

Products | 소방케이블

0.6/1kV 트레이용 가교 폴리에틸렌 절연 난연 비닐시스 내화케이블 (TFR-8)

0.6/1kV XLPE Insulated with Fire-Proof Layer and Tray Flame-Retardant PVC Sheathed Fire-Retardant Power Cable (TFR-8)

용도 내화 특성이 우수한 전력용 케이블

- 구조
- 도체: 전기용 연동연선
  - 내화층: 도체와 절연체 사이에 내화층을 둔다(마이카 테이프)
  - 절연체: 가교폴리에틸렌(XLPE)
  - 연합: 2심 이상인 경우 절연된 심선을 원형으로 꼬임
  - 피복체: 난연 PVC
  - 선심식별: 1심 - 흑색  
2심 - 흑색, 백색  
3심 - 흑색, 백색, 적색  
4심 - 흑색, 백색, 적색, 녹색

내화특성 750°C 3시간 내화성능 유지

적용규격 KS C IEC 60502-1 / KS C IEC 60332-3

Application Used for fire related equipment such as fire alarms, sprinkler system, emergency lighting circuits required fire - resistant properties.

- Construction
- Conductors: Circular Stranded Annealed Copper
  - Fire-Proof Layer: The Fire-proof Layer Shall be Applied Between Conductor and Insulation
  - Insulation: Cross-Linked Polyethylene(XLPE)
  - Assembly: Multi-cores or Cable Shall be Assembled with a Fire-protect Layer
  - Sheath: FR PVC
  - Core Identification: 1core - black  
2cores - black, white  
3cores - black, white, red  
4cores - black, white, red, green

Fire-Resisting Test 750°C/3hour

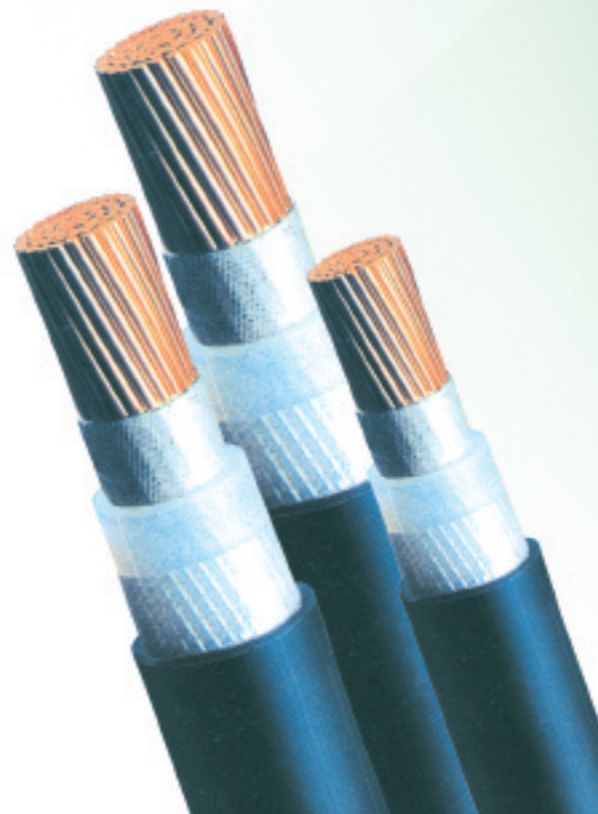
Standard KS C IEC 60502-1 / KS C IEC 60332-3



소방케이블

> 0.6/1kV 트레이용 가교 폴리에틸렌 절연 난연 비닐시스 내화케이블 (TFR-8)  
0.6/1kV XLPE Insulated with Fire-Proof Layer and Tray Flame-Retardant PVC Sheathed Fire-Retardant Power Cable (TFR-8)

> 0.6/1kV 트레이용 가교 폴리에틸렌 절연 난연 비닐시스 화재경보용 내열케이블 (TFR-3)  
0.6/1kV XLPE Insulated and Tray Flame-Retardant PVC Sheathed Heat-Retardant Control Cable (TFR-3)



단심 (Single Core)

공칭단면적 Nominal Sectional Area mm <sup>2</sup>	도체 Conductor		절연체두께 Insulation Thickness mm	시스 두께 Sheath Thickness mm	완성품 바깥지름 Approx Overall Diameter mm	시험전압 Test Voltage V/1min	최대도체저항20°C Max Conductor Resistance at 20°C Ω /km	개산무게 Approx Weight kg/km
	구성(소선수/소선지름) Number & Diameter of wire No./mm	바깥지름 Outer Diameter mm						
2.5	7/0.67	2.01	0.7	1.4	8.0	3500	7.41	81
4	7/0.85	2.55	0.7	1.4	8.5		4.61	101
6	7/1.04	3.12	0.7	1.4	9.0		3.08	125
10	7/1.35	4.05	0.7	1.4	10		1.83	174
16		4.7	0.7	1.4	10.5		1.15	230
25		5.9	0.9	1.4	12		0.727	335
35		6.9	0.9	1.4	13		0.524	437
50		8.1	1.0	1.4	14.5		0.387	569
70	1심	9.8	1.1	1.5	16.5		0.268	785
95	2심	11.4	1.1	1.5	18.5		0.193	1053
120	3심	12.9	1.2	1.6	21		0.153	1307
150	4심	14.4	1.4	1.7	23		0.124	1555
185		15.9	1.6	1.7	25		0.0991	1904
240		18.3	1.7	1.8	27		0.0754	2427
300		20.5	1.8	1.9	30		0.0601	3062
400		23.2	2.0	2.0	33		0.0470	4028
500		26.4	2.2	2.1	37		0.0366	4953
630		30.2	2.4	2.3	42		0.0283	6311

Products 소방케이블

2심 (Two Cores)

도체 Conductor			절연체두께 Insulation Thickness mm	시스 두께 Sheath Thickness mm	완성품 바깥지름 Approx Overall Diameter mm	시험전압 Test Voltage V/1min	최대도체저항20°C Max Conductor Resistance at 20°C Ω /km	개산무게 Approx Weight kg/km
공칭단면적 Nominal Sectional Area mm²	구성(소선수/소선지름) Number & Diameter of wire No./mm	바깥지름 Outer Diameter mm						
2.5	7/0.67	2.01	0.7	1.8	14	3500	7.41	203
4	7/0.85	2.55	0.7	1.8	15		4.61	249
6	7/1.04	3.12	0.7	1.8	16		3.08	308
10	7/1.35	4.05	0.7	1.8	18		1.83	418
16	연	4.7	0.7	1.8	19		1.15	548
25		5.9	0.9	1.8	22		0.727	789
35		6.9	0.9	1.8	25		0.524	1019
50		8.1	1.0	1.8	27		0.387	1315
70	연	9.8	1.1	1.9	31		0.268	1803
95		11.4	1.1	2.0	35		0.193	2390
120	단	12.9	1.2	2.2	38		0.153	2992
150		14.4	1.4	2.3	42		0.124	3585
185	배	15.9	1.6	2.4	47		0.0991	4407
240		18.3	1.7	2.6	52		0.0754	5596
300		20.5	1.8	2.8	57		0.0601	7018

3심 (Three Cores)

도체 Conductor			절연체두께 Insulation Thickness mm	시스 두께 Sheath Thickness mm	완성품 바깥지름 Approx Overall Diameter mm	시험전압 Test Voltage V/1min	최대도체저항20°C Max Conductor Resistance at 20°C Ω /km	개산무게 Approx Weight kg/km
공칭단면적 Nominal Sectional Area mm²	구성(소선수/소선지름) Number & Diameter of wire No./mm	바깥지름 Outer Diameter mm						
2.5	7/0.67	2.01	0.7	1.8	14.5	3500	7.41	243
4	7/0.85	2.55	0.7	1.8	15.5		4.61	307
6	7/1.04	3.12	0.7	1.8	17		3.08	387
10	7/1.35	4.05	0.7	1.8	19		1.83	535
16	연	4.7	0.7	1.8	20		1.15	707
25		5.9	0.9	1.8	24		0.727	1056
35		6.9	0.9	1.8	26		0.524	1377
50		8.1	1.0	1.9	29		0.387	1781
70	연	9.8	1.1	2.0	33		0.268	2482
95		11.4	1.1	2.1	37		0.193	3328
120	단	12.9	1.2	2.3	41		0.153	4150
150		14.4	1.4	2.4	45		0.124	4975
185	배	15.9	1.6	2.6	50		0.0991	6121
240		18.3	1.7	2.8	56		0.0754	7800
300		20.5	1.8	2.9	61		0.0601	9806

4심 (Four Cores)

도체 Conductor			절연체두께 Insulation Thickness mm	시스 두께 Sheath Thickness mm	완성품 바깥지름 Approx Overall Diameter mm	시험전압 Test Voltage V/1min	최대도체저항20°C Max Conductor Resistance at 20°C Ω /km	개산무게 Approx Weight kg/km
공칭단면적 Nominal Sectional Area mm²	구성(소선수/소선지름) Number & Diameter of wire No./mm	바깥지름 Outer Diameter mm						
2.5	7/0.67	2.01	0.7	1.8	16	3500	7.41	292
4	7/0.85	2.55	0.7	1.8	17		4.61	377
6	7/1.04	3.12	0.7	1.8	18.5		3.08	475
10	7/1.35	4.05	0.7	1.8	21		1.83	676
16	연	4.7	0.7	1.8	22		1.15	919
25		5.9	0.9	1.8	26		0.727	1353
35		6.9	0.9	1.8	29		0.524	1755
50		8.1	1.0	2.0	32		0.387	2313
70	연	9.8	1.1	2.1	37		0.268	3237
95		11.4	1.1	2.3	41		0.193	4345
120	단	12.9	1.2	2.4	46		0.153	5357
150		14.4	1.4	2.6	50		0.124	6489
185	배	15.9	1.6	2.7	56		0.0991	8018
240		18.3	1.7	3.0	62		0.0754	10228
300		20.5	1.8	3.2	69		0.0601	12895

0.6/1kV 트레이용 가교 폴리에틸렌 절연 난연 비닐시스 화재경보용 내열케이블 (TFR-3)  
 0.6/1kV XLPE Insulated and Tray Flame-Retardant PVC Sheathed Heat-Retardant Control Cable (TFR-3)

용도 화재경보 및 비상경보장치의 회로에 사용되는 제어, 신호용 케이블

- 구조
- 도체 : 전기용 연동선 또는 연동연선
  - 절연체 : 90°C XLPE (Cross-Linked Polyethylene)
  - 연합 : 코아를 원형으로 연합
  - 내화층 : 코아 연합위에 내화층을 둠
  - 피복체 : 난연PVC (Poly Vinyl Chloride)
  - 절연체의 색 : Core Type 1심 백색 / 2심 청색, 적색 / 3심 청색, 적색, 백색  
 4심 청색, 적색, 백색, 백색 / 5심 이상 각층마다 청, 적색을 Tracer로 하여 배열  
 Pair Type 1쌍 청색-적색 / 2쌍 청색-적색, 적색-백색 / 3쌍 이상 각층마다 청-백, 적-백을 Tracer로 하여 배열

내화특성 380°C 3시간 내화성능 유지

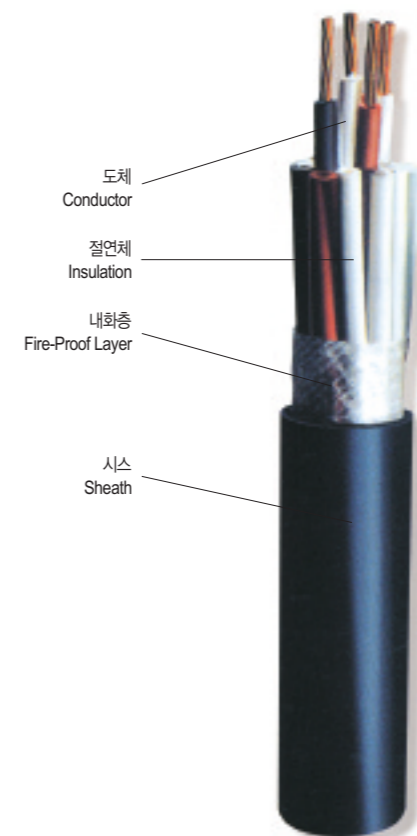
적용규격 KS C IEC 60502-1 / KS C IEC 60332-3

Application Used for operation and interconnection of fire alarm and emergency information equipment.

- Construction
- Conductors : Circular Stranded Annealed Copper
  - Insulation : 90°C Cross Linked Polyethylene (XLPE)
  - Assembly : Multi-cores or Cable Shall be Assembled to Form a Circular Cable with a Fire-protect Layer
  - Fire - Proof Layer : The Fire-proof Layer Shall be Applied Between the Assembly and Sheath
  - Sheath : FR PVC
  - Core Identification : Core Type 1 core white / 2 cores blue, red / 3 cores blue, red, white / 4 cores blue, red, white, white  
 Above 4 cores color tracer coding (Tracer color : blue, red)  
 Pair Type 1 pair blue-red / 2 pairs blue-white, red-white / Above 3 pairs color tracer coding

Fire-Resisting Test 380°C/3hour

Standard KS C IEC 60502-1 / KS C IEC 60332-3



Products | 소방케이블

1등급 단선

선심수 No. of Cores	도체 Conductor			절연체두께 Insulation Thickness mm	시스 두께 Sheath Thickness mm	완성품바깥지름 Approx. Overall Diameter mm	최대도체저항20°C Max Conductor Resistance at 20°C Ω/km	시험전압 Test Voltage V/1min	개산무게 Approx Weight kg/km
	공칭단면적 Nominal Sectional Area mm²	구성소선수/소선지름 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	3500	124
	2.5	1/1.78	1.78	0.7	1.8	11.5	7.41		154
	4	1/2.25	2.25	0.7	1.8	12.5	4.61		195
3	1.5	1/1.38	1.38	0.7	1.8	11	12.1	3500	144
	2.5	1/1.78	1.78	0.7	1.8	12	7.41		183
	4	1/2.25	2.25	0.7	1.8	13	4.61		240
4	1.5	1/1.38	1.38	0.7	1.8	12	12.1	3500	172
	2.5	1/1.78	1.78	0.7	1.8	13	7.41		221
	4	1/2.25	2.25	0.7	1.8	14	4.61		291
5	1.5	1/1.38	1.38	0.7	1.8	13	12.1	3500	201
	2.5	1/1.78	1.78	0.7	1.8	14	7.41		262
	4	1/2.25	2.25	0.7	1.8	15	4.61		347
6	1.5	1/1.38	1.38	0.7	1.8	13.5	12.1	3500	222
	2.5	1/1.78	1.78	0.7	1.8	15	7.41		303
	4	1/2.25	2.25	0.7	1.8	16	4.61		405
7	1.5	1/1.38	1.38	0.7	1.8	13.5	12.1	3500	236
	2.5	1/1.78	1.78	0.7	1.8	15	7.41		325
	4	1/2.25	2.25	0.7	1.8	16	4.61		440
8	1.5	1/1.38	1.38	0.7	1.8	14.5	12.1	3500	266
	2.5	1/1.78	1.78	0.7	1.8	16	7.41		358
	4	1/2.25	2.25	0.7	1.8	17.5	4.61		501
10	1.5	1/1.38	1.38	0.7	1.8	16.5	12.1	3500	325
	2.5	1/1.78	1.78	0.7	1.8	18	7.41		442
	4	1/2.25	2.25	0.7	1.8	20	4.61		607
12	1.5	1/1.38	1.38	0.7	1.8	17	12.1	3500	364
	2.5	1/1.78	1.78	0.7	1.8	18.5	7.41		498
	4	1/2.25	2.25	0.7	1.8	21	4.61		693
15	1.5	1/1.38	1.38	0.7	1.8	18	12.1	3500	431
	2.5	1/1.78	1.78	0.7	1.8	20	7.41		603
	4	1/2.25	2.25	0.7	1.8	22	4.61		839
20	1.5	1/1.38	1.38	0.7	1.8	20	12.1	3500	542
	2.5	1/1.78	1.78	0.7	1.8	22	7.41		757
	4	1/2.25	2.25	0.7	1.8	25	4.61		1078
25	1.5	1/1.38	1.38	0.7	1.8	22	12.1	3500	652
	2.5	1/1.78	1.78	0.7	1.8	25	7.41		923
	4	1/2.25	2.25	0.7	1.8	28	4.61		1312
30	1.5	1/1.38	1.38	0.7	1.8	24	12.1	3500	754
	2.5	1/1.78	1.78	0.7	1.8	26	7.41		1074
	4	1/2.25	2.25	0.7	1.8	29	4.61		1534

2등급 연선

선심수 No. of Cores	도체 Conductor			절연체두께 Insulation Thickness mm	시스 두께 Sheath Thickness mm	완성품바깥지름 Approx. Overall Diameter mm	최대도체저항20°C Max Conductor Resistance at 20°C Ω/km	시험전압 Test Voltage V/1min	개산무게 Approx Weight kg/km
	공칭단면적 Nominal Sectional Area mm²	구성소선수/소선지름 Number & Diameter of wire No./mm	바깥지름 Outer Diameter mm						
2	1.5	7/0.53	1.59	0.7	1.8	11	12.1	3500	131
	2.5	7/0.67	2.01	0.7	1.8	12	7.41		160
	4	7/0.85	2.55	0.7	1.8	13	4.61		204
3	1.5	7/0.53	1.59	0.7	1.8	11.5	12.1	3500	154
	2.5	7/0.67	2.01	0.7	1.8	12.5	7.41		195
	4	7/0.85	2.55	0.7	1.8	13.5	4.61		251
4	1.5	7/0.53	1.59	0.7	1.8	12.5	12.1	3500	184
	2.5	7/0.67	2.01	0.7	1.8	13.5	7.41		231
	4	7/0.85	2.55	0.7	1.8	15	4.61		305
5	1.5	7/0.53	1.59	0.7	1.8	13.5	12.1	3500	215
	2.5	7/0.67	2.01	0.7	1.8	14.5	7.41		268
	4	7/0.85	2.55	0.7	1.8	16	4.61		364
6	1.5	7/0.53	1.59	0.7	1.8	14.5	12.1	3500	247
	2.5	7/0.67	2.01	0.7	1.8	15.5	7.41		316
	4	7/0.85	2.55	0.7	1.8	17	4.61		426
7	1.5	7/0.53	1.59	0.7	1.8	14.5	12.1	3500	262
	2.5	7/0.67	2.01	0.7	1.8	15.5	7.41		339
	4	7/0.85	2.55	0.7	1.8	17	4.61		460
8	1.5	7/0.53	1.59	0.7	1.8	15	12.1	3500	286
	2.5	7/0.67	2.01	0.7	1.8	16.5	7.41		376
	4	7/0.85	2.55	0.7	1.8	18.5	4.61		526
10	1.5	7/0.53	1.59	0.7	1.8	17.5	12.1	3500	347
	2.5	7/0.67	2.01	0.7	1.8	19	7.41		460
	4	7/0.85	2.55	0.7	1.8	21	4.61		620
12	1.5	7/0.53	1.59	0.7	1.8	18	12.1	3500	403
	2.5	7/0.67	2.01	0.7	1.8	19.5	7.41		524
	4	7/0.85	2.55	0.7	1.8	22	4.61		726
15	1.5	7/0.53	1.59	0.7	1.8	19	12.1	3500	463
	2.5	7/0.67	2.01	0.7	1.8	21	7.41		627
	4	7/0.85	2.55	0.7	1.8	24	4.61		878
20	1.5	7/0.53	1.59	0.7	1.8	21	12.1	3500	581
	2.5	7/0.67	2.01	0.7	1.8	23	7.41		788
	4	7/0.85	2.55	0.7	1.8	26	4.61		1126
25	1.5	7/0.53	1.59	0.7	1.8	24	12.1	3500	703
	2.5	7/0.67	2.01	0.7	1.8	26	7.41		961
	4	7/0.85	2.55	0.7	1.8	29	4.61		1372
30	1.5	7/0.53	1.59	0.7	1.8	25	12.1	3500	811
	2.5	7/0.67	2.01	0.7	1.8	28	7.41		1117
	4	7/0.85	2.55	0.7	1.8	31	4.61		1603