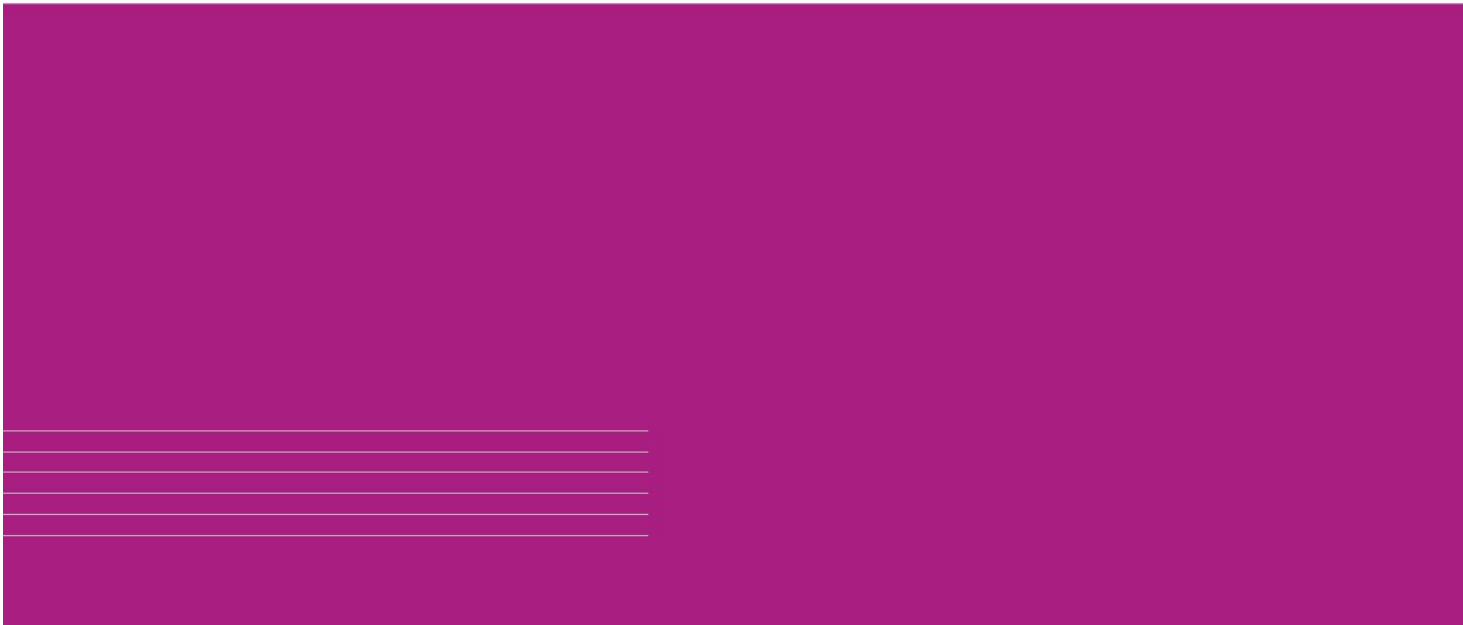


# 소방용 케이블 Fire Protection Cable

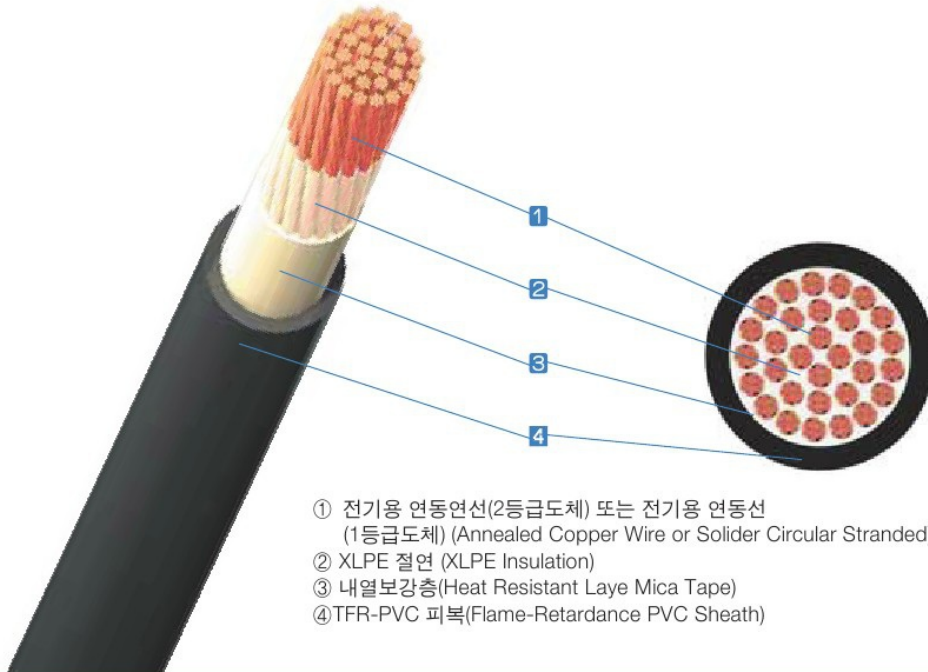
0.6/1kV 트레이용 화재경보용 난연내열케이블 TFR-3  
0.6/1kV Tray Heat Resistant Control & Signal Cable for fire Service

0.6/1kV 트레이용 난연 내화케이블 TFR-8  
0.6/1kV Tray Flame Resistant Power Cable for Fire Service



# 0.6/1kV 트레이용 화재경보용 난연내열케이블

**(TFR-3)** 0.6/1kV Tray Heat Resistant Control & Signal Cable for fire Service



## ■ 용도

화재경보 및 비상경보장치의 회로에 사용되는 제어, 신호용 케이블이다.

## ■ USE

This cable is used for operation and interconnection of fire alarm and emergency information equipment.

선심수 No. of Cores c	도 체 Conductor		절연체 두께 Insulation Thickness mm	시스두께 Sheath Thickness mm	완성외경 Overall Diameter mm	도체저항 (20℃) Conductor Resistance at 20℃ Ω/km	시험전압 Test Voltage kV	개산중량 Approx. Weigh kg/km
	공칭 단면적 Nominal Sectional Area mm <sup>2</sup>	등급 Class						
2	1.5	1	0.7	1.8	11.0	12.1	3.5	140
	2.5	1	0.7	1.8	12.0	7.41	3.5	170
	4	1	0.7	1.8	13.0	4.61	3.5	210
3	1.5	1	0.7	1.8	11.5	12.1	3.5	160
	2.5	1	0.7	1.8	12.5	7.41	3.5	210
	4	1	0.7	1.8	13.5	4.61	3.5	260
4	1.5	1	0.7	1.8	12	12.1	3.5	200
	2.5	1	0.7	1.8	13	7.41	3.5	250
	4	1	0.7	1.8	14.5	4.61	3.5	320
5	1.5	1	0.7	1.8	13.0	12.1	3.5	230
	2.5	1	0.7	1.8	14.0	7.41	3.5	290
	4	1	0.7	1.8	15.5	4.61	3.5	390
6	1.5	1	0.7	1.8	14.0	12.1	3.5	260
	2.5	1	0.7	1.8	15.0	7.41	3.5	340
	4	1	0.7	1.8	16.5	4.61	3.5	450
7	1.5	1	0.7	1.8	14.0	12.1	3.5	280
	2.5	1	0.7	1.8	15.0	7.41	3.5	360
	4	1	0.7	1.8	15.5	4.61	3.5	490
8	1.5	1	0.7	1.8	15.0	12.1	3.5	320
	2.5	1	0.7	1.8	16.0	7.41	3.5	420
	4	1	0.7	1.8	18.5	4.61	3.5	560
10	1.5	1	0.7	1.8	17.0	12.1	3.5	380
	2.5	1	0.7	1.8	18.5	7.41	3.5	500
	4	1	0.7	1.8	20.5	4.61	3.5	690
12	1.5	1	0.7	1.8	17.5	12.1	3.5	430
	2.5	1	0.7	1.8	19.0	7.41	3.5	570
	4	1	0.7	1.8	21.0	4.61	3.5	780
15	1.5	1	0.7	1.8	19.0	12.1	3.5	510
	2.5	1	0.7	1.8	20.5	7.41	3.5	690
	4	1	0.7	1.8	23.0	4.61	3.5	950
20	1.5	1	0.7	1.8	20.5	12.1	3.5	650
	2.5	1	0.7	1.8	23.0	7.41	3.5	880
	4	1	0.7	1.8	25.5	4.61	3.5	1230
30	1.5	1	0.7	1.8	24.0	12.1	3.5	910
	2.5	1	0.7	1.8	26.5	7.41	3.5	1250
	4	1	0.7	1.8	29.5	4.61	3.5	1750

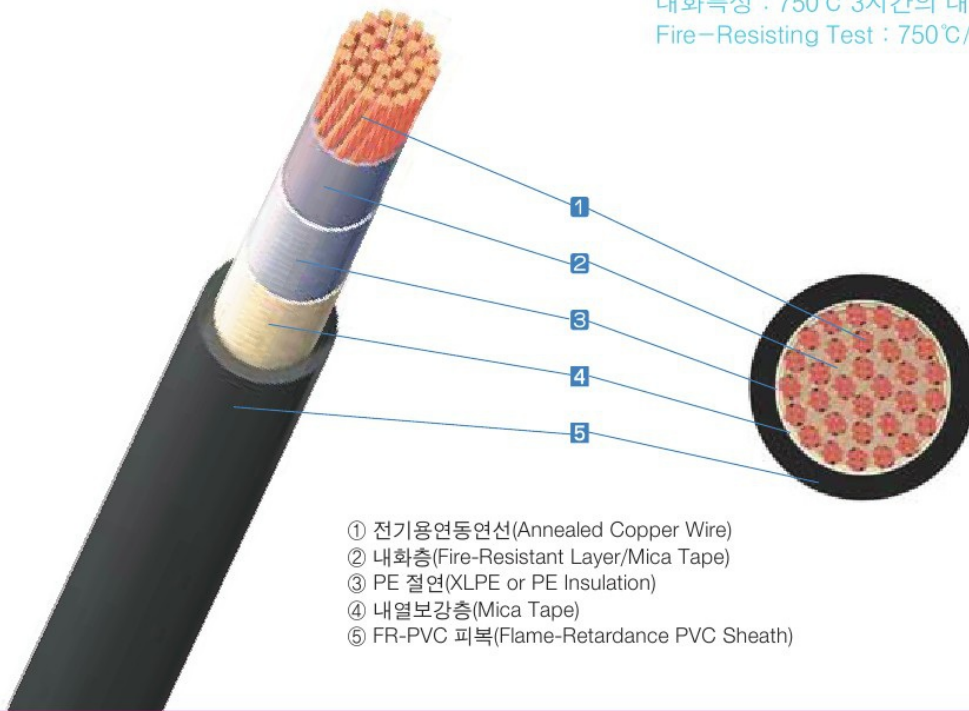
· 도체등급 : Class1(단선 : Solid), Class2(연선 : Stranded)

선심수 No. of Cores c	도 체 Conductor		절연체 두께 Insulation Thickness mm	시스두께 Sheath Thickness mm	완성외경 Overall Diameter mm	도체저항 (20℃) Conductor Resistance at 20℃ Ω/km	시험전압 Test Voltage kV	개산중량 Approx. Weighth kg/km
	공칭 단면적 Nominal Sectional Area mm <sup>2</sup>	등급 Class						
2	1.5	2	0.7	1.8	11.5	12.1	3.5	140
	2.5	2	0.7	1.8	12.0	7.41	3.5	170
	4	2	0.7	1.8	13.5	4.61	3.5	220
3	1.5	2	0.7	1.8	12.0	12.1	3.5	170
	2.5	2	0.7	1.8	13.0	7.41	3.5	210
	4	2	0.7	1.8	14.0	4.61	3.5	270
4	1.5	2	0.7	1.8	12.5	12.1	3.5	200
	2.5	2	0.7	1.8	13.5	7.41	3.5	260
	4	2	0.7	1.8	15.0	4.61	3.5	330
5	1.5	2	0.7	1.8	13.5	12.1	3.5	240
	2.5	2	0.7	1.8	14.5	7.41	3.5	300
	4	2	0.7	1.8	16.0	4.61	3.5	400
6	1.5	2	0.7	1.8	14.5	12.1	3.5	270
	2.5	2	0.7	1.8	16.0	7.41	3.5	350
	4	2	0.7	1.8	17.5	4.61	3.5	460
7	1.5	2	0.7	1.8	14.5	12.1	3.5	290
	2.5	2	0.7	1.8	16.0	7.41	3.5	380
	4	2	0.7	1.8	17.5	4.61	3.5	500
8	1.5	2	0.7	1.8	16.0	12.1	3.5	330
	2.5	2	0.7	1.8	17.5	7.41	3.5	430
	4	2	0.7	1.8	19.0	4.61	3.5	580
10	1.5	2	0.7	1.8	17.5	12.1	3.5	400
	2.5	2	0.7	1.8	19.5	7.41	3.5	520
	4	2	0.7	1.8	21.5	4.61	3.5	710
12	1.5	2	0.7	1.8	18.0	12.1	3.5	450
	2.5	2	0.7	1.8	20.0	7.41	3.5	590
	4	2	0.7	1.8	22.0	4.61	3.5	810
15	1.5	2	0.7	1.8	20.0	12.1	3.5	540
	2.5	2	0.7	1.8	22.0	7.41	3.5	710
	4	2	0.7	1.8	24.5	4.61	3.5	980
20	1.5	2	0.7	1.8	22.0	12.1	3.5	680
	2.5	2	0.7	1.8	24.0	7.41	3.5	910
	4	2	0.7	1.8	27.0	4.61	3.5	1260
30	1.5	2	0.7	1.8	25.0	12.1	3.5	950
	2.5	2	0.7	1.8	28.0	7.41	3.5	1290
	4	2	0.7	1.8	31.5	4.61	3.5	1800

# 0.6/1kV 트레이용 난연 내화케이블

**(TFR-8)** 0.6/1kv Tray Flame Resistant Power Cable for Fire Service

내화특성 : 750°C 3시간의 내화성능유지  
Fire-Resisting Test : 750°C/3hour



- ① 전기용연동연선(Annealed Copper Wire)
- ② 내화층(Fire-Resistant Layer/Mica Tape)
- ③ PE 절연(XLPE or PE Insulation)
- ④ 내열보강층(Mica Tape)
- ⑤ FR-PVC 피복(Flame-Retardance PVC Sheath)

## ■ 용도

화재경보장치, 비상등, 스프링쿨러등의 내화성이 요구되는 곳에 사용되는 케이블이다.

## ■ USE

This cable is used for fire related equipment such as fire.



선심수 No. of Cores c	도체 Conductor			절연체 두께 Insulation Thickness mm	시스두께 Sheath Thickness mm	완성외경 Overall Diameter mm	도체저항 (20℃) Conductor Resistance at 20℃ Ω/km	시험전압 Test Voltage kV	개산중량 Approx. Weigh kg/km
	공칭 단면적 Nominal Sectional Area mm <sup>2</sup>	소선수/지름 Number & Diameter of Wire No/mm	바깥지름 Outer Diameter mm						
1	1.5	7/0.53	1.59	0.7	1.4	8.5	12.1	3.5	60
	2.5	7/0.67	2.01	0.7	1.4	9.0	7.41	3.5	80
	4	7/0.85	2.55	0.7	1.4	9.5	4.61	3.5	100
	6	7/1.04	3.12	0.7	1.4	10.0	3.08	3.5	120
	10	7/1.35	4.05	0.7	1.4	11.0	1.83	3.5	180
	16	원형압축	4.7	0.7	1.4	12.0	1.15	3.5	220
	25	원형압축	5.9	0.9	1.4	13.5	0.727	3.5	320
	35	원형압축	6.9	0.9	1.4	15.0	0.524	3.5	430
	50	원형압축	8.1	1.0	1.4	16.5	0.387	3.5	540
	70	원형압축	9.8	1.1	1.4	18.5	0.268	3.5	740
	95	원형압축	11.4	1.1	1.5	20.5	0.193	3.5	990
	120	원형압축	12.9	1.2	1.5	22.5	0.153	3.5	1230
	150	원형압축	14.4	1.4	1.6	25.0	0.124	3.5	1530
	185	원형압축	15.9	1.6	1.6	27.0	0.0991	3.5	1890
	240	원형압축	18.3	1.7	1.7	30.0	0.0754	3.5	2450
	300	원형압축	20.5	1.8	1.8	33.0	0.0601	3.5	3040
	400	원형압축	23.2	2.0	1.9	36.5	0.0470	3.5	3860
500	원형압축	26.4	2.2	2.0	41.0	0.0366	3.5	4920	
630	원형압축	30.2	2.4	2.2	46.0	0.0283	3.5	6320	
2	1.5	7/0.53	1.59	0.7	1.8	14.0	12.1	3.5	130
	2.5	7/0.67	2.01	0.7	1.8	15.0	7.41	3.5	170
	4	7/0.85	2.55	0.7	1.8	16.0	4.61	3.5	210
	6	7/1.04	3.12	0.7	1.8	17.5	3.08	3.5	260
	10	7/1.35	4.05	0.7	1.8	19.5	1.83	3.5	350
	16	원형압축	4.7	0.7	1.8	21.0	1.15	3.5	470
	25	원형압축	5.9	0.9	1.8	24.5	0.727	3.5	680
	35	원형압축	6.9	0.9	1.8	26.5	0.524	3.5	910
	50	원형압축	8.1	1.0	1.8	30.0	0.387	3.5	1180
	70	원형압축	9.8	1.1	1.8	34.5	0.268	3.5	1640
	95	원형압축	11.4	1.1	1.9	38.0	0.193	3.5	2210
	120	원형압축	12.9	1.2	2.0	42.0	0.153	3.5	2710
	150	원형압축	14.4	1.4	2.2	46.5	0.124	3.5	3390
	185	원형압축	15.9	1.6	2.3	51.0	0.0991	3.5	4200
	240	원형압축	18.3	1.7	2.5	57.5	0.0754	3.5	5440
	300	원형압축	20.5	1.8	2.6	63.0	0.0601	3.5	6740

선심수 No. of Cores c	도체 Conductor			절연체 두께 Insulation Thickness mm	시스두께 Sheath Thickness mm	완성외경 Overall Diameter mm	도체저항 (20℃) Conductor Resistance at 20℃ Ω/km	시험전압 Test Voltage kV	개산중량 Approx. Weigh kg/km
	공칭 단면적 Nominal Sectional Area mm <sup>2</sup>	소선수/지름 Number & Diameter of Wire No/mm	바깥지름 Outer Diameter mm						
3	1.5	7/0.53	1.59	0.7	1.8	15.0	12.1	3.5	170
	2.5	7/0.67	2.01	0.7	1.8	16.0	7.41	3.5	200
	4	7/0.85	2.55	0.7	1.8	17.0	4.61	3.5	270
	6	7/1.04	3.12	0.7	1.8	18.5	3.08	3.5	340
	10	7/1.35	4.05	0.7	1.8	20.5	1.83	3.5	470
	16	원형압축	4.7	0.7	1.8	22.0	1.15	3.5	640
	25	원형압축	5.9	0.9	1.8	26.0	0.727	3.5	930
	35	원형압축	6.9	0.9	1.8	28.5	0.524	3.5	1250
	50	원형압축	8.1	1.0	1.9	32.0	0.387	3.5	1600
	70	원형압축	9.8	1.1	2.0	37.0	0.268	3.5	2240
	95	원형압축	11.4	1.1	2.1	41.0	0.193	3.5	3020
	120	원형압축	12.9	1.2	2.3	45.5	0.153	3.5	3850
	150	원형압축	14.4	1.4	2.4	50.5	0.124	3.5	4790
	185	원형압축	15.9	1.6	2.6	55.5	0.0991	3.5	5960
	240	원형압축	18.3	1.7	2.8	62.0	0.0754	3.5	7730
300	원형압축	20.5	1.8	2.9	68.0	0.0601	3.5	9570	
4	1.5	7/0.53	1.59	0.7	1.8	16.0	12.1	3.5	190
	2.5	7/0.67	2.01	0.7	1.8	17.0	7.41	3.5	250
	4	7/0.85	2.55	0.7	1.8	18.5	4.61	3.5	330
	6	7/1.04	3.12	0.7	1.8	20.0	3.08	3.5	420
	10	7/1.35	4.05	0.7	1.8	22.5	1.83	3.5	600
	16	원형압축	4.7	0.7	1.8	24.5	1.15	3.5	820
	25	원형압축	5.9	0.9	1.8	28.5	0.727	3.5	1220
	35	원형압축	6.9	0.9	1.8	31.5	0.524	3.5	1600
	50	원형압축	8.1	1.0	2.0	35.5	0.387	3.5	2110
	70	원형압축	9.8	1.1	2.1	41.0	0.268	3.5	2990
	95	원형압축	11.4	1.1	2.3	45.5	0.193	3.5	4040
	120	원형압축	12.9	1.2	2.4	50.5	0.153	3.5	5050
	150	원형압축	14.4	1.4	2.6	56.0	0.124	3.5	6280
	185	원형압축	15.9	1.6	2.7	61.5	0.0991	3.5	7830
	240	원형압축	18.3	1.7	3.0	69.0	0.0754	3.5	10160
300	원형압축	20.5	1.8	3.2	76.0	0.0601	3.5	12600	