		14.5	7.41		315	
	4	7/0.85	2.55	0.7		16.5	4.61		440	
	6	7/1.04	3.12	0.7		18	3.08		585	
	10	7/1.35	4.05	0.7		21	1.83		890	
8	1.5	7/0.53	1.59	0.7	1.8	14.5	12.1	3500	255	300
	2.5	7/0.67	2.01	0.7		15.5	7.41		340	
	4	7/0.85	2.55	0.7		17.5	4.61		500	
	6	7/1.04	3.12	0.7		19.5	3.08		670	
	10	7/1.35	4.05	0.7		22.5	1.83		1010	
10	1.5	7/0.53	1.59	0.7	1.8	16.5	12.1	3500	315	300
	2.5	7/0.67	2.01	0.7		18	7.41		430	
	4	7/0.85	2.55	0.7		20.5	4.61		600	
	6	7/1.04	3.12	0.7		22.5	3.08		840	
	10	7/1.35	4.05	0.7		26.5	1.83		1280	
12	1.5	7/0.53	1.59	0.7	1.8	17	12.1	3500	360	300
	2.5	7/0.67	2.01	0.7		18.5	7.41		485	
	4	7/0.85	2.55	0.7		21	4.61		690	
	6	7/1.04	3.12	0.7		23.5	3.08		975	
	10	7/1.35	4.05	0.7		27	1.83		1500	
15	1.5	7/0.53	1.59	0.7	1.8	18	12.1	3500	425	300
	2.5	7/0.67	2.01	0.7		20	7.41		590	
	4	7/0.85	2.55	0.7		22.5	4.61		840	
	6	7/1.04	3.12	0.7		25	3.08		1180	
20	1.5	7/0.53	1.59	0.7	1.8	20	12.1	3500	530	300
	2.5	7/0.67	2.01	0.7		22	7.41		750	
	4	7/0.85	2.55	0.7		25	4.61		1080	
	6	7/1.04	3.12	0.7		28	3.08		1540	
25	1.5	7/0.53	1.59	0.7	1.8	22.5	12.1	3500	655	300
	2.5	7/0.67	2.01	0.7		25	7.41		920	
	4	7/0.85	2.55	0.7		28.5	4.61		1320	
30	1.5	7/0.53	1.59	0.7	1.8	24	12.1	3500	760	300
	2.5	7/0.67	2.01	0.7		26.5	7.41		1080	
	4	7/0.85	2.55	0.7		30	4.61		1560	
40	1.5	7/0.53	1.59	0.7	1.8	26.5	12.1	3500	970	300
	2.5	7/0.67	2.01	0.7		29.5	7.41		1380	
50	1.5	7/0.53	1.59	0.7	1.8	29	12.1	3500	1200	300
	2.5	7/0.67	2.01	0.7	1.9	33	7.41		1710	

■ 0.6/1kV HF-CCO-S

Nominal of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
2	1.5	7/0.53	1.59	0.7	1.8	10	12.1	3500	120	300
	2.5	7/0.67	2.01	0.7		11	7.41		155	
	4	7/0.85	2.55	0.7		12	4.61		195	
	6	7/1.04	3.12	0.7		13	3.08		250	
	10	7/1.35	4.05	0.7		15	1.83		355	
3	1.5	7/0.53	1.59	0.7	1.8	11	12.1	3500	145	300
	2.5	7/0.67	2.01	0.7		11.5	7.41		185	
	4	7/0.85	2.55	0.7		12.5	4.61		240	
	6	7/1.04	3.12	0.7		14	3.08		320	
	10	7/1.35	4.05	0.7		16	1.83		470	
4	1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3500	175	300
	2.5	7/0.67	2.01	0.7		12.5	7.41		225	
	4	7/0.85	2.55	0.7		14	4.61		300	
	6	7/1.04	3.12	0.7		15	3.08		390	
	10	7/1.35	4.05	0.7		17.5	1.83		580	
5	1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	3500	195	300
	2.5	7/0.67	2.01	0.7		13.5	7.41		255	
	4	7/0.85	2.55	0.7		15	4.61		345	
	6	7/1.04	3.12	0.7		16.5	3.08		475	
	10	7/1.35	4.05	0.7		19	1.83		705	
6	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3500	220	300
	2.5	7/0.67	2.01	0.7		14.5	7.41		315	
	4	7/0.85	2.55	0.7		16.5	4.61		410	
	6	7/1.04	3.12	0.7		18	3.08		565	
	10	7/1.35	4.05	0.7		21	1.83		840	
7	1.5	7/0.53	1.59	0.7	1.8	13	12.1	3500	240	300
	2.5	7/0.67	2.01	0.7		14.5	7.41		330	
	4	7/0.85	2.55	0.7		16.5	4.61		460	
	6	7/1.04	3.12	0.7		18	3.08		615	
	10	7/1.35	4.05	0.7		21	1.83		920	
8	1.5	7/0.53	1.59	0.7	1.8	14.5	12.1	3500	265	300
	2.5	7/0.67	2.01	0.7		15.5	7.41		375	
	4	7/0.85	2.55	0.7		17.5	4.61		520	
	6	7/1.04	3.12	0.7		19.5	3.08		695	
	10	7/1.35	4.05	0.7		22.5	1.83		1040	
10	1.5	7/0.53	1.59	0.7	1.8	16.5	12.1	3500	335	300
	2.5	7/0.67	2.01	0.7		18	7.41		445	
	4	7/0.85	2.55	0.7		20.5	4.61		625	
	6	7/1.04	3.12	0.7		22.5	3.08		870	
	10	7/1.35	4.05	0.7		26.5	1.83		1320	
12	1.5	7/0.53	1.59	0.7	1.8	16.5	12.1	3500	375	300
	2.5	7/0.67	2.01	0.7		18.5	7.41		510	
	4	7/0.85	2.55	0.7		21	4.61		715	
	6	7/1.04	3.12	0.7		23	3.08		1010	
	10	7/1.35	4.05	0.7		27	1.83		1540	
15	1.5	7/0.53	1.59	0.7	1.8	18	12.1	3500	450	300
	2.5	7/0.67	2.01	0.7		20	7.41		610	
	4	7/0.85	2.55	0.7		22.5	4.61		870	
	6	7/1.04	3.12	0.7		25	3.08		1220	
	10	7/1.35	4.05	0.7		28	3.08		1580	
20	1.5	7/0.53	1.59	0.7	1.8	22.5	12.1	3500	680	300
	2.5	7/0.67	2.01	0.7		25	7.41		950	
	4	7/0.85	2.55	0.7		28.5	4.61		1360	
	6	7/1.04	3.12	0.7		30	4.61		1600	
	10	7/1.35	4.05	0.7		32.5	7.41		1750	
25	1.5	7/0.53	1.59	0.7	1.8	23.5	12.1	3500	790	300
	2.5	7/0.67	2.01	0.7		26.5	7.41		1110	
	4	7/0.85	2.55	0.7		30	4.61		1600	
	6	7/1.04	3.12	0.7		32.5	7.41		1750	
	10	7/1.35	4.05	0.7		35	7.41		1950	
30	1.5	7/0.53	1.59	0.7	1.8	26.5	12.1	3500	1010	300
	2.5	7/0.67	2.01	0.7		29.5	7.41		1540	
	4	7/0.85	2.55	0.7		32.5	7.41		1750	
	6	7/1.04	3.12	0.7		35	7.41		1950	
	10	7/1.35	4.05	0.7		37.5	7.41		2150	
40	1.5	7/0.53	1.59	0.7	1.8	29	12.1	3500	1230	300
	2.5	7/0.67	2.01	0.7		32.5	7.41		1750	
	4	7/0.85	2.55	0.7		35	7.41		1950	
	6	7/1.04	3.12	0.7		37.5	7.41		2150	
	10	7/1.35	4.05	0.7		40	7.41		2350	
50	1.5	7/0.53	1.59	0.7	1.8	32.5	12.1	3500	1750	300
	2.5	7/0.67	2.01	0.7		35	7.41		1950	
	4	7/0.85	2.55	0.7		37.5	7.41		2150	
	6	7/1.04	3.12	0.7		40	7.41		2350	
	10	7/1.35	4.05	0.7		42.5	7.41		2550	

■ 0.6/1kV HF-CCO-SB

Nominal of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20℃ Ω/km	Test Voltage V/5min	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
2	1.5	7/0.53	1.59	0.7	1.8	10.5	12.1	3500	130	300
	2.5	7/0.67	2.01	0.7		11	7.41		165	
	4	7/0.85	2.55	0.7		12.5	4.61		205	
	6	7/1.04	3.12	0.7		13.5	3.08		260	
	10	7/1.35	4.05	0.7		15.5	1.83		380	
3	1.5	7/0.53	1.59	0.7	1.8	11	12.1	3500	155	300
	2.5	7/0.67	2.01	0.7		11.5	7.41		190	
	4	7/0.85	2.55	0.7		13	4.61		255	
	6	7/1.04	3.12	0.7		14	3.08		340	
	10	7/1.35	4.05	0.7		16	1.83		490	
4	1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3500	185	300
	2.5	7/0.67	2.01	0.7		12.5	7.41		235	
	4	7/0.85	2.55	0.7		14	4.61		315	
	6	7/1.04	3.12	0.7		15.5	3.08		415	
	10	7/1.35	4.05	0.7		17.5	1.83		610	
5	1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	3500	205	300
	2.5	7/0.67	2.01	0.7		13.5	7.41		270	
	4	7/0.85	2.55	0.7		15	4.61		370	
	6	7/1.04	3.12	0.7		16.5	3.08		500	
	10	7/1.35	4.05	0.7		19	1.83		730	
6	1.5	7/0.53	1.59	0.7	1.8	13.5	12.1	3500	240	300
	2.5	7/0.67	2.01	0.7		15	7.41		320	
	4	7/0.85	2.55	0.7		16.5	4.61		430	
	6	7/1.04	3.12	0.7		18	3.08		590	
	10	7/1.35	4.05	0.7		21	1.83		865	
7	1.5	7/0.53	1.59	0.7	1.8	15	12.1	3500	350	300
	2.5	7/0.67	2.01	0.7		15	7.41		350	
	4	7/0.85	2.55	0.7		16.5	4.61		480	
	6	7/1.04	3.12	0.7		18	3.08		640	
	10	7/1.35	4.05	0.7		21	1.83		955	
8	1.5	7/0.53	1.59	0.7	1.8	14.5	12.1	3500	290	300
	2.5	7/0.67	2.01	0.7		16	7.41		465	
	4	7/0.85	2.55	0.7		17.5	4.61		540	
	6	7/1.04	3.12	0.7		19.5	3.08		720	
	10	7/1.35	4.05	0.7		22.5	1.83		1090	
10	1.5	7/0.53	1.59	0.7	1.8	16.5	12.1	3500	355	300
	2.5	7/0.67	2.01	0.7		18.5	7.41		475	
	4	7/0.85	2.55	0.7		20.5	4.61		650	
	6	7/1.04	3.12	0.7		23	3.08		915	
	10	7/1.35	4.05	0.7		26.5	1.83		1380	
12	1.5	7/0.53	1.59	0.7	1.8	17	12.1	3500	405	300
	2.5	7/0.67	2.01	0.7		19	7.41		535	
	4	7/0.85	2.55	0.7		21	4.61		745	
	6	7/1.04	3.12	0.7		23.5	3.08		1060	
	10	7/1.35	4.05	0.7		27.5	1.83		1600	
15	1.5	7/0.53	1.59	0.7	1.8	18	12.1	3500	470	300
	2.5	7/0.67	2.01	0.7		20	7.41		640	
	4	7/0.85	2.55	0.7		22.5	4.61		910	
	6	7/1.04	3.12	0.7		25.5	3.08		1010	
	10	7/1.35	4.05	0.7		28.5	1.83		1430	
20	1.5	7/0.53	1.59	0.7	1.8	20	12.1	3500	580	300
	2.5	7/0.67	2.01	0.7		22.5	7.41		820	
	4	7/0.85	2.55	0.7		25	4.61		1160	
	6	7/1.04	3.12	0.7		28.5	3.08		1640	
	10	7/1.35	4.05	0.7		30	1.83		2250	
25	1.5	7/0.53	1.59	0.7	1.8	23	12.1	3500	725	300
	2.5	7/0.67	2.01	0.7		25.5	7.41		1010	
	4	7/0.85	2.55	0.7		28.5	4.61		1430	
	6	7/1.04	3.12	0.7		30	3.08		1720	
	10	7/1.35	4.05	0.7		33.5	1.83		2450	
30	1.5	7/0.53	1.59	0.7	1.8	24	12.1	3500	835	300
	2.5	7/0.67	2.01	0.7		27	7.41		1180	
	4	7/0.85	2.55	0.7		30.5	4.61		1640	
	6	7/1.04	3.12	0.7		33.5	3.08		2250	
	10	7/1.35	4.05	0.7		36.5	1.83		3050	
40	1.5	7/0.53	1.59	0.7	1.8	27	12.1	3500	1070	300
	2.5	7/0.67	2.01	0.7		30	7.41		1550	
	4	7/0.85	2.55	0.7		33.5	4.61		2150	
	6	7/1.04	3.12	0.7		36.5	3.08		2950	
	10	7/1.35	4.05	0.7		39.5	1.83		3950	
50	1.5	7/0.53	1.59	0.7	1.8	30	12.1	3500	1350	300
	2.5	7/0.67	2.01	0.7		33.5	7.41		1890	
	4	7/0.85	2.55	0.7		36.5	4.61		2650	
	6	7/1.04	3.12	0.7		39.5	3.08		3650	
	10	7/1.35	4.05	0.7		42.5	1.83		4950	

0.6/1kV 저독성난연전력용케이블(0.6/1kV HF-CO)

KS C IEC 60502-1

0.6/1kV XLPE Insulated Halogen Free Flame Retardant Poly-Olefin Sheathed Power Cable

0.6/1kV의전력회로에사용하며전기적, 물리적, 화학적특성
이우수하며, PVC 피복전력케이블에비하여난연특성이우
수하고저독성으로독소가스가발생치않는다.

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

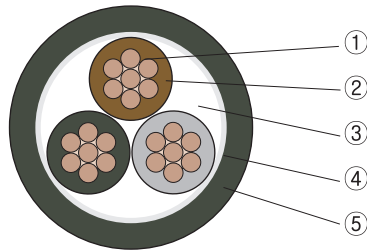
구 조

- 도 체 : 전기용연동선 (원형, 원형압축연선)
- 절 연 체 : XLPE
- 선심식별 : 착색또는색테이프

선심수	색
2 심	갈, 흑
3 심	갈, 흑, 회
4 심	갈, 흑, 회, 청

- 피 복 체 : 저독성난연폴리올레핀

※ 상기 색상은 기본 색상이며, 요청에 의해 변경 가능한.



Construction

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

No. of cores	Colour
2 cores	Brown, Black
3 cores	Brown, Black, Gray
4 cores	Brown, Black, Gray, Blue

- Sheath : Halogen free flame retardant
Poly-olefin

※ Above colors are basic colors and can be changed upon request.

- | | |
|-----------|---|
| ① 도 체 | ① Conductor |
| ② 절연체 | ② XLPE |
| ③ 개재물 | ③ Filler |
| ④ 바인더 테이프 | ④ Binder Tape |
| ⑤ 피복체 | ⑤ Halogen free flame
retardant Poly-olefin |

단심Single Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Condctor Resistance at 20℃ Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m	
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm								
1.5	7/0.53	1.59	0.7	1.4	6.0	12.1	3500	50	300	
2.5	7/0.67	2.01			6.4	7.41		60		
4	7/0.85	2.55			7.0	4.61		80		
6	7/1.04	3.12			7.5	3.08		100		
10	7/1.35	4.05			8.5	1.83		150		
16	C.C.	4.7			9.5	1.15		205		
25	C.C.	5.9	0.9	1.5	11	0.727		305		
35	C.C.	6.9			12	0.524		400		
50	C.C.	8.1			13.5	0.387		540		
70	C.C.	9.7	1.1		15	0.268		725		
95	C.C.	11.3			17	0.193		980		
120	C.C.	12.8	1.2		18.5	0.153		1220		
150	C.C.	14.4	1.4		1.6	21		0.124	1510	
185	C.C.	15.9	1.6			22.5		0.0991	1880	
240	C.C.	18.3	1.7			25.5		0.0754	2430	
300	C.C.	20.3	1.8		1.8	28		0.0601	3020	200
400	C.C.	23.1	2.0		1.9	31.5		0.0470	3890	
500	C.C.	26.5	2.2		2.0	35.5		0.0366	4910	
630	C.C.	30.2	2.4		2.2	40		0.0283	6320	

※CC:원형 압축

■ 2심Two Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20 °C Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	10.5	12.1	3500	110	300
2.5	7/0.67	2.01			11	7.41		145	
4	7/0.85	2.55			12.5	4.61		180	
6	7/1.04	3.12			13.5	3.08		235	
10	7/1.35	4.05			15.5	1.83		345	
16	C.C.	4.7			16.5	1.15		465	
25	C.C.	5.9	0.9	1.9	20	0.727		690	
35	C.C.	6.9			22	0.524		890	
50	C.C.	8.1	1.0		24.5	0.387		1210	
70	C.C.	9.7	1.1		28	0.268		1630	
95	C.C.	11.3			32	0.193		2190	
120	C.C.	12.8	1.2	2.0	35.5	0.153		2730	200
150	C.C.	14.4	1.4	2.2	40	0.124		3390	
185	C.C.	15.9	1.6	2.3	44	0.0991		4230	
240	C.C.	18.3	1.7	2.5	49.5	0.0754		5450	
300	C.C.	20.3	1.8	2.6	54	0.0601		6680	

※CC:원형 압축

■ 3심Three Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20°C Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	11	12.1	3500	135	300
2.5	7/0.67	2.01			11.5	7.41		175	
4	7/0.85	2.55			13	4.61		230	
6	7/1.04	3.12			14	3.08		305	
10	7/1.35	4.05			16	1.83		440	
16	C.C.	4.7			17.5	1.15		620	
25	C.C.	5.9	0.9		21	0.727		945	
35	C.C.	6.9			23	0.524		1250	
50	C.C.	8.1	1.0		26	0.387		1690	
70	C.C.	9.7	1.1		30.5	0.268		2290	
95	C.C.	11.3			2.0	34		0.193	
120	C.C.	12.8	1.2	2.1	38	0.153		3870	200
150	C.C.	14.4	1.4	2.3	42.5	0.124		4790	
185	C.C.	15.9	1.6	2.4	47	0.0991		6000	
240	C.C.	18.3	1.7	2.6	53	0.0754		7740	
300	C.C.	20.3	1.8	2.7	58	0.0601		9540	

※CC:원형 압축

■ 4심Four Core

Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Approx. Overall Diameter mm	Max. Conductor Resistance at 20°C Ω/km	Test Voltage V/5min.	Approx. Weight kg/km	Standard Length m
Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Approx. Outer Diameter mm							
1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3500	165	300
2.5	7/0.67	2.01			12.5	7.41		210	
4	7/0.85	2.55			14	4.61		285	
6	7/1.04	3.12			15.5	3.08		375	
10	7/1.35	4.05			17.5	1.83		555	
16	C.C.	4.7			19	1.15		790	
25	C.C.	5.9	0.9		23	0.727		1200	
35	C.C.	6.9			25.5	0.524		1600	
50	C.C.	8.1	1.0	1.9	29	0.387		2200	
70	C.C.	9.7	1.1	2	33.5	0.268		2990	
95	C.C.	11.3		2.1	38	0.193		4050	
120	C.C.	12.8	1.2	2.3	42.5	0.153		5040	
150	C.C.	14.4	1.4	2.4	47.5	0.124		6280	
185	C.C.	15.9	1.6	2.6	52.5	0.0991		7860	
240	C.C.	18.3	1.7	2.8	59	0.0754		10140	200
300	C.C.	20.3	1.8	3.0	65	0.0601		12610	

※CC:원형압축

6/10kV 저독성 난연 전력용 케이블(6/10kV HF-CO) KS C IEC 60502-2

6/10kV XLPE Insulated Halogen Free Flame Retardant Power Cable

6/10kV의 전력회로에 사용하며 전기적, 물리적, 비하여 난연 특성이 매우 우수하고 저독성으로 화학적 특성이 우수하며, PVC 피복 전력 케이블에 독소 가스가 발생치 않는다.

구 조

1. 도 체 : 전기용연동성(원형 압축)
 2. 절 연 체 : XLPE
 3. 선심식별 : 갈색, 흑색, 회색
 4. 차 폐 : 연동테이프
 5. 피 복 체 : 저독성 난연 폴리올레핀
- ※ 상기 색상은 기본 색상이며, 요청에 의해 변경 가능함.

종류 및 기호

종 류	기 호
6/10kV 저독성 난연 전력용 케이블	6/10kV HF-CO

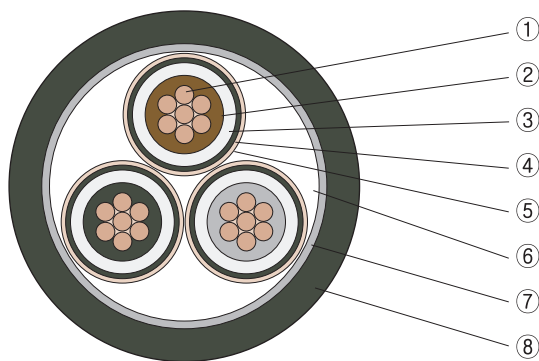
This cable is designed for the purpose of using in power distribution line, having excellent smoking nontoxic and flame retardant.

Construction

1. Conductor : Annealed copper Wire
(Compact Circular)
 2. Insulation : XLPE
 3. Core Identification : Brown, Black, Gray
 4. Shield : Copper Tape
 5. Sheath : Halogen free flame retardant polyolefin
- ※ Above colors are basic colors and can be changed upon request.

Class and Symbols

Class	Symbols
6/10kV XLPE insulated halogen free flame retardant poly olefin sheathed power cables	6/10kV HF-CO



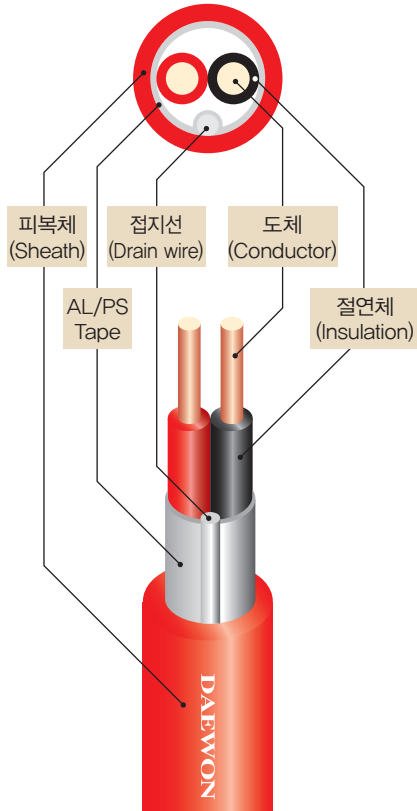
- | | |
|-----------|--|
| ① 도 체 | ① Conductor |
| ② 내부 반도체층 | ② Semi-Conductive layer |
| ③ 절연체 | ③ XLPE |
| ④ 외부반도체층 | ④ Semi-Conductive layer |
| ⑤ 연동 테이프 | ⑤ Copper Tape |
| ⑥ 개재물 | ⑥ Filler |
| ⑦ 바인더 테이프 | ⑦ Binder Tape |
| ⑧ 피복체 | ⑧ Halogen free flame retardant Poly-olefin |

■ 6/10kV HF-CO

Number of Cores	Conductor			Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Apporx. Overall Diameter mm	Max. Conductor Resistance at 20°C Ω/km	Test Voltage KV/5min.	Approx. Weight kg/km	Standard Length m
	Nominal Sectional Area mm ²	Number & Diameter of Wire No./mm	Apporx. Outer Diameter mm							
Single	16	C.C.	4.7	3.4	1.5	18.5	1.150	21	430	300
	25	C.C.	5.9	3.4	1.5	19.5	0.727	21	545	
	35	C.C.	6.9	3.4	1.6	20.5	0.524	21	660	
	50	C.C.	8.1	3.4	1.6	22	0.387	21	825	
	70	C.C.	9.7	3.4	1.7	23.5	0.268	21	1030	
	95	C.C.	11.3	3.4	1.7	25.5	0.193	21	1310	
	120	C.C.	12.8	3.4	1.8	27	0.153	21	1580	
	150	C.C.	14.4	3.4	1.8	28.5	0.124	21	1870	
	185	C.C.	15.9	3.4	1.9	30	0.0991	21	2250	
	240	C.C.	18.3	3.4	2.0	33	0.0754	21	2850	
	300	C.C.	20.3	3.4	2.0	35	0.0601	21	3340	
	400	C.C.	23.1	3.4	2.2	38.5	0.0470	21	4390	
	500	C.C.	26.5	3.4	2.2	42.5	0.0366	21	5390	
	630	C.C.	30.2	3.4	2.3	46	0.0283	21	6810	
3	16	C.C.	4.7	3.4	2.1	36	1.150	21	1440	300
	25	C.C.	5.9	3.4	2.2	39	0.727	21	1820	
	35	C.C.	6.9	3.4	2.3	41	0.524	21	2210	
	50	C.C.	8.1	3.4	2.4	44	0.387	21	2720	
	70	C.C.	9.7	3.4	2.5	47.5	0.268	21	3390	
	95	C.C.	11.3	3.4	2.6	51	0.193	21	4340	
	120	C.C.	12.8	3.4	2.7	54.5	0.153	21	5150	
	150	C.C.	14.4	3.4	2.8	58.5	0.124	21	6120	
	185	C.C.	15.9	3.4	2.9	61.5	0.0991	21	7320	
	240	C.C.	18.3	3.4	3.1	67.5	0.0754	21	9260	
	300	C.C.	20.3	3.4	3.3	72.5	0.0601	21	11200	

UL Style No. 2095(-AMS)

컴퓨터 케이블(Computer Cable) – Pair Type



제품의 용도

- 전기 전자기기의 신호 전송용
- 소방용 알람 및 신호 전송용

제품의 특성

- 케이블 정격 : (UL) 300V 80°C
(CSA) 300V 80°C
- 적용규격 : UL Subject 758
CSA C22.2
- 난연성 : (UL) VW-1
(CSA) FT1

표준조장

- 300m

Application

- A signal transmission of electronic computer and electric equipment, Fire alarm and signal transmission.

Characteristics of Product

- Cable rating : (UL) 300V 80°C
(CSA) 300V 80°C
- Standard : UL Subject 758
CSA C22.2
- Flame retardant : (UL) VW-1
(CSA) FT1

Unit length

- 300m

인쇄 (Marking)

DAEWON E331577  AWM 2095(-AMS) 80°C 300V VW-1 **AWG x *PR RoHS

페어수 No. of Pair	도체 (Conductor)		절연체 (Insulation)		차폐 Tape	접지선 Drain wire	피복체 (Sheath)	
	규격 AWG	구성 Construction (mm)	두께 Thickness (mm)	외경 Diameter (mm)			두께 Thickness (mm)	외경 Diameter (mm)
1	18	1.02 A	0.4	1.8	AL/PS Tape	22AWG (17/0.16 TA)	0.8	5.3
2	18	1.02 A	0.4	1.8			1.2	8.6
1	16	1.29 A	0.4	2.1			1.0	6.3
2	16	1.29 A	0.4	2.1			1.3	9.7
1	14	1.63 A (41/0.254 TA)	0.8	3.2			1.2	9.0

※ Construction of conductor may be change by purchaser's requirement

※ Option : Filler