JS Cable

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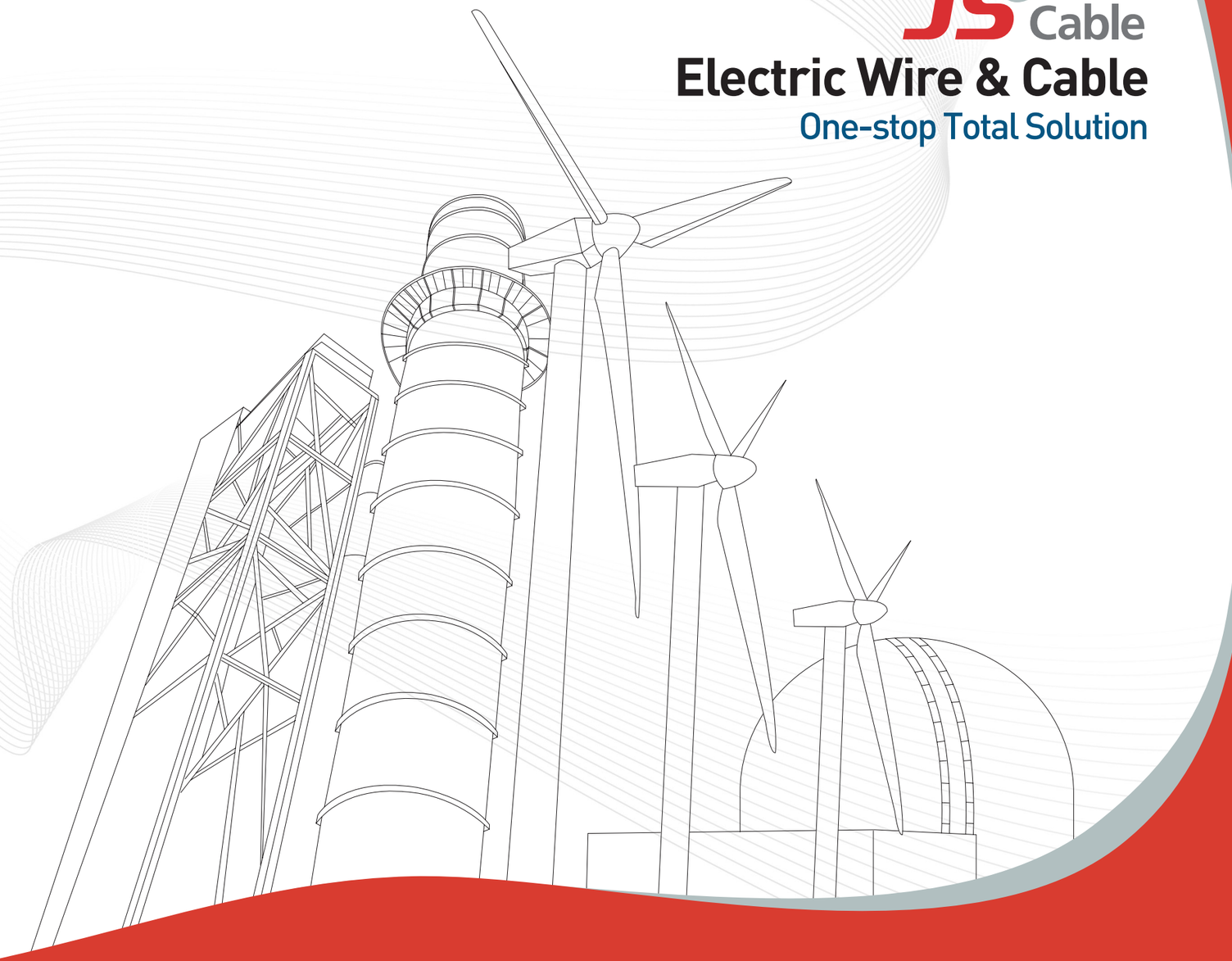
Electric Wire & Cable

One-stop Total Solution



■ Products & Systems of JS Cable

Marine & Offshore Cables

Rubber & Specialty Cables

Electric Cables

Data Cables

Copper Rod

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JS Cable

The Innovative Challenger For
Your Dream

P r e f a c e

A new beginning to deliver the dream of customers - JS Cable

A new name of endless innovation and creative ideas - JS Cable

Since its foundation in 1968, JS Cable has been a pioneer in rubber cable industry and known for its excellence in quality and technology.

JS Cable is a world class leader in shipboard and offshore cable products with state of art facilities. We pursue global standard quality, safety and health and environment with full compliance of ISO 9001 (Quality Management), ISO 14001 (Environment Management) and OHSAS 18001 (Safety and Healthy working Environment Management) standards.

We continue to strive for a pace setter in cable manufacturing industry by implementing state of art R&D Center, best practice HR Program, and a new ERP initiative.

A mission to deliver light, energy, and information to global communities - JS Cable

A great leap into the future, relentless pursue for customer value - JS Cable

With our customers, we devote our full attention to make a better world tomorrow.

■ Products & Systems of JS Cable

Marine & Offshore Cables

Rubber & Specialty Cables

Electric Cables

Data Cables

Copper Rod

We supply our best quality products to markets all over the world

Company **Profile**

1968 The company incorporated in the name of YONHAP CABLE Co., Ltd.

1978 Designated as a specialized factory for shipbuilding materials & equipment.

1984 Stock listed for public subscription.

1987 Moved to new constructed factory site located in Cheon-An.

1990 Communication cable plant completed in Mokchon.

1992 Operation of the copper smelting furnace plant commenced.

1995 ISO 9001 certification acquired (LRQA).

1996 Corporate name changed to Jinro Industries Co., Ltd.

2000 LAN cable production line started its commercial operation.

2001 TL (Telecommunication Leadership) 9000 certification acquired (LRQA).
ETL for IEEE 45 Type P Off-shore and Marine structure cables acquired.
UL for UL 1309 Type Off-shore and Marine structure cables acquired.

2002 Korean World Class Products Award for Marine Cable in 2002.
(Minister of Commerce, Industry and Energy Republic of Korea)

2004 ISO 14001 certification acquired (LRQA).

2005 OHSAS 18001 certification acquired (LRQA).
The corporate governance of the company acquired by LS Group.

2007 Corporate name changed to JS Cable Co., Ltd.



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Wire & Cable

One-stop Total Solution

Copper & Aluminum Wires

»» Copper Wire for Electrical Purpose

- AS : Annealed copper stranded wire for Electrical Purpose
- HS : Hard-drawn copper stranded wire for Electrical Purpose
- PH : Hard-drawn copper stranded wire for Electrical Purpose
- Class 2 stranded conductors for single-core and multicore cables
- Class 5 flexible copper conductors for single-core and multicore cables

»» Aluminum Wire for Electrical Purpose

- ACSR : Aluminum conductor steel reinforced
- ACSR/AW : Aluminum conductors, Aluminum-clad steel reinforced
- ACSR-OC : Aluminum conductor steel reinforced
- ACSR/AW-OC : Aluminum conductors, Aluminum-clad steel reinforced
- 22.9kV ACSR/AW-TR/OC : 22.9kV Outdoor tracking retardant cross-linked polyethylene insulated wires
- 22.9kV OC-W : 22.9kV Outdoor used XLPE insulated copper wire-water proof
- 22.9kV FR ABC-W : 22.9kV Flame retardant and water-proof type aerial bundled cable

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Copper Wire for Electrical Purpose

AS : Annealed copper stranded wire for electrical purpose — KS C 3103

HS : Hard-drawn copper stranded wire for electrical purpose · For general purpose — KS C 3104

Nominal Sectional Area	Composition	Min. Tensile Load	Reference data					
			Outer Diameter	Calculated Sectional Area	Max. Resistance of Conductor at 20°C		Approx. Weight	Standard Length
					HS	AS		
mm²	No./ mm	kgf	mm	mm²	Ω/km	Ω/km	kg/km	m
0.9	7/0.4	37	1.2	0.8799	20.0	20.7	7.913	500
1.25	7/0.45	-	1.35	1.123	15.8	-	10.20	500
1.4	7/0.5	58	1.5	1.375	12.7	13.2	12.37	500
2.0	7/0.6	83	1.8	1.979	8.82	9.18	17.80	500
3.5	7/0.8	146	2.4	3.519	4.96	5.17	31.66	500
5.5	7/1.0	227	3.0	5.498	3.17	3.31	49.46	500
8	7/1.2	326	3.6	7.917	2.20	2.30	71.19	500
14	7/1.6	574	4.8	14.08	1.24	1.29	126.7	500
22	7/2.0	888	6.0	21.99	0.793	0.818	197.9	300
30	7/2.3	1,170	6.9	29.09	0.600	0.618	261.7	300
38	7/2.6	1,480	7.8	37.16	0.470	0.484	334.4	300
50	19/1.8	1,970	9.0	48.36	0.261	0.376	435.1	1,000
60	19/2.0	2,410	10.0	59.7	0.292	0.301	537.0	1,000
80	19/2.3	3,160	11.5	78.95	0.221	0.228	710.3	1,000
100	19/2.6	4,020	13.0	100.9	0.173	0.178	907.6	600
125	19/2.9	4,960	14.5	125.5	0.139	0.143	1,129	600
150	37/2.3	6,160	16.1	153.7	0.114	0.118	1,390	600
200	37/2.6	7,830	18.2	196.4	0.0893	0.0920	1,776	500
250	61/2.3	10,200	20.7	253.5	0.0694	0.0715	2,298	300
325	61/2.6	12,900	23.4	323.8	0.0543	0.0560	2,937	300
400	61/2.9	15,900	26.1	402.9	0.0136	0.0450	3,654	300
500	61/3.2	19,300	28.8	490.6	0.0359	0.0370	4,448	300
600	91/2.9	23,800	31.9	601.1	0.0293	0.0303	5,466	300
725	91/3.2	28,700	35.2	731.8	0.0241	0.0248	6,655	300
850	127/2.9	33,100	37.7	838.8	0.0211	0.0217	7,651	300
1,000	127/3.2	40,100	41.6	1,021	0.0173	0.0179	9,315	300

PH : Hard-drawn copper stranded wire for electrical purpose · For overhead transmission purpose — KS C 3104

Nominal Sectional Area	Composition	Min. Tensile Load	Outer Diameter	Calculated Sectional Area	Max. Resistance of Conductor at 20°C	Approx . Weight	Standard Length
mm²	No./ mm	kgf	mm	mm²	Ω/km	kg/km	m
22	7/2.0	888	6.0	21.99	0.818	197.9	1,200
30	7/2.3	1,170	6.9	29.09	0.618	261.7	1,200
38	7/2.6	1,480	7.8	37.16	0.484	334.4	1,000
45	7/2.9	1,830	8.7	46.24	0.389	416.0	1,000
55	7/3.2	2,210	9.6	56.29	0.320	506.4	1,000
75	7/3.7	2,910	11.1	75.25	0.239	677.0	700
100	7/4.3	3,880	12.9	101.6	0.177	914.5	600
125	19/2.9	4,960	14.5	125.5	0.143	1,129	1,000
150	19/3.2	6,000	16.0	152.8	0.118	1,375	1,000
180	19/3.5	7,130	17.5	182.8	0.0984	1,645	800
200	19/3.7	7,900	18.5	204.3	0.0880	1,838	700
240	19/4.0	9,180	20.0	208.8	0.0753	2,148	600

Aluminum Wire for Electrical Purpose

Class 2 stranded conductors for single-core and multicore cables

KS C IEC 60228

Nominal Sectional Area	Minimum Number of Wires in the Conductor		Maximum Resistance of Conductor at 20°C	
	Circular Non-Compacted	Circular Compacted	Annealed copper conductor	
			Plain Wires	Metal-Coated Wires
mm²	Cu	Cu	Ω/km	Ω/km
0.5	7	-	36.0	36.7
0.75	7	-	24.5	24.7
1.0	7	-	18.1	18.2
1.5	7	6	12.1	12.2
2.5	7	6	7.41	7.56
4	7	6	4.61	4.70
6	7	6	3.08	3.11
10	7	6	1.83	1.84
16	7	6	1.15	1.16
25	7	6	0.727	0.734
35	7	6	0.524	0.529
50	19	6	0.387	0.391
70	19	12	0.268	0.270
95	19	15	0.193	0.195
120	37	18	0.153	0.154
150	37	18	0.124	0.126
185	37	30	0.0991	0.100
240	61	34	0.0754	0.0762
300	61	34	0.0601	0.0607
400	61	53	0.0470	0.0475

Class 5 flexible copper conductors for single-core and multicore cables

KS C IEC 60228

Nominal Sectional Area	Maximum Diameter of Wire in conductor	Composition	Approx. Outer Diameter	Maximum Resistance of Conductor at 20°C	
				Annealed copper conductor	
				Plain Wires	Metal-Coated Wires
mm²	mm	No. / mm	mm	Ω/km	Ω/km
0.5	0.21	20 / 0.18	0.9	39.0	40.1
0.75	0.21	30 / 0.18	1.1	26.0	26.7
1.0	0.21	40 / 0.18	1.3	19.5	20.0
1.5	0.26	31 / 0.25	1.6	13.3	13.7
2.5	0.26	51 / 0.25	2.1	7.98	8.21
4	0.31	75 / 0.26	2.6	4.95	5.09
6	0.31	7 / 16 / 0.32	3.6	3.30	3.39
10	0.41	7 / 19 / 0.32	4.8	1.91	1.95
16	0.41	7 / 29 / 0.32	6.0	1.21	1.24
25	0.41	7 / 45 / 0.32	7.4	0.78	0.795
35	0.41	7 / 62 / 0.32	8.7	0.554	0.565
50	0.41	19 / 32 / 0.45	10.4	0.386	0.393
70	0.51	19 / 23 / 0.45	12.5	0.272	0.277
95	0.51	19 / 31 / 0.45	14.5	0.206	0.210
120	0.51	19 / 39 / 0.45	16.2	0.161	0.164
150	0.51	19 / 49 / 0.45	18.2	0.129	0.132
185	0.51	37 / 31 / 0.45	20.2	0.106	0.108
240	0.51	37 / 41 / 0.45	23.3	0.0801	0.0817
300	0.51	37 / 51 / 0.45	26.0	0.0641	0.0654
400	0.51	61 / 42 / 0.45	30.3	0.0486	0.0495

ACSR : Aluminum conductor steel reinforced

KS C 3113, KEPCO ES -6145-0005/PS-6145-0023

Nominal Sectional Area	Composition		Outer Diameter	Min. Tensile Load	Reference data			
	Aluminum	Steel			Ampacity	Approx. Weight	Max. Resistance of Conductor at 20°C	Standard Length
mm²	No./ mm	No./ mm	mm	kgf	A	kg/km	Ω/km	m
19	6 / 2.0	1 / 2.0	6.0	698	111	76.1	1.52	1,000
32	6 / 2.6	1 / 2.6	7.8	1,140	156	128.6	0.899	1,000
58	6 / 3.5	1 / 3.5	10.5	1,980	227	233.1	0.497	1,000
65	12 / 2.6	7 / 2.6	13.0	5,415	251	465.0	0.4565	2,000
80	6 / 4.2	1 / 4.2	12.6	2,770	286	335.5	0.345	1,000
95	6 / 4.5	1 / 4.5	13.5	3,180	313	385.2	0.301	1,300
97	12 / 3.2	7 / 3.2	16.0	10,600	328	708.9	0.301	1,000
120	12 / 3.5	7 / 3.5	17.5	9,590	388	45.9	0.250	2,000
120	30 / 2.3	7 / 2.3	16.1	5,550	388	573.7	0.233	1,300
160	30 / 2.6	7 / 2.6	18.2	6,990	454	732.8	0.182	1,900
200	30 / 2.9	7 / 2.9	20.3	8,620	521	911.7	0.147	1,400
240	30 / 3.2	7 / 3.2	22.4	10,210	593	1,110	0.120	1,400
330	26 / 4.0	7 / 3.1	25.3	10,930	712	1,320	0.0888	1,000
410	26 / 4.5	7 / 3.5	28.5	13,890	828	1,673	0.0702	1,000
480(Rail)	45 / 3.7	7 / 2.47	29.6	11,800	891	1,599	0.059	2,000
480(Cardinal)	54 / 3.38	7 / 3.38	30.42	15,300	899	1,836	0.0599	1,000, 2,000
520	54 / 3.5	7 / 3.5	31.5	15,600	909	1,969	0.0559	1,000
610	54 / 3.8	7 / 3.8	34.2	18,150	1,043	2,320	0.0474	1,000

ACSR/AW : Aluminum conductors, Aluminum-clad steel reinforced

KEPCO PS -6145-0020

Nominal Sectional Area	Composition		Outer Diameter	Min. Tensile Load	Reference data			
	Aluminum	Steel			Ampacity	Approx. Weight	Max. Resistance of Conductor at 20°C	Standard Length
mm²	No./ mm	No./ mm	mm	kgf	A	kg/km	Ω/km	m
32	6 / 2.6	1 / 2.6	7.8	1,140	160	120.6	0.852	1,000
58	6 / 3.5	1 / 3.5	10.5	1,980	233	299.7	0.471	1,000
65	12 / 2.6	7 / 2.6	13.0	5,415	275	401	0.380	2,000
95	6 / 4.5	1 / 4.5	13.5	3,180	321	362	0.285	1,000
97	12 / 3.2	7 / 3.2	16.0	10,600	331	608	0.295	2,000
120	12 / 3.5	7 / 3.5	17.5	9,590	402	737	0.210	2,000
160	30 / 2.6	7 / 2.6	18.2	6,990	471	676.4	0.169	2,000
240	30 / 3.2	7 / 3.2	22.4	10,210	616	1,024	0.111	2,000
330	26 / 4.0	7 / 3.1	25.3	10,930	731	1,239	0.0842	2,000
410	26 / 4.5	7 / 3.5	28.5	13,890	850	1,578	0.0665	2,000
480(Rail)	45 / 3.7	7 / 2.47	29.61	11,800	900	1,544	0.0586	2,000
480(Cardinal)	54 / 3.38	7 / 3.38	30.42	15,300	959	1,760	0.0574	2,000
520	54 / 3.5	7 / 3.5	31.5	15,600	918	1,848	0.0536	2,000

ACSR-OC : Aluminum conductor steel reinforced

KEPCO ES 6145-0007

Voltage Grade	Nominal Sectional Area	Conductor			Thickness of Insulation	Approx. Overall Diameter	Max. Insulation Resistance at 20°C	Test Voltage	Min. Insulation Resistance at 20°C	Conductor Tensile Load	Approx. Weight	Standard Length
		Composition		Outer Diameter								
		Aluminum	Steel									
kV	mm²	No./mm	No./mm	mm	mm	mm	Ω/km	kV	MΩ· km	kgf	kg/km	m
6.6	32	6 / SB*	1 / 2.6	7.2	2.0	11.2	0.928	12	1,500	1,090	185	900
	58	6 / SB	1 / 3.5	9.7	2.5	14.7	0.512	12	1,500	1,900	325	600
	95	6 / SB	1 / 3.5	12.0	2.5	17.0	0.313	12	1,500	2,360	455	300
22.9	32	6 / SB	1 / 2.6	7.2	3.0	13.2	0.928	25	2,000	1,090	215	900
	58	6 / SB	1 / 3.5	9.7	3.0	15.7	0.512	25	1,500	1,900	340	600
	95	6 / SB	1 / 3.5	12.0	3.5	19.0	0.313	25	1,500	2,360	540	600
	160	18 / SB	1 / 3.2	15.4	4.0	23.4	0.186	25	1,500	3,080	740	600

*SB : Smooth Body

ACSR/AW-OC : Aluminum conductors, Aluminum-clad steel reinforced

KEPCO ES 6145-0006

Voltage Grade	Nominal Sectional Area	Conductor			Thickness of Insulation	Approx. Overall Diameter	Max. Insulation Resistance at 20°C	Test Voltage	Min. Insulation Resistance at 20°C	Conductor Tensile Load	Approx. Weight	Standard Length
		Composition		Outer Diameter								
		Aluminum	Steel									
kV	mm²	No./mm	No./mm	mm	mm	mm	Ω/km	kV	MΩ· km	kgf	kg/km	m
6.6	32	6 / SB*	1 / 2.6	7.2	2.0	11.2	0.877	12	1,500	1,090	185	900
	58	6 / SB	1 / 3.5	9.7	2.5	14.7	0.484	12	1,500	1,900	315	600
	95	6 / SB	1 / 3.5	12.0	2.5	17.0	0.302	12	1,500	2,360	445	300
22.9	32	6 / SB	1 / 2.6	7.2	3.0	13.2	0.877	25	2,000	1,090	210	900
	58	6 / SB	1 / 3.5	9.7	3.0	15.7	0.484	25	1,500	1,900	330	600
	95	6 / SB	1 / 3.5	12.0	3.5	19.0	0.305	25	1,500	2,360	530	600
	160	18 / SB	1 / 3.2	15.4	4.0	23.4	0.183	25	1,500	3,080	730	600
	240	18 / SB	1 / 4.0	18.9	4.0	27.0	0.123	25	1,500	4,500	1,040	600

*SB : Smooth Body

22.9kV ACSR/AW-TR/OC : 22.9kV Outdoor tracking retardant cross-linked polyethylene insulated wires

KEPCO ES 6145-0021

Voltage Grade	Nominal Sectional Area	Conductor			Thickness			Approx. Overall Diameter	Max. Insulation Resistance at 20°C	Test Voltage	Min. Insulation Resistance at 20°C	Conductor Tensile Load	Approx. Weight	Standard Length
		Composition		Outer Diameter	Inter Semi-Conducting Layer	Insulation	Outer Covering							
		Aluminum	Steel											
kV	mm²	No./mm	No./mm	mm	mm	mm	mm	mm	Ω/km	kV	MΩ· km	kgf	kg/km	m
22.9	58	6 / SB	1 / 3.5	9.7	0.6	1.2	1.2	15.7	0.484	25	1,500	1,900	360	600
	95	6 / SB	1 / 3.5	12.0	0.6	1.4	1.5	19.0	0.305	25	1,500	2,360	520	600
	160	18 / SB	1 / 3.2	15.4	0.6	1.7	1.7	23.4	0.183	25	1,500	3,080	750	600
	240	18 / SB	1 / 4.0	18.9	0.6	1.7	1.7	27.0	0.123	25	1,500	4,500	1,040	600

*SB : Smooth Body

22.9kV OC-W : 22.9kV Outdoor used XLPE insulated copper wire-water proof

KEPCO ES-6154-0022

Nominal Sectional Area	Conductor		Thickness of Insulation	Overall Diameter	Max. Insulation Resistance at 20°C	Test Voltage	Close Adhesion Test Load	Conductor Tensile Load	Approx. Weight	Min. Insulation Resistance at 20°C	Standard Length
	No. of Wire / Wire Diameter	Outer Diameter									
mm²	No./mm	mm	mm	mm	Ω/km	kV	kgf	kgf	kg/km	MΩ· km	m
38	7 / 2.6	7.8	3.0	13.8	0.502	25	67	1,480	444	1,500	600
60	19 / 2.0	10.0	3.5	17.0	0.313	25	75	2,410	701	1,500	600
100	19 / 2.6	13.0	3.5	20.0	0.185	25	82	4,010	1,119	1,500	600
150	19 / 3.2	16.0	3.5	23.0	0.120	25	89	5,990	1,665	1,500	600

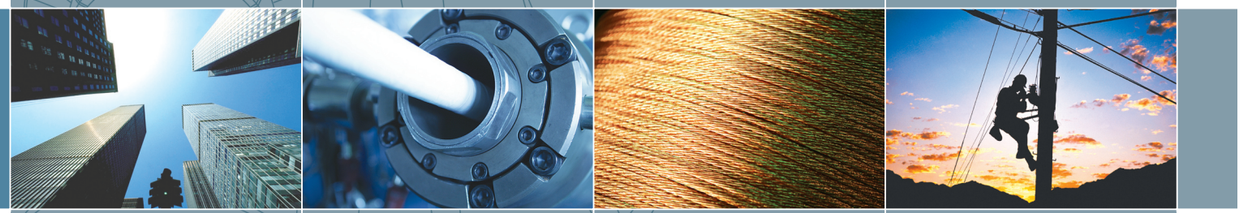
22.9kV FR ABC-W : 22.9kV Flame retardant and water-proof type aerial bundled cable

KEPCO RS-6145-0026

Type	Nominal Sectional Area	Conductor Diameter	Inner Semi-Conducting Layer Thickness	Thickness of Insulation	Diameter of Insulation	Outer Semi-Conducting Layer Thickness	Thickness of Sheath	Neutral wire			Single Core Cable Diameter (Approx.)	Single Core Cable Weight (Approx.)	Overall Diameter (Approx.)	Max. DC Conductor Resistance at 20°C	Min. Insulation Resistance at 20°C	Cable Weight (Approx.)
								No. of Wire/Wire Diameter	Neutral wire Diameter (Approx.)	Nominal Sectional Area						
	mm²	mm	mm	mm	mm	mm	mm	No./mm	mm	mm²	mm	kg/km	mm	Ω/km	MΩ· km	kg/km
3 Phase	50	8.2±0.5	0.6	6.6	23.4	0.7	2.0	7 / 3.2	9.6	55	810	29	67	0.641	1,500	2,710
	95	11.8±0.5	0.6	6.6	27.0	0.7	2.0	7 / 3.5	10.5	70	1,550	32	75	0.320	1,100	3,580
	150	14.7±0.5	0.6	6.6	29.9	0.7	2.0	7 / 4.0	12.0	90	1,750	35	82	0.206	1,000	4,540
	240	13.8±0.5	0.6	6.6	33.5	0.7	2.0	7 / 4.0	12.0	90	2,340	39	89	0.125	900	5,570
Single Phase	50	8.2±0.5	0.6	6.6	23.4	0.7	2.0	7 / 3.2	9.6	55	810	29	-	0.641	1,500	-
	95	11.8±0.5	0.6	6.6	27.0	0.7	2.0	7 / 3.5	10.5	70	1,550	32	-	0.320	1,100	-

Wire & Cable

One-stop Total Solution



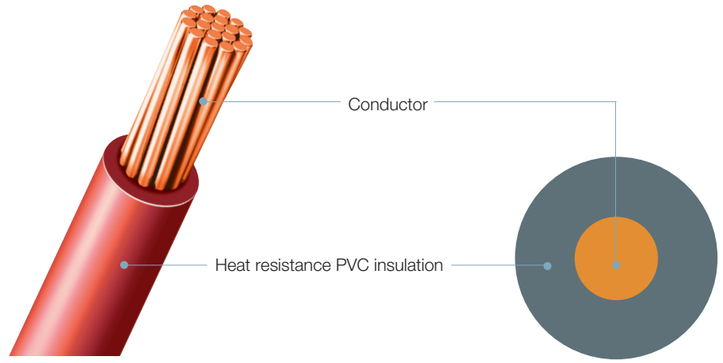
Insulated Wires

»» Insulated Wires

- 450/750V HIV : Heat resistance indoor PVC insulated wire
- 0.6/1kV TFR-GV : FR-PVC insulated grounding wire in tray use
- 450/750V KIV : PVC Insulated wire for electrical apparatus

JS Cable

Insulated Wires



450/750V HIV : Heat resistance indoor PVC insulated wire

KS C 3328

Conductor		Thickness of Insulation	Approx. Overall Diameter		Max. Resistance of Conductor at 20°C	Min. Insulation Resistance at 90°C	Test Voltage	Approx. Weight
Nominal Sectional Area	Conductor Class		Min.	Max.				
mm^2	mm	mm	mm	mm	Ω/km	MΩ km	kV	kg/km
1.5	1	0.7	2.6	3.2	12.1	0.011	2.5	20
1.5	2	0.7	2.7	3.3	12.1	0.010	2.5	20
2.5	1	0.8	3.2	3.9	7.41	0.009	2.5	40
2.5	2	0.8	3.3	4.0	7.41	0.009	2.5	40
4	1	0.8	3.6	4.4	4.61	0.0085	2.5	50
4	2	0.8	3.8	4.6	4.61	0.0077	2.5	50
6	1	0.8	4.1	5.0	3.08	0.0070	2.5	70
6	2	0.8	4.3	5.2	3.08	0.0065	2.5	70
10	1	1.0	5.3	6.4	1.83	0.0070	2.5	120
10	2	1.0	5.6	6.7	1.83	0.0065	2.5	120
16	2	1.0	6.4	7.8	1.15	0.0050	2.5	170
25	2	1.2	8.1	9.7	0.727	0.0050	2.5	260
35	2	1.2	9.0	10.9	0.524	0.0043	2.5	350
50	2	1.4	10.6	12.8	0.387	0.0043	2.5	480
70	2	1.4	12.1	14.6	0.268	0.0035	2.5	670
95	2	1.6	14.1	17.1	0.193	0.0035	2.5	920
120	2	1.6	15.6	18.8	0.153	0.0032	2.5	1,160
150	2	1.8	17.3	20.9	0.124	0.0032	2.5	1,430
185	2	2.0	19.3	23.3	0.0991	0.0032	2.5	1,780
240	2	2.0	22.0	26.6	0.0754	0.0032	2.5	2,320
300	2	2.4	245	29.6	0.0601	0.0030	2.5	2,930
400	2	2.6	27.5	33.2	0.0470	0.0028	2.5	3,730

0.6/1kV TFR-GV : FR-PVC insulated grounding wire in tray use

JSC Standard

Conductor			Thickness of Insulation	Approx. Overall Diameter	Max. Resistance of Conductor at 20°C	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter					
mm²	No./ mm	mm	mm	mm	Ω/km	kV	kg/km
1.5	7 / 0.53	1.59	2.2	6.1	12.1	3.5	60
2.5	7 / 0.67	2.01	2.2	7.0	7.41	3.5	73
4	7 / 0.85	2.55	2.4	8.0	4.61	3.5	104
6	7 / 1.04	3.12	2.4	8.5	3.08	3.5	139
10	7 / 1.35	4.05	2.4	9.5	1.83	3.5	200
16	7 / 1.70	5.10	2.4	10.0	1.15	3.5	282
25	7 / 2.14	6.42	2.6	12.0	0.727	3.5	396
35	7 / 2.52	7.56	2.6	13.0	0.524	3.5	513
50	19 / 1.78	8.90	2.8	14.5	0.387	3.5	643
70	19 / 2.14	10.7	2.8	16.0	0.268	3.5	854
95	19 / .52	12.6	3.1	18.5	0.193	3.5	1,115
120	37 / 2.03	14.21	3.1	200	0.153	3.5	1,406
150	37 / 2.25	15.75	3.4	22.0	0.124	3.5	1,731
185	37 / 2.52	17.64	3.7	25.0	0.0991	3.5	2,069
240	61 / 2.25	20.25	4.0	28.0	0.0754	3.5	2,668
300	61 / 2.52	22.68	4.3	30.0	0.0601	3.5	3,295

450/750V KIV : PVC Insulated wire for electrical apparatus

KS C IEC 60227-3

Conductor				Thickness of Insulation	Approx. Overall Diameter		Max. Resistance of Conductor at 20°c	Min. Insulation Resistance at 90°c	Approx. Weight
Nominal Sectional Area	Conductor Class	No. of Wire/ Wire Diameter	Approx. Outer Diameter		Min.	Max.			
mm²	mm	No./mm	mm	mm	mm	mm	Ω/km	M Ω/km	kg/km
1.5	0.26	31 / 0.25	1.6	0.7	2.8	3.4	13.3	12.7	30
2.5	0.26	51 / 0.25	2.1	0.8	3.4	4.1	7.98	8.21	40
4	0.31	75 / 0.26	2.6	0.8	3.9	4.8	4.95	5.09	50
6	0.31	7 / 16 / 0.26	3.6	0.8	4.4	5.3	3.30	3.39	80
10	0.41	7 / 19 / 0.32	4.8	1.0	5.7	6.8	1.91	1.95	130
16	0.41	7 / 29 / 0.32	6.0	1.0	6.7	8.1	1.21	1.24	180
25	0.41	7 / 45 / 0.32	7.4	1.2	8.4	10.2	0.78	0.795	280
35	0.41	7 / 62 / 0.32	8.7	1.2	9.7	11.7	0.554	0.565	370
50	0.41	19 / 32 / 0.32	10.4	1.4	11.5	13.9	0.386	0.393	500
70	0.51	19 / 23 / 0.45	12.5	1.4	13.2	16.0	0.272	0.277	700
95	0.51	19 / 31 / 0.45	14.5	1.6	15.1	18.2	0.206	0.210	970
120	0.51	19 / 39 / 0.45	16.2	1.6	16.7	20.2	0.161	0.164	1,200
150	0.51	19 / 49 / 0.45	18.2	1.8	18.6	22.5	0.129	0.132	1,490
185	0.51	37 / 31 / 0.45	20.2	2.0	20.6	24.9	0.106	0.108	1,850
240	0.51	37 / 41 / 0.45	23.3	2.2	23.5	28.4	0.0801	0.0817	2,440

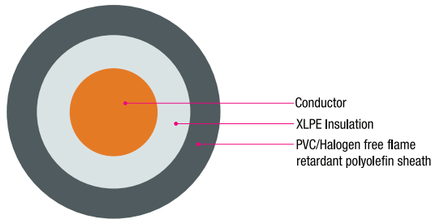
»» Power Cables

- 0.6/1kV CV : XLPE insulated PVC sheathed power cable
- 0.6/1kV HFCO : Halogen free flame retardant polyolefin power cable
- 0.6/1kV TFR-CV : XLPE insulated FR-PVC sheathed power cable in tray use
- 0.6/1kV CV : XLPE insulated PVC sheathed power cable
- 0.6/1kV HFCO : Halogen free flame retardant polyolefin power cable
- 0.6/1kV TFR-CV : XLPE insulated FR-PVC sheathed power cable in tray use
- 0.6/1kV CVS : XLPE insulated, copper tape shielded and PVC sheathed power cable
- 0.6/1kV TFR-CVS : XLPE insulated, copper tape shielded and FR-PVC sheathed power cable in tray use
- 6/10kV CVS : XLPE insulated PVC sheathed power cable
- 6/10kV HFCO : Halogen free flame retardant polyolefin power cable
- 6/10kV TFR-CV : XLPE insulated FR-PVC sheathed power cable in tray use
- 22.9kV-y CNCV-W : 22.9kV Concentric neutral type crosslinked polyethylene insulated vinyl sheathed Power Cable
- 22.9kV-y FR CNCO-W : 22.9kV Flame retardant concentric neutral type crosslinked polyethylene insulated halogen free polyolefin sheathed water-proof power cable
- 22.9kV-y TR CNCV-W : 22.9kV Concentric neutral type tree retardant crosslinked polyethylene insulated PVC sheathed water-proof power cable
- 22.9kV-y TR CNCE-W : 22.9kV Concentric neutral type water tree retardant XLPE insulated extruded-to-fill polyethylene jacketed water-proof power cable

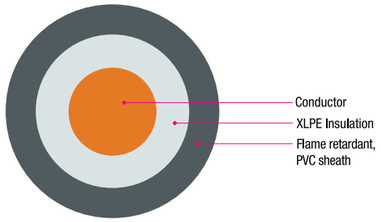
JS Cable

Power Cables

0.6/1kV CV, 0.6/1kV HFCO



0.6/1kV TFR-CV



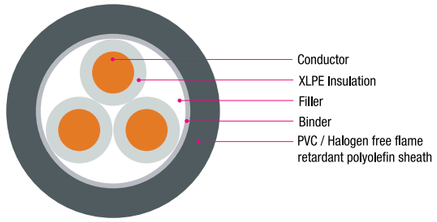
0.6/1kV CV : XLPE insulated PVC sheathed power cable
0.6/1kV HFCO : Halogen free flame retardant polyolefin power cable
0.6/1kV TFR-CV : XLPE insulated FR-PVC sheathed power cable in tray use

KS C IEC 60502-1, JSC standard

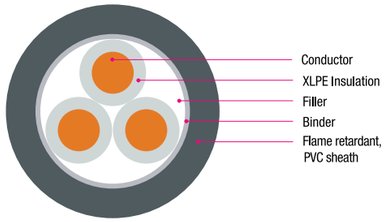
Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
Single Core								
1.5	7 / 0.53	1.59	0.7	1.4	6.1	12.1	3.5	55
2.5	7 / 0.67	2.01	0.7	1.4	6.6	7.41	3.5	67
4	7 / 0.85	2.55	0.7	1.4	7.1	4.61	3.5	85
6	7 / 1.04	3.12	0.7	1.4	7.1	3.08	3.5	109
10	7 / 1.35	4.05	0.7	1.4	8.6	1.83	3.5	154
16	C.C	4.7	0.7	1.4	9.3	1.15	3.5	218
25	C.C	5.9	0.9	1.4	11.0	0.727	3.5	321
35	C.C	6.9	0.9	1.4	12.1	0.524	3.5	419
50	C.C	8.1	1.0	1.4	13.4	0.387	3.5	550
70	C.C	9.8	1.1	1.4	15.4	0.268	3.5	763
95	C.C	11.4	1.1	1.5	17.6	0.193	3.5	1,036
120	C.C	12.9	1.2	1.5	19.2	0.153	3.5	1,295
150	C.C	14.4	1.4	1.6	21.2	0.124	3.5	1,564
185	C.C	15.9	1.6	1.6	23.4	0.0991	3.5	1,936
240	C.C	18.3	1.7	1.7	26.3	0.0754	3.5	2,532
300	C.C	20.5	1.8	1.8	28.7	0.0601	3.5	3,148
400	C.C	23.2	2.0	1.9	32.0	0.0470	3.5	3,941
500	C.C	26.4	2.2	2.0	36.0	0.0366	3.5	5,005
630	C.C	30.2	2.4	2.2	40.6	0.0283	3.5	6,437
2 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	10.1	12.1	3.5	126
2.5	7 / 0.67	2.01	0.7	1.8	11.0	7.41	3.5	155
4	7 / 0.85	2.55	0.7	1.8	12.0	4.61	3.5	198
6	7 / 1.04	3.12	0.7	1.8	13.2	3.08	3.5	252
10	7 / 1.35	4.05	0.7	1.8	15.0	1.83	3.5	355
16	C.C	4.7	0.7	1.8	16.5	1.15	3.5	494
25	C.C	5.9	0.9	1.8	19.9	0.727	3.5	729
35	C.C	6.9	0.9	1.8	22.1	0.524	3.5	947
50	C.C	8.1	1.0	1.8	25.0	0.387	3.5	1,241
70	C.C	9.8	1.1	1.8	29.0	0.268	3.5	1,717
95	C.C	11.4	1.1	1.9	32.8	0.193	3.5	2,294
120	C.C	12.9	1.2	2.0	36.2	0.153	3.5	2,878
150	C.C	14.4	1.4	2.2	40.6	0.124	3.5	3,524
185	C.C	15.9	1.6	2.3	44.7	0.0991	3.5	4,343
240	C.C	18.3	1.7	2.5	50.5	0.0754	3.5	5,677
300	C.C	20.5	1.8	2.6	55.2	0.0601	3.5	7,019

* C.C : Circular compacted stranded conductor

0.6/1kV CV, 0.6/1kV HFCO



0.6/1kV TFR-CV



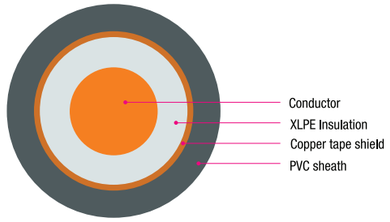
0.6/1kV CV : XLPE insulated PVC sheathed power cable
0.6/1kV HFCO : Halogen free flame retardant polyolefin power cable
0.6/1kV TFR-CV : XLPE insulated FR-PVC sheathed power cable in tray use

KS C IEC 60502-1, JSC standard

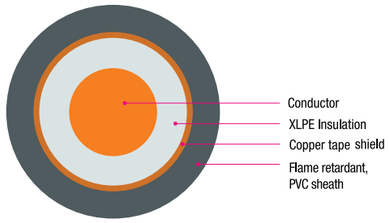
Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
3 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	10.6	12.1	3.5	149
2.5	7 / 0.67	2.01	0.7	1.8	11.5	7.41	3.5	187
4	7 / 0.85	2.55	0.7	1.8	12.7	4.61	3.5	246
6	7 / 1.04	3.12	0.7	1.8	13.9	3.08	3.5	318
10	7 / 1.35	4.05	0.7	1.8	15.9	1.83	3.5	460
16	C.C	4.7	0.7	1.8	17.5	1.15	3.5	658
25	C.C	5.9	0.9	1.8	21.2	0.727	3.5	983
35	C.C	6.9	0.9	1.8	23.6	0.524	3.5	1,292
50	C.C	8.1	1.0	1.8	26.7	0.387	3.5	1,705
70	C.C	9.8	1.1	1.9	31.2	0.268	3.5	2,394
95	C.C	11.4	1.1	2.0	35.2	0.193	3.5	3,212
120	C.C	12.9	1.2	2.1	38.9	0.153	3.5	4,042
150	C.C	14.4	1.4	2.3	43.6	0.124	3.5	4,942
185	C.C	15.9	1.6	2.4	48.0	0.0991	3.5	6,104
240	C.C	18.3	1.7	2.6	54.2	0.0754	3.5	7,996
300	C.C	20.5	1.8	2.7	59.7	0.0601	3.5	9,921
4 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	11.4	12.1	3.5	177
2.5	7 / 0.67	2.01	0.7	1.8	12.4	7.41	3.5	226
4	7 / 0.85	2.55	0.7	1.8	13.7	4.61	3.5	301
6	7 / 1.04	3.12	0.7	1.8	15.1	3.08	3.5	394
10	7 / 1.35	4.05	0.7	1.8	17.3	1.83	3.5	578
16	C.C	4.7	0.7	1.8	19.2	1.15	3.5	837
25	C.C	5.9	0.9	1.8	23.3	0.727	3.5	1,260
35	C.C	6.9	0.9	1.8	25.9	0.524	3.5	1,663
50	C.C	8.1	1.0	1.9	29.6	0.387	3.5	2,218
70	C.C	9.8	1.1	2.0	34.6	0.268	3.5	3,119
95	C.C	11.4	1.1	2.1	39.1	0.193	3.5	4,193
120	C.C	12.9	1.2	2.3	43.4	0.153	3.5	5,304
150	C.C	14.4	1.4	2.4	48.4	0.124	3.5	6,455
185	C.C	15.9	1.6	2.6	53.5	0.0991	3.5	8,006
240	C.C	18.3	1.7	2.8	60.8	0.0754	3.5	10,497
300	C.C	20.5	1.8	3.0	66.7	0.0601	3.5	13,059

* C.C : Circular compacted stranded conductor

0.6/1kV CVS



0.6/1kV TFR-CVS

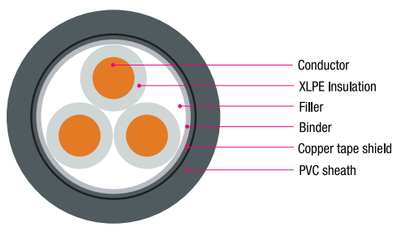


0.6/1kV CVS : XLPE insulated, copper tape shielded and PVC sheathed power cable
0.6/1kV TFR-CVS : XLPE insulated, copper tape shielded and FR-PVC sheathed power cable in tray use JSC standard

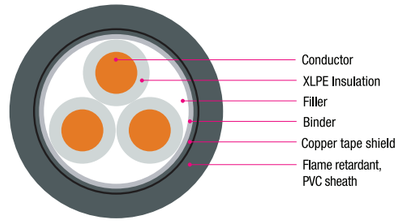
Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm^2	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
Single Core								
1.5	7 / 0.53	1.59	0.7	1.4	6.5	12.1	3.5	71
2.5	7 / 0.67	2.01	0.7	1.4	7.0	7.41	3.5	86
4	7 / 0.85	2.55	0.7	1.4	7.5	4.61	3.5	107
6	7 / 1.04	3.12	0.7	1.4	8.1	3.08	3.5	133
10	7 / 1.35	4.05	0.7	1.4	9.0	1.83	3.5	182
16	C.C	4.7	0.7	1.4	9.7	1.15	3.5	249
25	C.C	5.9	0.9	1.4	11.4	0.727	3.5	360
35	C.C	6.9	0.9	1.4	12.5	0.524	3.5	463
50	C.C	8.1	1.0	1.4	14.1	0.387	3.5	601
70	C.C	9.8	1.1	1.5	16.1	0.268	3.5	824
95	C.C	11.4	1.1	1.5	18.1	0.193	3.5	1,095
120	C.C	12.9	1.2	1.6	19.9	0.153	3.5	1,370
150	C.C	14.4	1.4	1.6	21.9	0.124	3.5	1,649
185	C.C	15.9	1.6	1.7	24.1	0.0991	3.5	2,029
240	C.C	18.3	1.7	1.8	27.0	0.0754	3.5	2,637
300	C.C	20.5	1.8	1.9	29.4	0.0601	3.5	3,263
400	C.C	23.2	2.0	2.0	32.7	0.0470	3.5	4,071
500	C.C	26.4	2.2	2.1	36.7	0.0366	3.5	5,151
630	C.C	30.2	2.4	2.3	41.3	0.0283	3.5	6,589
2 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	10.5	12.1	3.5	157
2.5	7 / 0.67	2.01	0.7	1.8	11.4	7.41	3.5	189
4	7 / 0.85	2.55	0.7	1.8	12.4	4.61	3.5	237
6	7 / 1.04	3.12	0.7	1.8	13.6	3.08	3.5	295
10	7 / 1.35	4.05	0.7	1.8	15.4	1.83	3.5	405
16	C.C	4.7	0.7	1.8	16.9	1.15	3.5	551
25	C.C	5.9	0.9	1.8	20.3	0.727	3.5	799
35	C.C	6.9	0.9	1.8	22.5	0.524	3.5	1,026
50	C.C	8.1	1.0	1.8	25.7	0.387	3.5	1,337
70	C.C	9.8	1.1	1.9	29.9	0.268	3.5	1,845
95	C.C	11.4	1.1	2.0	33.7	0.193	3.5	2,438
120	C.C	12.9	1.2	2.1	37.1	0.153	3.5	3,037
150	C.C	14.4	1.4	2.3	41.5	0.124	3.5	3,703
185	C.C	15.9	1.6	2.4	45.6	0.0991	3.5	4,541
240	C.C	18.3	1.7	2.6	51.4	0.0754	3.5	5,900
300	C.C	20.5	1.8	2.8	56.7	0.0601	3.5	7,313

* C.C : Circular compacted stranded conductor

0.6/1kV CVS



0.6/1kV TFR-CVS

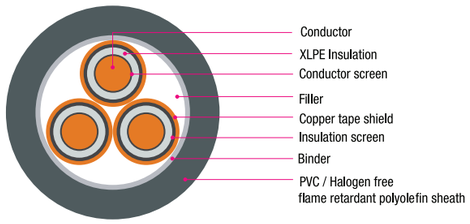


0.6/1kV CVS : XLPE insulated, copper tape shielded and PVC sheathed power cable
0.6/1kV TFR-CVS : XLPE insulated, copper tape shielded and FR-PVC sheathed power cable in tray use JSC standard

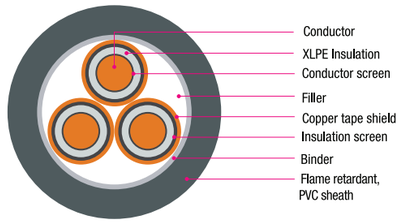
Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm^2	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
3 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	11.0	12.1	3.5	182
2.5	7 / 0.67	2.01	0.7	1.8	11.9	7.41	3.5	224
4	7 / 0.85	2.55	0.7	1.8	13.1	4.61	3.5	287
6	7 / 1.04	3.12	0.7	1.8	14.3	3.08	3.5	365
10	7 / 1.35	4.05	0.7	1.8	16.3	1.83	3.5	515
16	C.C	4.7	0.7	1.8	17.9	1.15	3.5	719
25	C.C	5.9	0.9	1.8	21.6	0.727	3.5	1,059
35	C.C	6.9	0.9	1.8	24.0	0.524	3.5	1,377
50	C.C	8.1	1.0	1.8	27.4	0.387	3.5	1,808
70	C.C	9.8	1.1	2.0	32.1	0.268	3.5	2,531
95	C.C	11.4	1.1	2.1	36.1	0.193	3.5	3,368
120	C.C	12.9	1.2	2.2	39.8	0.153	3.5	4,214
150	C.C	14.4	1.4	2.4	44.5	0.124	3.5	5,136
185	C.C	15.9	1.6	2.5	48.9	0.0991	3.5	5,318
240	C.C	18.3	1.7	2.7	55.1	0.0754	3.5	8,238
300	C.C	20.5	1.8	2.9	61.2	0.0601	3.5	10,243
4 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	11.8	12.1	3.5	211
2.5	7 / 0.67	2.01	0.7	1.8	12.8	7.41	3.5	263
4	7 / 0.85	2.55	0.7	1.8	14.1	4.61	3.5	343
6	7 / 1.04	3.12	0.7	1.8	15.5	3.08	3.5	441
10	7 / 1.35	4.05	0.7	1.8	17.7	1.83	3.5	633
16	C.C	4.7	0.7	1.8	19.6	1.15	3.5	899
25	C.C	5.9	0.9	1.8	23.7	0.727	3.5	1,335
35	C.C	6.9	0.9	1.8	26.3	0.524	3.5	1,748
50	C.C	8.1	1.0	1.9	30.3	0.387	3.5	2,319
70	C.C	9.8	1.1	2.1	35.5	0.268	3.5	3,252
95	C.C	11.4	1.1	2.2	40.0	0.193	3.5	4,342
120	C.C	12.9	1.2	2.4	44.3	0.153	3.5	5,465
150	C.C	14.4	1.4	2.5	49.3	0.124	3.5	6,630
185	C.C	15.9	1.6	2.7	54.4	0.0991	3.5	8,193
240	C.C	18.3	1.7	2.9	62.3	0.0754	3.5	10,739
300	C.C	20.5	1.8	3.1	68.2	0.0601	3.5	13,358

* C.C : Circular compacted stranded conductor

6/10kV CV, 6/10kV HFCO



6/10kV TFR-CV



6/10kV CV : XLPE insulated PVC sheathed power cable
6/10kV HFCO : Halogen free flame retardant polyolefin power cable
6/10kV TFR-CV : XLPE insulated FR-PVC sheathed power cable in tray use

KS C IEC 60502-2
KS C 3341, JSC standard

Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
Single Core								
16	C.C	4.7	3.4	1.5	17.8	1.15	21	479
25	C.C	5.9	3.4	1.5	19.3	0.727	21	599
35	C.C	6.9	3.4	1.6	20.4	0.524	21	726
50	C.C	8.1	3.4	1.6	21.8	0.387	21	883
70	C.C	9.8	3.4	1.7	23.7	0.268	21	1,131
95	C.C	11.4	3.4	1.7	25.7	0.193	21	1,419
120	C.C	12.9	3.4	1.8	27.1	0.153	21	1,708
150	C.C	14.4	3.4	1.8	28.9	0.124	21	1,991
185	C.C	15.9	3.4	1.9	30.5	0.0991	21	2,375
240	C.C	18.3	3.4	2.0	33.2	0.0754	21	3,005
300	C.C	20.5	3.4	2.0	35.4	0.0601	21	3,629
400	C.C	23.2	3.4	2.2	38.7	0.0470	21	4,526
500	C.C	26.4	3.4	2.2	42.3	0.0366	21	5,605
630	C.C	30.2	3.4	2.3	46.5	0.0283	21	7,045
4 Cores								
16	C.C	4.7	3.4	2.1	35.8	1.15	21	1,484
25	C.C	5.9	3.4	2.2	38.8	0.727	21	1,880
35	C.C	6.9	3.4	2.3	41.4	0.524	21	2,274
50	C.C	8.1	3.4	2.4	44.2	0.387	21	2,760
70	C.C	9.8	3.4	2.5	48.1	0.268	21	3,530
95	C.C	11.4	3.4	2.6	52.2	0.193	21	4,462
120	C.C	12.9	3.4	2.7	55.4	0.153	21	5,356
150	C.C	14.4	3.4	2.8	59.4	0.124	21	6,303
185	C.C	15.9	3.4	2.9	63.0	0.0991	21	7,497
240	C.C	18.3	3.4	3.1	68.8	0.0754	21	9,497
300	C.C	20.5	3.4	3.3	73.6	0.0601	21	11,523

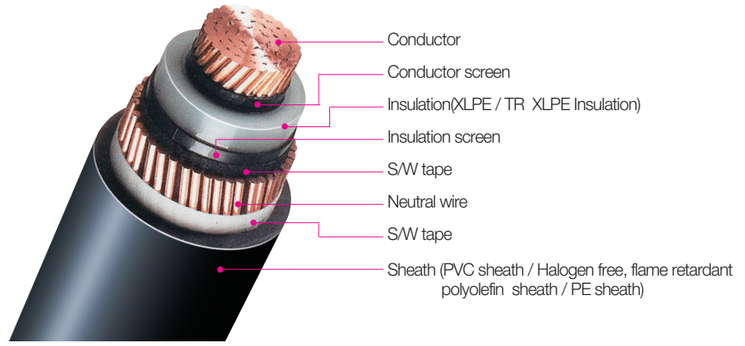
* C.C : Circular compacted stranded conductor

22.9kV-y CNCV-W
22.9kV Concentric neutral type crosslinked polyethylene insulated vinyl sheathed power cables

22.9kV-y FR CNCO-W
22.9kV Flame retardant concentric neutral type crosslinked polyethylene insulated halogen free polyolefin sheathed water-proof power cable

22.9kV-y TR CNCV-W
22.9kV Concentric neutral type tree retardant crosslinked polyethylene insulated PVC sheathed water-proof power cable

22.9kV-y TR CNCE-W
2.9kV-y Concentric neutral type water tree retardant XLPE insulated extruded to - fill - polyethylene jacketed water-proof power cable



22.9kV-y CNCV-W / 22.9kV-y FR CNCO-W / 22.9kV-y TR CNCV-W

KEPCO RS-6145-0019
KEPCO RS-6145-0027

Nominal Sectional Area	Conductor Diameter	Thickness of Insulation	Insulation Diameter	Neutral Wire				Sheath Thickness	Overall Diameter	Max. Overall Diameter	Max. Resistance of Conductor at 20℃	Min. Insulation Resistance at 20℃	Electrost-atic Capacity
				Wire Diameter	No. of Wire	Nominal Sectional Area	Diameter						
mm²	mm	mm	mm	mm	No.	mm²	mm	mm	mm	mm	Ω/km	MΩ/km	μF/km
60	9.3±0.2	6.6	24.5	1.2	18	20	30	3.0	36	39	0.305	3,000	0.21
200	17.0±0.3	6.6	32.1	2.0	21	66	39	3.0	45	48	0.0915	2,000	0.32
325	21.7±0.3	6.6	36.8	2.3	26	108	44	3.0	51	54	0.0568	2,000	0.36
600	29.5±0.5	6.6	44.6	2.6	38	201	53	4.0	61	64	0.0308	1,500	0.47

22.9kV-y TR CNCE-W

KEPCO RS-6145-0034

Nominal Sectional Area	Conductor Diameter	Thickness of Insulation	Max. Insulation Diameter	Neutral Wire				Sheath Thickness	Overall Diameter	Max. Overall Diameter	Max. Resistance of Conductor at 20℃	Min. Insulation Resistance at 20℃	Electrost-atic Capacity
				Wire Diameter	No. of Wire	Nominal Sectional Area	Diameter						
mm²	mm	mm	mm	mm	No.	mm²	mm	mm	mm	mm	Ω/km	MΩ/km	μF/km
60	9.3±0.2	6.8	24.63	1.2	18	20	29.0	1.5	32.0	35	0.305	3,000	0.21
200	17.0±0.3	6.8	32.61	2.0	21	66	39.0	1.5	42.0	45	0.0915	2,000	0.32
325	21.7±0.3	6.8	37.56	2.3	26	108	43.5	2.4	49.5	53	0.0568	2,000	0.36
600	29.5±0.5	6.8	45.61	2.6	38	200	53.9	2.4	59.0	62	0.0308	1,500	0.47

Wire & Cable

One-stop Total Solution

Control Cables

»» Construction of control cables

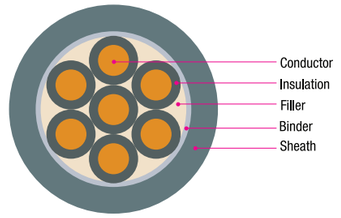
»» Control Cables

- 0.6/1kV CVV : PVC insulated PVC sheathed control cable
- 0.6/1kV TFR-CVV : FR-PVC insulated FR-PVC sheathed control cable in tray use
- 0.6/1kV HFCCO : Halogen free flame retardant polyolefin control cable
- 0.6/1kV CVVS : PVC insulated, copper tape shielded and PVC sheathed control cable
- 0.6/1kV TFR-CVVS : FR-PVC insulated, copper tape shielded and FR-PVC sheathed control cable in tray use
- 0.6/1kV CVVSB : PVC insulated, copper wire braid shielded and PVC sheathed control cable
- 0.6/1kV TFR-CVVSB : FR-PVC insulated, copper wire braid shielded and FR-PVC sheathed control cable in tray use
- 0.6/1kV CVVAMS : PVC insulated, Aluminum mylar tape collective shielded and PVC sheathed control cable
- 0.6/1kV TFR-CVVAMS : FR-PVC insulated, Aluminum mylar tape collective shielded and FR-PVC sheathed control cable in tray use
- 0.6/1kV CVV-I/C AMS : PVC insulated, Aluminum mylar tape individual & collective shielded and PVC sheathed control cable
- 0.6/1kV TFR-CVV-I/C AMS : FR-PVC insulated, Aluminum mylar tape individual & collective shielded and FR-PVC sheathed control cable in tray use

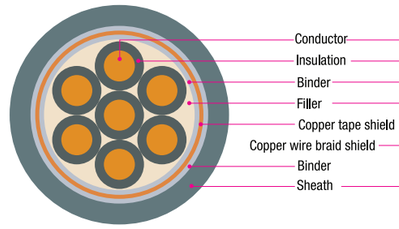
JS Cable

Construction of control cables

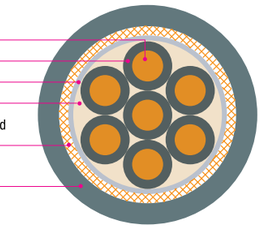
General type



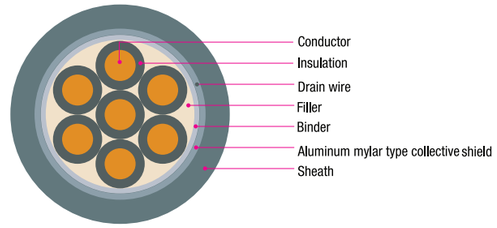
Copper tape collective shield(-S)



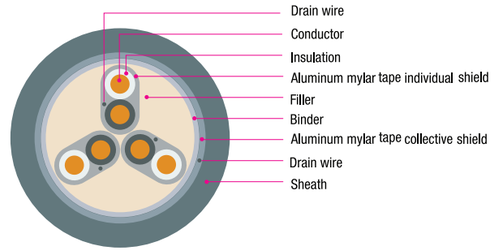
Copper wire braid collective shield(-SB)



Aluminum mylar tape collective shield(-AMS)



Aluminum mylar tape individual & collective shield(-I/C AMS)



Control Cables

0.6/1kV CVV : PVC insulated PVC sheathed control cable
0.6/1kV TFR-CVV : FR-PVC insulated FR-PVC sheathed control cable in tray use

KS C IEC 60502-1
JSC standard

No. of Core	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
	Nominal Sectional Area	No. of Wire / Wire Diameter	Approx. Outer Diameter						
	mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
2	1.5	7 / 0.53	1.59	0.8	1.8	11.0	12.1	3.5	146
	2.5	7 / 0.67	2.01	0.8	1.8	12.0	7.41	3.5	177
	4	7 / 0.85	2.55	1.0	1.8	14.0	4.61	3.5	244
	6	7 / 1.04	3.12	1.0	1.8	15.0	3.08	3.5	302
	10	7 / 1.35	4.05	1.0	1.8	17.0	1.83	3.5	413
3	1.5	7 / 0.53	1.59	0.8	1.8	11.5	12.1	3.5	174
	2.5	7 / 0.67	2.01	0.8	1.8	12.5	7.41	3.5	216
	4	7 / 0.85	2.55	1.0	1.8	14.5	4.61	3.5	304
	6	7 / 1.04	3.12	1.0	1.8	16.0	3.08	3.5	383
	10	7 / 1.35	4.05	1.0	1.8	18.0	1.83	3.5	537
4	1.5	7 / 0.53	1.59	0.8	1.8	12.5	12.1	3.5	209
	2.5	7 / 0.67	2.01	0.8	1.8	13.5	7.41	3.5	262
	4	7 / 0.85	2.55	1.0	1.8	16.0	4.61	3.5	374
	6	7 / 1.04	3.12	1.0	1.8	17.0	3.08	3.5	476
	10	7 / 1.35	4.05	1.0	1.8	19.5	1.83	3.5	675
5	1.5	7 / 0.53	1.59	0.8	1.8	13.5	12.1	3.5	245
	2.5	7 / 0.67	2.01	0.8	1.8	14.5	7.41	3.5	311
	4	7 / 0.85	2.55	1.0	1.8	17.0	4.61	3.5	445
	6	7 / 1.04	3.12	1.0	1.8	18.5	3.08	3.5	573
	10	7 / 1.35	4.05	1.0	1.8	21.0	1.83	3.5	820
6	1.5	7 / 0.53	1.59	0.8	1.8	14.5	12.1	3.5	283
	2.5	7 / 0.67	2.01	0.8	1.8	15.5	7.41	3.5	361
	4	7 / 0.85	2.55	1.0	1.8	18.5	4.61	3.5	523
	6	7 / 1.04	3.12	1.0	1.8	21.0	3.08	3.5	674
	10	7 / 1.35	4.05	1.0	1.8	23.0	1.83	3.5	968
7	1.5	7 / 0.53	1.59	0.8	1.8	14.5	12.1	3.5	303
	2.5	7 / 0.67	2.01	0.8	1.8	15.5	7.41	3.5	391
	4	7 / 0.85	2.55	1.0	1.8	18.5	4.61	3.5	571
	6	7 / 1.04	3.12	1.0	1.8	21.0	3.08	3.5	741
	10	7 / 1.35	4.05	1.0	1.8	23.0	1.83	3.5	1,072
8	1.5	7 / 0.53	1.59	0.8	1.8	15.5	12.1	3.5	342
	2.5	7 / 0.67	2.01	0.8	1.8	16.5	7.41	3.5	443
	4	7 / 0.85	2.55	1.0	1.8	20.0	4.61	3.5	649
	6	7 / 1.04	3.12	1.0	1.8	22.0	3.08	3.5	843
	10	7 / 1.35	4.05	1.0	1.8	25.0	1.83	3.5	1,224
10	1.5	7 / 0.53	1.59	0.8	1.8	18.0	12.1	3.5	429
	2.5	7 / 0.67	2.01	0.8	1.8	19.5	7.41	3.5	556
	4	7 / 0.85	2.55	1.0	1.8	23.0	4.61	3.5	820
	6	7 / 1.04	3.12	1.0	1.8	26.0	3.08	3.5	1,068
	10	7 / 1.35	4.05	1.0	1.8	29.0	1.83	3.5	1,552
12	1.5	7 / 0.53	1.59	0.8	1.8	18.5	12.1	3.5	481
	2.5	7 / 0.67	2.01	0.8	1.8	20.0	7.41	3.5	625
	4	7 / 0.85	2.55	1.0	1.8	24.0	4.61	3.5	934
	6	7 / 1.04	3.12	1.0	1.8	27.0	3.08	3.5	1,222
	10	7 / 1.35	4.05	1.0	1.8	30.0	1.83	3.5	1,789
15	1.5	7 / 0.53	1.59	0.8	1.8	19.5	12.1	3.5	571
	2.5	7 / 0.67	2.01	0.8	1.8	22.0	7.41	3.5	752
	4	7 / 0.85	2.55	1.0	1.8	26.0	4.61	3.5	1,124
	6	7 / 1.04	3.12	1.0	1.8	29.0	3.08	3.5	1,479
20	1.5	7 / 0.53	1.59	0.8	1.8	22.0	12.1	3.5	721
	2.5	7 / 0.67	2.01	0.8	1.8	24.0	7.41	3.5	957
	4	7 / 0.85	2.55	1.0	1.8	29.0	4.61	3.5	1,444
	6	7 / 1.04	3.12	1.0	1.8	32.0	3.08	3.5	1,911
30	1.5	7 / 0.53	1.59	0.8	1.8	26.0	12.1	3.5	1,031
	2.5	7 / 0.67	2.01	0.8	1.8	28.0	7.41	3.5	1,380
	4	7 / 0.85	2.55	1.0	1.8	35.0	4.61	3.5	2,116

0.6/1kV HFCCO : Halogen free flame retardant polyolefin control cable

KS C IEC 60502-1, JSC standard

No. of Core	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
	Nominal Sectional Area	No. of Wire / Wire Diameter	Approx. Outer Diameter						
	mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
2	1.5	7 / 0.53	1.59	0.7	1.8	10.6	12.1	3.5	130
	2.5	7 / 0.67	2.01	0.7	1.8	11.5	7.41	3.5	160
	4	7 / 0.85	2.55	0.7	1.8	12.6	4.61	3.5	203
	6	7 / 1.04	3.12	0.7	1.8	13.8	3.08	3.5	257
	10	7 / 1.35	4.05	0.7	1.8	15.7	1.83	3.5	360
3	1.5	7 / 0.53	1.59	0.7	1.8	11.1	12.1	3.5	153
	2.5	7 / 0.67	2.01	0.7	1.8	12.1	7.41	3.5	192
	4	7 / 0.85	2.55	0.7	1.8	13.2	4.61	3.5	250
	6	7 / 1.04	3.12	0.7	1.8	14.5	3.08	3.5	323
	10	7 / 1.35	4.05	0.7	1.8	16.6	1.83	3.5	466
4	1.5	7 / 0.53	1.59	0.7	1.8	11.9	12.1	3.5	181
	2.5	7 / 0.67	2.01	0.7	1.8	13.0	7.41	3.5	230
	4	7 / 0.85	2.55	0.7	1.8	14.3	4.61	3.5	305
	6	7 / 1.04	3.12	0.7	1.8	15.7	3.08	3.5	398
	10	7 / 1.35	4.05	0.7	1.8	18.0	1.83	3.5	583
5	1.5	7 / 0.53	1.59	0.7	1.8	12.8	12.1	3.5	210
	2.5	7 / 0.67	2.01	0.7	1.8	14.0	7.41	3.5	271
	4	7 / 0.85	2.55	0.7	1.8	15.6	4.61	3.5	363
	6	7 / 1.04	3.12	0.7	1.8	17.1	3.08	3.5	478
	10	7 / 1.35	4.05	0.7	1.8	19.7	1.83	3.5	705
6	1.5	7 / 0.53	1.59	0.7	1.8	13.8	12.1	3.5	242
	2.5	7 / 0.67	2.01	0.7	1.8	15.1	7.41	3.5	313
	4	7 / 0.85	2.55	0.7	1.8	16.7	4.61	3.5	423
	6	7 / 1.04	3.12	0.7	1.8	18.6	3.08	3.5	561
	10	7 / 1.35	4.05	0.7	1.8	21.4	1.83	3.5	831
7	1.5	7 / 0.53	1.59	0.7	1.8	13.8	12.1	3.5	257
	2.5	7 / 0.67	2.01	0.7	1.8	15.1	7.41	3.5	336
	4	7 / 0.85	2.55	0.7	1.8	16.7	4.61	3.5	459
	6	7 / 1.04	3.12	0.7	1.8	18.6	3.08	3.5	615
	10	7 / 1.35	4.05	0.7	1.8	21.4	1.83	3.5	920
8	1.5	7 / 0.53	1.59	0.7	1.8	14.8	12.1	3.5	289
	2.5	7 / 0.67	2.01	0.7	1.8	16.2	7.41	3.5	380
	4	7 / 0.85	2.55	0.7	1.8	18.0	4.61	3.5	521
	6	7 / 1.04	3.12	0.7	1.8	20.0	3.08	3.5	698
	10	7 / 1.35	4.05	0.7	1.8	23.1	1.83	3.5	1,049
10	1.5	7 / 0.53	1.59	0.7	1.8	17.0	12.1	3.5	361
	2.5	7 / 0.67	2.01	0.7	1.8	18.7	7.41	3.5	477
	4	7 / 0.85	2.55	0.7	1.8	20.9	4.61	3.5	655
	6	7 / 1.04	3.12	0.7	1.8	23.3	3.08	3.5	880
	10	7 / 1.35	4.05	0.7	1.8	27.1	1.83	3.5	1,327
12	1.5	7 / 0.53	1.59	0.7	1.8	17.5	12.1	3.5	401
	2.5	7 / 0.67	2.01	0.7	1.8	19.3	7.41	3.5	535
	4	7 / 0.85	2.55	0.7	1.8	23.2	4.61	3.5	759
	6	7 / 1.04	3.12	0.7	1.8	24.0	3.08	3.5	1,005
	10	7 / 1.35	4.05	0.7	1.8	28.0	1.83	3.5	1,528
15	1.5	7 / 0.53	1.59	0.7	1.8	18.7	12.1	3.5	472
	2.5	7 / 0.67	2.01	0.7	1.8	20.7	7.41	3.5	636
	4	7 / 0.85	2.55	0.7	1.8	23.2	4.61	3.5	891
	6	7 / 1.04	3.12	0.7	1.8	25.9	3.08	3.5	1,213
20	1.5	7 / 0.53	1.59	0.7	1.8	20.7	12.1	3.5	591
	2.5	7 / 0.67	2.01	0.7	1.8	23.0	7.41	3.5	805
	4	7 / 0.85	2.55	0.7	1.8	25.9	4.61	3.5	1,139
	6	7 / 1.04	3.12	0.7	1.8	28.9	3.08	3.5	1,562
30	1.5	7 / 0.53	1.59	0.7	1.8	24.7	12.1	3.5	837
	2.5	7 / 0.67	2.01	0.7	1.8	27.4	7.41	3.5	1,153
	4	7 / 0.85	2.55	0.7	1.8	31.0	4.61	3.5	1,647

0.6/1kV CVVS : PVC insulated, copper tape shielded and PVC sheathed control cable
0.6/1kV TFR-CVVS : FR-PVC insulated, copper tape shielded and FR-PVC sheathed control cable in tray use

KS C IEC 60502-1
JSC standard

No. of Core	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
	Nominal Sectional Area	No. of Wire / Wire Diameter	Approx. Outer Diameter						
	mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
2	1.5	7 / 0.53	1.59	0.8	1.8	11.4	12.1	3.5	178
	2.5	7 / 0.67	2.01	0.8	1.8	12.3	7.41	3.5	213
	4	7 / 0.85	2.55	1.0	1.8	14.2	4.61	3.5	287
	6	7 / 1.04	3.12	1.0	1.8	15.4	3.08	3.5	350
	10	7 / 1.35	4.05	1.0	1.8	16.9	1.83	3.5	413
3	1.5	7 / 0.53	1.59	0.8	1.8	11.9	12.1	3.5	209
	2.5	7 / 0.67	2.01	0.8	1.8	12.9	7.41	3.5	254
	4	7 / 0.85	2.55	1.0	1.8	15.0	4.61	3.5	351
	6	7 / 1.04	3.12	1.0	1.8	16.2	3.08	3.5	435
	10	7 / 1.35	4.05	1.0	1.8	17.9	1.83	3.5	537
4	1.5	7 / 0.53	1.59	0.8	1.8	12.8	12.1	3.5	247
	2.5	7 / 0.67	2.01	0.8	1.8	13.9	7.41	3.5	305
	4	7 / 0.85	2.55	1.0	1.8	16.2	4.61	3.5	425
	6	7 / 1.04	3.12	1.0	1.8	17.6	3.08	3.5	533
	10	7 / 1.35	4.05	1.0	1.8	19.5	1.83	3.5	675
5	1.5	7 / 0.53	1.59	0.8	1.8	13.8	12.1	3.5	287
	2.5	7 / 0.67	2.01	0.8	1.8	15.0	7.41	3.5	357
	4	7 / 0.85	2.55	1.0	1.8	17.3	4.61	3.5	500
	6	7 / 1.04	3.12	1.0	1.8	19.2	3.08	3.5	636
	10	7 / 1.35	4.05	1.0	1.8	21.4	1.83	3.5	820
6	1.5	7 / 0.53	1.59	0.8	1.8	14.8	12.1	3.5	328
	2.5	7 / 0.67	2.01	0.8	1.8	16.1	7.41	3.5	412
	4	7 / 0.85	2.55	1.0	1.8	19.0	4.61	3.5	586
	6	7 / 1.04	3.12	1.0	1.8	20.8	3.08	3.5	744
	10	7 / 1.35	4.05	1.0	1.8	23.2	1.83	3.5	968
7	1.5	7 / 0.53	1.59	0.8	1.8	14.8	12.1	3.5	349
	2.5	7 / 0.67	2.01	0.8	1.8	16.1	7.41	3.5	442
	4	7 / 0.85	2.55	1.0	1.8	19.0	4.61	3.5	633
	6	7 / 1.04	3.12	1.0	1.8	20.8	3.08	3.5	810
	10	7 / 1.35	4.05	1.0	1.8	23.2	1.83	3.5	1,072
8	1.5	7 / 0.53	1.59	0.8	1.8	15.8	12.1	3.5	392
	2.5	7 / 0.67	2.01	0.8	1.8	17.3	7.41	3.5	498
	4	7 / 0.85	2.55	1.0	1.8	20.5	4.61	3.5	718
	6	7 / 1.04	3.12	1.0	1.8	21.7	3.08	3.5	919
	10	7 / 1.35	4.05	1.0	1.8	24.5	1.83	3.5	1,224
10	1.5	7 / 0.53	1.59	0.8	1.8	18.2	12.1	3.5	488
	2.5	7 / 0.67	2.01	0.8	1.8	19.9	7.41	3.5	622
	4	7 / 0.85	2.55	1.0	1.8	23.8	4.61	3.5	902
	6	7 / 1.04	3.12	1.0	1.8	22.4	3.08	3.5	1,159
	10	7 / 1.35	4.05	1.0	1.8	29.6	1.83	3.5	1,552
12	1.5	7 / 0.53	1.59	0.8	1.8	18.7	12.1	3.5	542
	2.5	7 / 0.67	2.01	0.8	1.8	20.5	7.41	3.5	697
	4	7 / 0.85	2.55	1.0	1.8	24.6	4.61	3.5	1,018
	6	7 / 1.04	3.12	1.0	1.8	27.0	3.08	3.5	1,316
	10	7 / 1.35	4.05	1.0	1.8	30.5	1.83	3.5	1,789
15	1.5	7 / 0.53	1.59	0.8	1.8	20.0	12.1	3.5	637
	2.5	7 / 0.67	2.01	0.8	1.8	22.1	7.41	3.5	827
	4	7 / 0.85	2.55	1.0	1.8	26.4	4.61	3.5	1,216
	6	7 / 1.04	3.12	1.0	1.8	29.1	3.08	3.5	1,582
20	1.5	7 / 0.53	1.59	0.8	1.8	22.1	12.1	3.5	796
	2.5	7 / 0.67	2.01	0.8	1.8	24.5	7.41	3.5	1,041
	4	7 / 0.85	2.55	1.0	1.8	29.5	4.61	3.5	1,547
	6	7 / 1.04	3.12	1.0	1.8	32.5	3.08	3.5	2,026
30	1.5	7 / 0.53	1.59	0.8	1.8	26.3	12.1	3.5	1,122
	2.5	7 / 0.67	2.01	0.8	1.8	28.2	7.41	3.5	1,482
	4	7 / 0.85	2.55	1.0	1.9	35.6	4.61	3.5	2,244

0.6/1kV CVVSB : PVC insulated, copper wire braid shielded and PVC sheathed control cable
0.6/1kV TFR-CVVSB : FR-PVC insulated, copper wire braid shielded and FR-PVC sheathed control cable in tray use

KS C IEC 60502-1, JSC standard

No. of Core	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
	Nominal Sectional Area	No. of Wire / Wire Diameter	Approx. Outer Diameter						
	mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
2	1.5	7 / 0.53	1.59	0.8	1.8	11.7	12.1	3.5	180
	2.5	7 / 0.67	2.01	0.8	1.8	12.6	7.41	3.5	212
	4	7 / 0.85	2.55	1.0	1.8	14.5	4.61	3.5	285
	6	7 / 1.04	3.12	1.0	1.8	15.8	3.08	3.5	317
	10	7 / 1.35	4.05	1.0	1.8	16.9	1.83	3.5	465
3	1.5	7 / 0.53	1.59	0.8	1.8	12.3	12.1	3.5	212
	2.5	7 / 0.67	2.01	0.8	1.8	13.2	7.41	3.5	253
	4	7 / 0.85	2.55	1.0	1.8	15.4	4.61	3.5	355
	6	7 / 1.04	3.12	1.0	1.8	16.6	3.08	3.5	399
	10	7 / 1.35	4.05	1.0	1.8	17.9	1.83	3.5	592
4	1.5	7 / 0.53	1.59	0.8	1.8	13.1	12.1	3.5	250
	2.5	7 / 0.67	2.01	0.8	1.8	14.2	7.41	3.5	303
	4	7 / 0.85	2.55	1.0	1.8	16.6	4.61	3.5	429
	6	7 / 1.04	3.12	1.0	1.8	18.0	3.08	3.5	492
	10	7 / 1.35	4.05	1.0	1.8	19.5	1.83	3.5	737
5	1.5	7 / 0.53	1.59	0.8	1.8	14.1	12.1	3.5	291
	2.5	7 / 0.67	2.01	0.8	1.8	15.4	7.41	3.5	361
	4	7 / 0.85	2.55	1.0	1.8	17.7	4.61	3.5	504
	6	7 / 1.04	3.12	1.0	1.8	19.6	3.08	3.5	591
	10	7 / 1.35	4.05	1.0	1.8	21.4	1.83	3.5	889
6	1.5	7 / 0.53	1.59	0.8	1.8	15.1	12.1	3.5	333
	2.5	7 / 0.67	2.01	0.8	1.8	16.5	7.41	3.5	416
	4	7 / 0.85	2.55	1.0	1.8	19.4	4.61	3.5	590
	6	7 / 1.04	3.12	1.0	1.8	21.2	3.08	3.5	693
	10	7 / 1.35	4.05	1.0	1.8	23.2	1.83	3.5	1054
7	1.5	7 / 0.53	1.59	0.8	1.8	15.1	12.1	3.5	355
	2.5	7 / 0.67	2.01	0.8	1.8	16.5	7.41	3.5	446
	4	7 / 0.85	2.55	1.0	1.8	19.4	4.61	3.5	637
	6	7 / 1.04	3.12	1.0	1.8	21.2	3.08	3.5	759
	10	7 / 1.35	4.05	1.0	1.8	23.2	1.83	3.5	1,158
8	1.5	7 / 0.53	1.59	0.8	1.8	16.2	12.1	3.5	406
	2.5	7 / 0.67	2.01	0.8	1.8	17.7	7.41	3.5	502
	4	7 / 0.85	2.55	1.0	1.8	20.9	4.61	3.5	722
	6	7 / 1.04	3.12	1.0	1.8	22.9	3.08	3.5	865
	10	7 / 1.35	4.05	1.0	1.8	25.2	1.83	3.5	1,319
10	1.5	7 / 0.53	1.59	0.8	1.8	18.6	12.1	3.5	504
	2.5	7 / 0.67	2.01	0.8	1.8	20.3	7.41	3.5	626
	4	7 / 0.85	2.55	1.0	1.8	24.3	4.61	3.5	916
	6	7 / 1.04	3.12	1.0	1.8	26.7	3.08	3.5	1,092
	10	7 / 1.35	4.05	1.0	1.8	29.6	1.83	3.5	1,666
12	1.5	7 / 0.53	1.59	0.8	1.8	19.1	12.1	3.5	560
	2.5	7 / 0.67	2.01	0.8	1.8	21.0	7.41	3.5	701
	4	7 / 0.85	2.55	1.0	1.8	25.1	4.61	3.5	1,033
	6	7 / 1.04	3.12	1.0	1.8	27.5	3.08	3.5	1,247
	10	7 / 1.35	4.05	1.0	1.8	30.5	1.83	3.5	1,921
15	1.5	7 / 0.53	1.59	0.8	1.8	20.4	12.1	3.5	659
	2.5	7 / 0.67	2.01	0.8	1.8	22.7	7.41	3.5	841
	4	7 / 0.85	2.55	1.0	1.8	26.9	4.61	3.5	1,231
	6	7 / 1.04	3.12	1.0	1.8	29.6	3.08	3.5	1,505
20	1.5	7 / 0.53	1.59	0.8	1.8	22.7	12.1	3.5	834
	2.5	7 / 0.67	2.01	0.8	1.8	25.0	7.41	3.5	1,056
	4	7 / 0.85	2.55	1.0	1.8	30.0	4.61	3.5	1,564
	6	7 / 1.04	3.12	1.0	1.8	33.1	3.08	3.5	1,942
30	1.5	7 / 0.53	1.59	0.8	1.8	26.8	12.1	3.5	1,174
	2.5	7 / 0.67	2.01	0.8	1.8	29.7	7.41	3.5	1,499
	4	7 / 0.85	2.55	1.0	1.9	36.2	4.61	3.5	2,280

0.6/1kV CVVAMS : PVC insulated, Aluminum mylar tape collective shielded and PVC sheathed control cable

0.6/1kV TFR-CVVAMS : FR-PVC insulated, Aluminum mylar tape collective shielded and FR-PVC sheathed control cable in tray use

KS C IEC 60502-1, JSC standard

No. of Core	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
	Nominal Sectional Area	No. of Wire / Wire Diameter	Approx. Outer Diameter						
	mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
2	1.5	7 / 0.53	1.59	0.8	1.8	11.3	12.1	3.5	159
	2.5	7 / 0.67	2.01	0.8	1.8	12.2	7.41	3.5	192
	4	7 / 0.85	2.55	1.0	1.8	14.1	4.61	3.5	259
	6	7 / 1.04	3.12	1.0	1.8	15.3	3.08	3.5	319
	10	7 / 1.35	4.05	1.0	1.8	16.8	1.83	3.5	431
3	1.5	7 / 0.53	1.59	0.8	1.8	11.8	12.1	3.5	188
	2.5	7 / 0.67	2.01	0.8	1.8	12.8	7.41	3.5	231
	4	7 / 0.85	2.55	1.0	1.8	14.9	4.61	3.5	321
	6	7 / 1.04	3.12	1.0	1.8	16.1	3.08	3.5	401
	10	7 / 1.35	4.05	1.0	1.8	17.8	1.83	3.5	556
4	1.5	7 / 0.53	1.59	0.8	1.8	12.7	12.1	3.5	223
	2.5	7 / 0.67	2.01	0.8	1.8	13.8	7.41	3.5	278
	4	7 / 0.85	2.55	1.0	1.8	16.1	4.61	3.5	391
	6	7 / 1.04	3.12	1.0	1.8	17.5	3.08	3.5	494
	10	7 / 1.35	4.05	1.0	1.8	19.4	1.83	3.5	695
5	1.5	7 / 0.53	1.59	0.8	1.8	13.7	12.1	3.5	261
	2.5	7 / 0.67	2.01	0.8	1.8	14.9	7.41	3.5	327
	4	7 / 0.85	2.55	1.0	1.8	17.2	4.61	3.5	466
	6	7 / 1.04	3.12	1.0	1.8	19.1	3.08	3.5	593
	10	7 / 1.35	4.05	1.0	1.8	21.3	1.83	3.5	841
6	1.5	7 / 0.53	1.59	0.8	1.8	14.7	12.1	3.5	299
	2.5	7 / 0.67	2.01	0.8	1.8	16.0	7.41	3.5	378
	4	7 / 0.85	2.55	1.0	1.8	18.9	4.61	3.5	543
	6	7 / 1.04	3.12	1.0	1.8	20.7	3.08	3.5	695
	10	7 / 1.35	4.05	1.0	1.8	23.1	1.83	3.5	991
7	1.5	7 / 0.53	1.59	0.8	1.8	14.7	12.1	3.5	320
	2.5	7 / 0.67	2.01	0.8	1.8	16.0	7.41	3.5	408
	4	7 / 0.85	2.55	1.0	1.8	18.9	4.61	3.5	590
	6	7 / 1.04	3.12	1.0	1.8	20.7	3.08	3.5	762
	10	7 / 1.35	4.05	1.0	1.8	23.1	1.83	3.5	1,095
8	1.5	7 / 0.53	1.59	0.8	1.8	15.7	12.1	3.5	360
	2.5	7 / 0.67	2.01	0.8	1.8	17.2	7.41	3.5	461
	4	7 / 0.85	2.55	1.0	1.8	20.4	4.61	3.5	670
	6	7 / 1.04	3.12	1.0	1.8	26.1	3.08	3.5	866
	10	7 / 1.35	4.05	1.0	1.8	25.1	1.83	3.5	1,249
10	1.5	7 / 0.53	1.59	0.8	1.8	18.1	12.1	3.5	448
	2.5	7 / 0.67	2.01	0.8	1.8	19.8	7.41	3.5	576
	4	7 / 0.85	2.55	1.0	1.8	23.7	4.61	3.5	843
	6	7 / 1.04	3.12	1.0	1.8	22.3	3.08	3.5	1,093
	10	7 / 1.35	4.05	1.0	1.8	29.5	1.83	3.5	1,580
12	1.5	7 / 0.53	1.59	0.8	1.8	18.6	12.1	3.5	500
	2.5	7 / 0.67	2.01	0.8	1.8	20.4	7.41	3.5	649
	4	7 / 0.85	2.55	1.0	1.8	24.5	4.61	3.5	957
	6	7 / 1.04	3.12	1.0	1.8	26.9	3.08	3.5	1,248
	10	7 / 1.35	4.05	1.0	1.8	30.4	1.83	3.5	1,818
15	1.5	7 / 0.53	1.59	0.8	1.8	19.9	12.1	3.5	591
	2.5	7 / 0.67	2.01	0.8	1.8	22.0	7.41	3.5	773
	4	7 / 0.85	2.55	1.0	1.8	26.3	4.61	3.5	1,149
	6	7 / 1.04	3.12	1.0	1.8	29.0	3.08	3.5	1,506
20	1.5	7 / 0.53	1.59	0.8	1.8	22.0	12.1	3.5	743
	2.5	7 / 0.67	2.01	0.8	1.8	24.4	7.41	3.5	981
	4	7 / 0.85	2.55	1.0	1.8	29.4	4.61	3.5	1,471
	6	7 / 1.04	3.12	1.0	1.8	32.4	3.08	3.5	1,940
30	1.5	7 / 0.53	1.59	0.8	1.8	26.2	12.1	3.5	1,056
	2.5	7 / 0.67	2.01	0.8	1.8	28.1	7.41	3.5	1,407
	4	7 / 0.85	2.55	1.0	1.9	35.5	4.61	3.5	2,148

0.6/1kV CVV-I/C AMS : PVC insulated, Aluminum mylar tape individual & collective shielded and PVC sheathed control cable

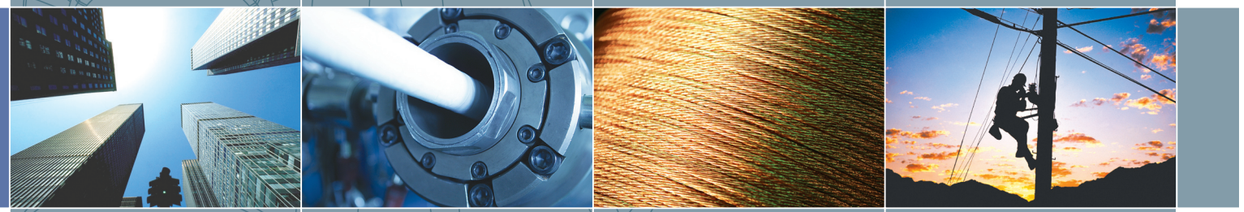
0.6/1kV TFR-CVV-I/C AMS : FR-PVC insulated, Aluminum mylar tape individual & collective shielded and FR-PVC sheathed control cable in tray use

KS C IEC 60502-1
JSC standard

No. of Pair / Triad	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
	Nominal Sectional Area	No. of Wire / Wire Diameter	Approx. Outer Diameter						
	mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
Pair									
1 P	1.5	7 / 0.53	1.59	0.8	1.8	11.5	12.1	3.5	145
2 P	1.5	7 / 0.53	1.59	0.8	1.8	16.5	12.1	3.5	265
3 P	1.5	7 / 0.53	1.59	0.8	1.8	18.5	12.1	3.5	351
4 P	1.5	7 / 0.53	1.59	0.8	1.8	20.5	12.1	3.5	426
5 P	1.5	7 / 0.53	1.59	0.8	1.8	22.5	12.1	3.5	502
10 P	1.5	7 / 0.53	1.59	0.8	1.9	28.4	12.1	3.5	899
20 P	1.5	7 / 0.53	1.59	0.8	2.3	39.6	12.1	3.5	1,952
1 P	2.5	7 / 0.85	2.55	0.8	1.8	12.5	7.41	3.5	179
2 P	2.5	7 / 0.85	2.55	0.8	1.8	17.2	7.41	3.5	325
3 P	2.5	7 / 0.85	2.55	0.8	1.8	20.5	7.41	3.5	436
4 P	2.5	7 / 0.85	2.55	0.8	1.8	22.4	7.41	3.5	530
5 P	2.5	7 / 0.85	2.55	0.8	1.8	24.3	7.41	3.5	635
10 P	2.5	7 / 0.85	2.55	0.8	1.9	31.3	7.41	3.5	1,150
20 P	2.5	7 / 0.85	2.55	0.8	2.4	43.5	7.41	3.5	2,158
Triad									
1 T	1.5	7 / 0.53	1.59	0.8	1.8	12.0	12.1	3.5	172
2 T	1.5	7 / 0.53	1.59	0.8	1.8	19.5	12.1	3.5	362
3 T	1.5	7 / 0.53	1.59	0.8	1.8	20.5	12.1	3.5	448
4 T	1.5	7 / 0.53	1.59	0.8	1.8	22.5	12.1	3.5	553
5 T	1.5	7 / 0.53	1.59	0.8	1.8	24.5	12.1	3.5	662
10 T	1.5	7 / 0.53	1.59	0.8	2.0	34.5	12.1	3.5	1,232
1 T	2.5	7 / 0.85	2.55	0.8	1.8	12.8	7.41	3.5	222
2 T	2.5	7 / 0.85	2.55	0.8	1.8	20.5	7.41	3.5	428
3 T	2.5	7 / 0.85	2.55	0.8	1.8	21.5	7.41	3.5	550
4 T	2.5	7 / 0.85	2.55	0.8	1.8	23.2	7.41	3.5	675
5 T	2.5	7 / 0.85	2.55	0.8	1.8	25.6	7.41	3.5	826
10 T	2.5	7 / 0.85	2.55	0.8	2.1	35.6	7.41	3.5	1,578

Wire & Cable

One-stop Total Solution



Fire Proof Cables

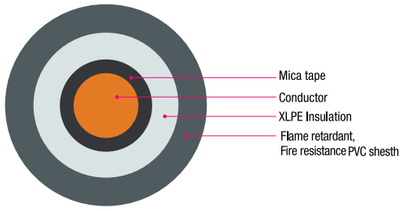
››› Fire Proof Cables

- 0.6/1kV TFR-8 : XLPE insulated FR-PVC sheathed flame retardant & fire resistance cable in tray use
- 0.6/1kV NFR-8 : XLPE insulated and halogen free polyolefin sheathed flame retardant & fire resistance cable
- 0.6/1kV TFR-8 : XLPE insulated FR-PVC sheathed flame retardant & fire resistance cable in tray use
- 0.6/1kV NFR-8 : XLPE insulated and halogen free polyolefin sheathed flame retardant & fire resistance cable
- 0.6/1kV TFR-3 : XLPE insulated FR-PVC sheathed flame retardant & heat resistance cable in tray use
- 0.6/1kV NFR-3 : XLPE insulated and halogen free polyolefin sheathed flame retardant & heat resistance cable
- 0.6/1kV TFR-3 : XLPE insulated FR-PVC sheathed flame retardant & heat resistance cable in tray use
- 0.6/1kV NFR-3 : XLPE insulated and halogen free polyolefin sheathed flame retardant & heat resistance cable

JS Cable

Fire Proof Cables

0.6/1kV TFR-8



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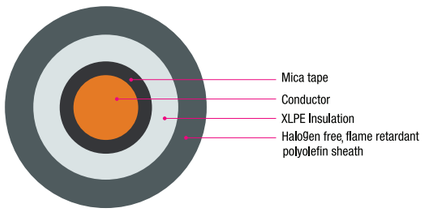


0.6/1kV TFR-8 : XLPE insulated FR-PVC sheathed flame retardant & fire resistance cable in tray use

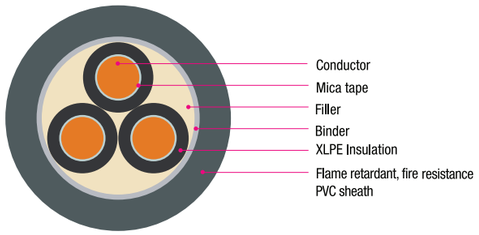
0.6/1kV NFR-8 : XLPE insulated and halogen free polyolefin sheathed flame retardant & fire resistance cable

KS C IEC 60502-1, JSC standard

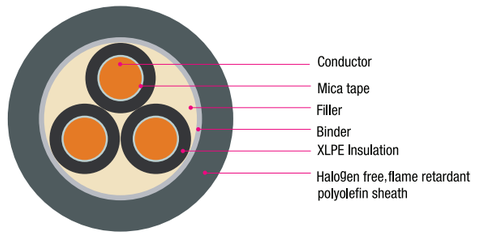
Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
Single Core								
1.5	7 / 0.53	1.59	0.7	1.4	7.17	12.1	3.5	45
2.5	7 / 0.67	2.01	0.7	1.4	7.59	7.41	3.5	48
4	7 / 0.85	2.55	0.7	1.4	8.13	4.61	3.5	53
6	7 / 1.04	3.12	0.7	1.4	8.70	3.08	3.5	58
10	7 / 1.35	4.05	0.7	1.4	9.63	1.83	3.5	66
16	C.C	4.7	0.7	1.4	10.38	1.15	3.5	73
25	C.C	5.9	0.9	1.4	12.08	0.727	3.5	92
35	C.C	6.9	0.9	1.4	13.18	0.524	3.5	102
50	C.C	8.1	1.0	1.4	14.48	0.387	3.5	117
70	C.C	9.8	1.1	1.5	16.68	0.268	3.5	148
95	C.C	11.4	1.1	1.6	18.68	0.193	3.5	176
120	C.C	12.9	1.2	1.6	20.28	0.153	3.5	198
150	C.C	14.4	1.4	1.7	22.48	0.124	3.5	240
185	C.C	15.9	1.6	1.7	24.43	0.0991	3.5	274
240	C.C	18.3	1.7	1.8	27.33	0.0754	3.5	328
300	C.C	20.5	1.8	1.9	29.78	0.0601	3.5	379
400	C.C	23.2	2.0	2.0	33.08	0.0470	3.5	453
500	C.C	26.4	2.2	2.2	37.28	0.0366	3.5	563
630	C.C	30.2	2.4	2.3	41.68	0.0283	3.5	673
2 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	13.00	12.1	3.5	181
2.5	7 / 0.67	2.01	0.7	1.8	13.85	7.41	3.5	213
4	7 / 0.85	2.55	0.7	1.8	14.95	4.61	3.5	261
6	7 / 1.04	3.12	0.7	1.8	16.05	3.08	3.5	318
10	7 / 1.35	4.05	0.7	1.8	17.95	1.83	3.5	429
16	C.C	4.7	0.7	1.8	19.45	1.15	3.5	574
25	C.C	5.9	0.9	1.8	22.85	0.727	3.5	820
35	C.C	6.9	0.9	1.8	25.05	0.524	3.5	1,047
50	C.C	8.1	1.0	1.8	27.65	0.387	3.5	1,344
70	C.C	9.8	1.1	2.0	32.05	0.268	3.5	1,863
95	C.C	11.4	1.1	2.1	35.85	0.193	3.5	2,455
120	C.C	12.9	1.2	2.2	39.25	0.153	3.5	3,053
150	C.C	14.4	1.4	2.3	43.45	0.124	3.5	3,694
185	C.C	15.9	1.6	2.5	47.75	0.0991	3.5	4,548
240	C.C	18.3	1.7	2.7	53.55	0.0754	3.5	5,902
300	C.C	20.5	1.8	2.8	58.25	0.0601	3.5	7,259

* C.C : Circular compacted stranded conductor

0.6/1kV TFR-8



0.6/1kV NFR-8



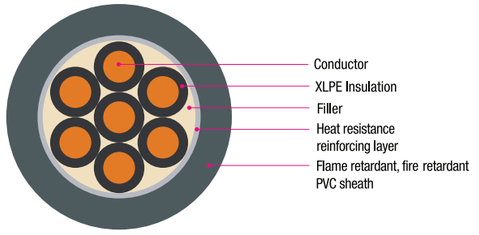
0.6/1kV TFR-8 : XLPE insulated FR-PVC sheathed flame retardant & fire resistance cable in tray use
0.6/1kV NFR-8 : XLPE insulated and halogen free polyolefin sheathed flame retardant & fire resistance cable

KS C IEC 60502-1, JSC standard

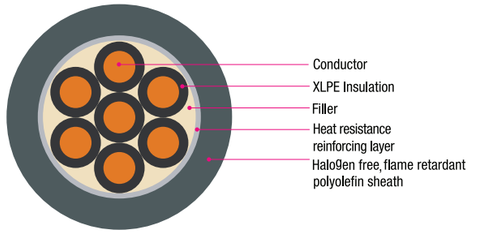
Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
3 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	13.65	12.1	3.5	211
2.5	7 / 0.67	2.01	0.7	1.8	14.55	7.41	3.5	253
4	7 / 0.85	2.55	0.7	1.8	15.70	4.61	3.5	316
6	7 / 1.04	3.12	0.7	1.8	16.90	3.08	3.5	393
10	7 / 1.35	4.05	0.7	1.8	18.95	1.83	3.5	544
16	C.C	4.7	0.7	1.8	20.55	1.15	3.5	748
25	C.C	5.9	0.9	1.8	24.20	0.727	3.5	1,087
35	C.C	6.9	0.9	1.8	26.60	0.524	3.5	1,405
50	C.C	8.1	1.0	1.9	29.60	0.387	3.5	1,837
70	C.C	9.8	1.1	2.0	34.10	0.268	3.5	2,543
95	C.C	11.4	1.1	2.2	38.35	0.193	3.5	3,395
120	C.C	12.9	1.2	2.3	42.00	0.153	3.5	4,240
150	C.C	14.4	1.4	2.4	46.55	0.124	3.5	5,137
185	C.C	15.9	1.6	2.6	51.15	0.0991	3.5	6,337
240	C.C	18.3	1.7	2.8	57.35	0.0754	3.5	8,251
300	C.C	20.5	1.8	3.0	62.60	0.0601	3.5	10,218
4 Cores								
1.5	7 / 0.53	1.59	0.7	1.8	14.65	12.1	3.5	247
2.5	7 / 0.67	2.01	0.7	1.8	15.65	7.41	3.5	300
4	7 / 0.85	2.55	0.7	1.8	16.95	4.61	3.5	381
6	7 / 1.04	3.12	0.7	1.8	18.35	3.08	3.5	481
10	7 / 1.35	4.05	0.7	1.8	20.60	1.83	3.5	675
16	C.C	4.7	0.7	1.8	22.40	1.15	3.5	942
25	C.C	5.9	0.9	1.8	26.50	0.727	3.5	1,381
35	C.C	6.9	0.9	1.9	29.25	0.524	3.5	1,809
50	C.C	8.1	1.0	2.0	32.70	0.387	3.5	2,373
70	C.C	9.8	1.1	2.2	37.95	0.268	3.5	3,314
95	C.C	11.4	1.1	2.3	42.45	0.193	3.5	4,409
120	C.C	12.9	1.2	2.4	46.55	0.153	3.5	5,517
150	C.C	14.4	1.4	2.6	51.75	0.124	3.5	6,708
185	C.C	15.9	1.6	2.8	56.85	0.0991	3.5	8,277
240	C.C	18.3	1.7	3.0	63.80	0.0754	3.5	10,790
300	C.C	20.5	1.8	3.2	69.60	0.0601	3.5	13,371

* C.C : Circular compacted stranded conductor

0.6/1kV TFR-3



0.6/1kV NFR-3

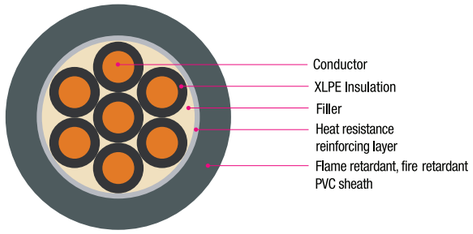


0.6/1kV TFR-3 : XLPE insulated FR-PVC sheathed flame retardant & heat resistance cable in tray use
0.6/1kV NFR-3 : XLPE insulated and halogen freepolyolefin sheathed flame retardant & heat resistance cable

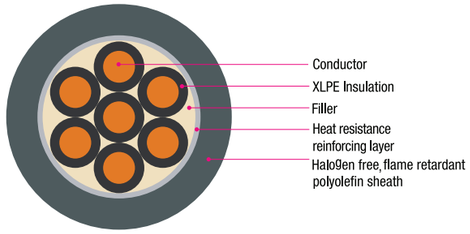
KS C IEC 60502-1, JSC standard

Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm²	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
Solid (Class 1)								
2	1.5	1 / 1.38	1.38	0.7	1.8	11.0	12.1	3.5	162
	2.5	1 / 1.78	1.78	0.7	1.8	11.5	7.41	3.5	194
	4	1 / 2.25	2.25	0.7	1.8	12.5	4.61	3.5	238
3	1.5	1 / 1.38	1.38	0.7	1.8	11.5	12.1	3.5	185
	2.5	1 / 1.78	1.78	0.7	1.8	12.0	7.41	3.5	227
	4	1 / 2.25	2.25	0.7	1.8	13.0	4.61	3.5	286
4	1.5	1 / 1.38	1.38	0.7	1.8	12.0	12.1	3.5	213
	2.5	1 / 1.78	1.78	0.7	1.8	13.0	7.41	3.5	268
	4	1 / 2.25	2.25	0.7	1.8	14.0	4.61	3.5	343
5	1.5	1 / 1.38	1.38	0.7	1.8	13.5	12.1	3.5	244
	2.5	1 / 1.78	1.78	0.7	1.8	14.0	7.41	3.5	311
	4	1 / 2.25	2.25	0.7	1.8	15.0	4.61	3.5	403
6	1.5	1 / 1.38	1.38	0.7	1.8	13.5	12.1	3.5	276
	2.5	1 / 1.78	1.78	0.7	1.8	15.0	7.41	3.5	354
	4	1 / 2.25	2.25	0.7	1.8	16.0	4.61	3.5	464
7	1.5	1 / 1.38	1.38	0.7	1.8	13.5	12.1	3.5	291
	2.5	1 / 1.78	1.78	0.7	1.8	15.0	7.41	3.5	378
	4	1 / 2.25	2.25	0.7	1.8	16.0	4.61	3.5	500
8	1.5	1 / 1.38	1.38	0.7	1.8	14.5	12.1	3.5	325
	2.5	1 / 1.78	1.78	0.7	1.8	16.0	7.41	3.5	423
	4	1 / 2.25	2.25	0.7	1.8	17.5	4.61	3.5	563
10	1.5	1 / 1.38	1.38	0.7	1.8	16.5	12.1	3.5	398
	2.5	1 / 1.78	1.78	0.7	1.8	18.0	7.41	3.5	524
	4	1 / 2.25	2.25	0.7	1.8	20.0	4.61	3.5	701
12	1.5	1 / 1.38	1.38	0.7	1.8	17.0	12.1	3.5	438
	2.5	1 / 1.78	1.78	0.7	1.8	18.5	7.41	3.5	583
	4	1 / 2.25	2.25	0.7	1.8	21.0	4.61	3.5	789
15	1.5	1 / 1.38	1.38	0.7	1.8	18.0	12.1	3.5	528
	2.5	1 / 1.78	1.78	0.7	1.8	20.0	7.41	3.5	656
	4	1 / 2.25	2.25	0.7	1.8	22.0	4.61	3.5	939
20	1.5	1 / 1.38	1.38	0.7	1.8	20.0	12.1	3.5	700
	2.5	1 / 1.78	1.78	0.7	1.8	22.0	7.41	3.5	858
	4	1 / 2.25	2.25	0.7	1.8	25.0	4.61	3.5	1,188
30	1.5	1 / 1.38	1.38	0.7	1.8	24.0	12.1	3.5	955
	2.5	1 / 1.78	1.78	0.7	1.8	26.0	7.41	3.5	1,211
	4	1 / 2.25	2.25	0.7	1.8	29.0	4.61	3.5	1,698

0.6/1kV TFR-3



0.6/1kV NFR-3



0.6/1kV TFR-3 : XLPE insulated FR-PVC sheathed flame retardant & heat resistance cable in tray use
0.6/1kV NFR-3 : XLPE insulated and halogen free polyolefin sheathed flame retardant & heat resistance cable

KS C IEC 60502-1, JSC standard

Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Resistance of Conductor at 20℃	Test Voltage	Approx. Weight
Nominal Sectional Area	No. of Wire/ Wire Diameter	Approx. Outer Diameter						
mm^2	No./mm	mm	mm	mm	mm	Ω/km	kV	kg/km
Strand (Class 2)								
2	1.5	7 / 0.53	1.59	0.7	1.8	11.9	12.1	3.5	170
	2.5	7 / 0.67	2.01	0.7	1.8	12.8	7.41	3.5	202
	4	7 / 8.85	2.55	0.7	1.8	13.9	4.61	3.5	249
3	1.5	7 / 0.53	1.59	0.7	1.8	12.4	12.1	3.5	195
	2.5	7 / 0.67	2.01	0.7	1.8	13.4	7.41	3.5	236
	4	7 / 8.85	2.55	0.7	1.8	14.5	4.61	3.5	299
4	1.5	7 / 0.53	1.59	0.7	1.8	13.3	12.1	3.5	225
	2.5	7 / 0.67	2.01	0.7	1.8	14.3	7.41	3.5	278
	4	7 / 8.85	2.55	0.7	1.8	15.6	4.61	3.5	357
5	1.5	7 / 0.53	1.59	0.7	1.8	14.1	12.1	3.5	257
	2.5	7 / 0.67	2.01	0.7	1.8	15.3	7.41	3.5	322
	4	7 / 8.85	2.55	0.7	1.8	16.8	4.61	3.5	419
6	1.5	7 / 0.53	1.59	0.7	1.8	15.1	12.1	3.5	292
	2.5	7 / 0.67	2.01	0.7	1.8	16.4	7.41	3.5	368
	4	7 / 8.85	2.55	0.7	1.8	18.0	4.61	3.5	482
7	1.5	7 / 0.53	1.59	0.7	1.8	16.1	12.1	3.5	307
	2.5	7 / 0.67	2.01	0.7	1.8	16.4	7.41	3.5	391
	4	7 / 8.85	2.55	0.7	1.8	18.0	4.61	3.5	519
8	1.5	7 / 0.53	1.59	0.7	1.8	16.1	12.1	3.5	343
	2.5	7 / 0.67	2.01	0.7	1.8	17.4	7.41	3.5	438
	4	7 / 8.85	2.55	0.7	1.8	19.3	4.61	3.5	585
10	1.5	7 / 0.53	1.59	0.7	1.8	18.3	12.1	3.5	422
	2.5	7 / 0.67	2.01	0.7	1.8	19.9	7.41	3.5	543
	4	7 / 8.85	2.55	0.7	1.8	22.1	4.61	3.5	729
12	1.5	7 / 0.53	1.59	0.7	1.8	18.7	12.1	3.5	463
	2.5	7 / 0.67	2.01	0.7	1.8	20.4	7.41	3.5	602
	4	7 / 8.85	2.55	0.7	1.8	22.8	4.61	3.5	819
15	1.5	7 / 0.53	1.59	0.7	1.8	20.0	12.1	3.5	539
	2.5	7 / 0.67	2.01	0.7	1.8	21.9	7.41	3.5	709
	4	7 / 8.85	2.55	0.7	1.8	24.4	4.61	3.5	972
20	1.5	7 / 0.53	1.59	0.7	1.8	21.9	12.1	3.5	664
	2.5	7 / 0.67	2.01	0.7	1.8	24.2	7.41	3.5	885
	4	7 / 8.85	2.55	0.7	1.8	27.0	4.61	3.5	1,228
30	1.5	7 / 0.53	1.59	0.7	1.8	25.9	12.1	3.5	922
	2.5	7 / 0.67	2.01	0.7	1.8	28.6	7.41	3.5	1,248
	4	7 / 8.85	2.55	0.7	1.8	32.1	4.61	3.5	1,753

Wire & Cable
One-stop Total Solution

Elevators Cables

» Traveling Cables for Elevators

- 300V EVVF-L : 300V PVC Insulated & Sheathed flat type cable for elevators (without reinforcing wire)
- 300V EVVF-H : 300V PVC Insulated & Sheathed flat type cable for elevators (with reinforcing wire)
- 600V EVVF-L : 600V PVC Insulated & Sheathed flat type cable for elevators (without reinforcing wire)
- 600V EVVF-H : 600V PVC Insulated & Sheathed flat type cable for elevators (with reinforcing wire)
- 300V EVVF-L : 300V PVC Insulated & Sheathed flat type cable for elevators (without reinforcing wire)
- 600V EVVF-H, 600V EVVF-L : 600V PVC Insulated & Sheathed flat type cable for elevators
- 600V EVVF-H, 600V EVVF-L : 600V PVC Insulated & Sheathed flat type cable for elevators
- 600V EVVF-H, 600V EVVF-L : 600V PVC Insulated & Sheathed flat type cable for elevators
- 300V EVVF-L : 300V PVC Insulated & Sheathed flat type cable for elevators (without reinforcing wire)

» Fixed Cable for Elevators

- 300V EVV(E) Cable

JS Cable

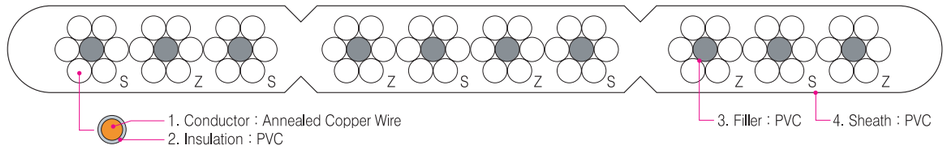
Traveling Cables for Elevators

300V EVVF-L

300V PVC Insulated & Sheathed flat type cable for elevators (without reinforcing wire)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter								
	mm²	No./mm	mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
30(5 x 6)	0.75	30/0.18	1.1	0.5	1.3	9.0 x 43.0	1,000	20	25.6	610	500
40(5 x 8)	0.75	30/0.18	1.1	0.5	1.3	9.0 x 56.0	1,000	20	25.6	840	500
60(6 x 10)	0.75	30/0.18	1.1	0.5	1.4	9.2 x 73.0	1,500	20	25.6	1,145	500

Construction

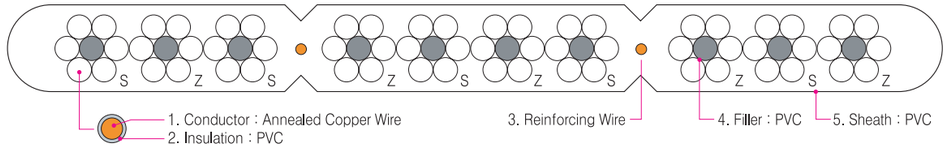


300V EVVF-H

300V PVC Insulated & Sheathed flat type cable for elevators (with reinforcing wire)

No. of Cores	Conductor			Thickness of Insulation	Reinforcing Wire		Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter		No. of Cores	Diameter							
	mm²	No./mm	mm	mm	mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
30(5 x 6)	0.75	30/0.18	1.1	0.5	2	2	1.3	9.0 x 46.0	1,000	20	25.6	660	500
40(5 x 8)	0.75	30/0.18	1.1	0.5	2	2	1.3	9.0 x 61.0	1,000	20	25.6	940	500
60(6 x 10)	0.75	30/0.18	1.1	0.5	2	2	1.4	9.2 x 83.0	1,500	20	25.6	1,294	500

Construction



600V EVVF-L

600V PVC Insulated & Sheathed flat type cable for elevators (without reinforcing wire)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter								
	mm²	No./mm	mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
30(5 x 6)	0.75	30/0.18	1.1	0.8	1.3	10.5 x 53.0	1,500	20	25.6	780	500
40(5 x 8)	0.75	30/0.18	1.1	0.8	1.3	10.5 x 68.0	1,500	20	25.6	1,015	500

600V EVVF-H

600V PVC Insulated & Sheathed flat type cable for elevators (with reinforcing wire)

No. of Cores	Conductor			Thickness of Insulation	Reinforcing Wire		Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter		No. of Cores	Diameter							
	mm²	No./mm	mm		mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
30(5 x 6)	0.75	30/0.18	1.1	0.8	2	2	1.3	10.5 x 58	1,500	20	25.6	885	500
40(5 x 8)	0.75	30/0.18	1.1	0.8	2	2	1.3	10.5 x 72	1,500	20	25.6	1,150	500

300V EVVF-L

300V PVC Insulated & Sheathed flat type cable for elevators (without reinforcing wire)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter								
	mm²	No./mm	mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
24C	0.75	30/0.18	1.1	0.6	1.0	4.6 x 66.0	1,000	20	25.6	515	500
20C	0.75	30/0.18	1.1	0.6			1,000	20	25.6		
24C					1.1	5.8 x 62.5				600	500
2P	0.5	20/0.18	0.93	0.38			500	100	39.0		

600V EVVF-H, 600V EVVF-L

600V PVC Insulated & Sheathed flat type cable for elevators

No. of Cores	Conductor			Thickness of Insulation	Reinforcing Wire		Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter		No. of Cores	Diameter							
	mm²	No./mm	mm	mm	mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
42C	0.75	30/0.18	1.1	0.5					1,000	20	25.6		
50C 6C	2.0	30/0.26	1.8	0.8	2	2.0	1.4	11.0x77.4	1,500	50	9.98	1,351	50
1P	0.5	30/0.18	0.93	0.4					500	100	39.0		
42C	0.75	30/0.18	1.1	0.5					1,000	20	25.6		
50C 6C	2.0	30/0.26	1.8	0.8	-	-	1.4	11.0x70.4	1,500	50	9.98	1,107	500
1P	0.5	30/0.18	0.93	0.4					500	100	39.0		

600V EVVF-H, 600V EVVF-L

600V PVC Insulated & Sheathed flat type cable for elevators

No. of Cores	Conductor			Thickness of Insulation	Reinforcing Wire		Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter		No. of Cores	Diameter							
	mm²	No./mm	mm	mm	mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
28C	0.75	30/0.18	1.1	0.8					1,000	20	25.6		
35C 3C	2.0	30/0.26	1.8	0.8	2	2.0	1.4	11.0x61.1	1,500	50	9.98	1,294	500
2P	0.5	30/0.18	0.93	0.4					500	100	39.0		
28C	0.75	30/0.18	1.1	0.8					1,000	20	25.6		
35C 3C	2.0	30/0.26	1.8	0.8	-	-	1.4	11.0x54.1	1,500	50	9.98	1,011	500
2P	0.5	30/0.18	0.93	0.4					500	100	39.0		

600V EVVF-H, 600V EVVF-L

600V PVC Insulated & Sheathed flat type cable for elevators

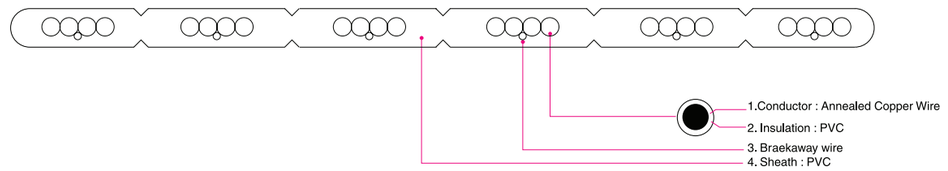
No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Reinforcing Wire		Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter			No. of Cores	Diameter						
	mm²	No./mm	mm	mm	mm	No.	mm	mm	V/1min	㏁km	Ω/km	mm	mm
36C	0.75	30/0.18	1.1	0.5					1,000	20	25.6		
44C 6C	2	37/0.26	1.8	0.8	1.4	2	2.0	73.4x11.0	1,500	50	9.98	1,351	500
1P	0.5	20/0.18	0.9	0.4					500	100	39.0		
36C	0.75	30/0.18	1.1	0.5					1,000	20	25.6		
44C 6C	2	37/0.26	1.8	0.8	1.4	-	-	66.4x11.0	1,500	50	9.98	1,032	500
1P	0.5	20/0.18	0.9	0.4					500	100	39.0		

300V EVVF-L

300V PVC Insulated & Sheathed flat type cable for elevators(with reinforcing wire)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter								
	mm²	No./mm	mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
24	0.75	30/0.18	1.1	0.6	1.00	4.6×66.0	56.6	20	1,000	515	500

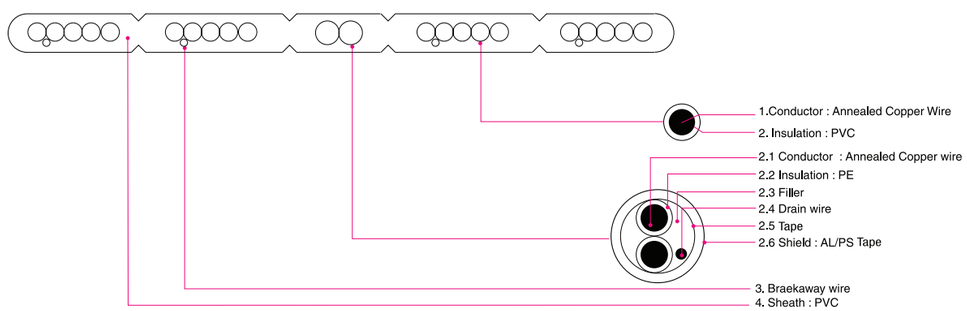
Construction



300V PVC Insulated & Sheathed flat type cable for elevators(with reinforcing wire)

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Test Voltage	Min. Insulation Resistance at 20℃	Max. Conductor Resistance at 20℃	Approx. Weight	Standard Length
	Nominal Sectional Area	Compo-sition	Outer Diameter								
	mm²	No./mm	mm	mm	mm	mm	V	㏁km	Ω/km	kg/km	m
24C	0.75	30/0.18	1.10	0.60	1.00	5.8×62.5	1,000	20	26.5	600	500
2P	0.5	20/0.18	0.93	0.38			500	100	39.0		

Construction



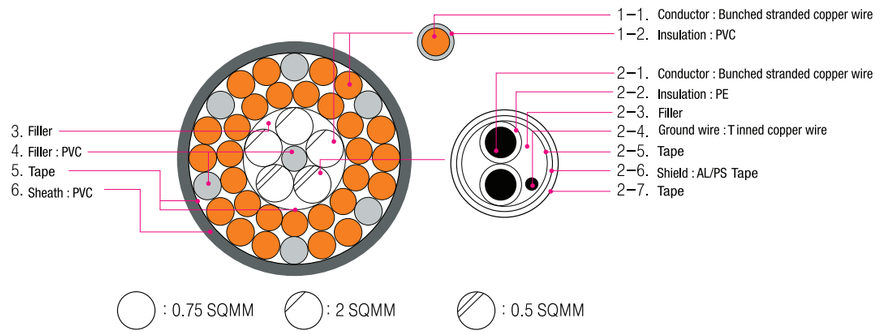
Fixed Cable for Elevators

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Conductor Resistance at 20℃	Min. Insulation Resistance at 20℃	Test Voltage	Approx. Weight
	Nominal Sectional Area	Composition	Outer Diameter							
	mm^2	No./mm	mm	mm	mm	mm	Ω/km	MΩ/km	V	kg/km
42C	0.75	30/0.18	1.1	0.5			25.6	20	1,000	
48C 6C	2.0	37/0.26	1.8	0.8	1.8	26.0	9.98	50	1,500	912
1P	0.5	20/0.18	0.93	0.4			39.0	100	500	

Construction

No. of Cores	Conductor			Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Conductor Resistance at 20℃	Min. Insulation Resistance at 20℃	Test Voltage	Approx. Weight
	Nominal Sectional Area	Composition	Outer Diameter							
	mm^2	No./mm	mm	mm	mm	mm	Ω/km	MΩ/km	V	kg/km
28C	0.75	30/0.18	1.1	0.8			25.6	20	1,000	
35C 3C	2.0	37/0.26	1.8	0.8	1.6	24.1	9.98	50	1,500	786
2P	0.5	20/0.18	0.93	0.4			39.0	100	500	

Construction



300V EVV(E) Cables

No. of Cores	Composition of Conductor	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Max. Conductor Resistance at 20℃	Min. Insulation Resistance at 20℃	Test Voltage	Approx. Weight
	No./mm	mm	mm	mm	MΩ/km	Ω/km	V	kg/km
2	30/0.18	0.4	1.1	6.2	25.6	20	1,000	40
3	30/0.18	0.4	1.1	6.7	25.6	20	1,000	48
4	30/0.18	0.4	1.1	7.5	25.6	20	1,000	59
7	30/0.18	0.4	1.1	8.8	25.6	20	1,000	80
8	30/0.18	0.4	1.1	9.4	25.6	20	1,000	92
9	30/0.18	0.4	1.1	10.0	25.6	20	1,000	104
13	30/0.18	0.4	1.2	11.6	25.6	20	1,000	138
19	30/0.18	0.4	1.3	13.5	25.6	20	1,000	185
21	30/0.18	0.4	1.3	14.2	25.6	20	1,000	202
25	30/0.18	0.4	1.4	15.9	25.6	20	1,000	250
31	30/0.18	0.4	1.5	17.0	25.6	20	1,000	290
37	30/0.18	0.4	1.5	18.0	25.6	20	1,000	331

Wire & Cable
One-stop Total Solution

Telecommunication Cables

››› Telecommunication Cables

- Foamed 3 layers shield low loss coaxial cable for image reception
- High-frequency Coaxial Cables(ECX)
- Polyethylene Insulated AL tape shield pair cable for telephone

JS Cable

Telecommunication Cables

Foamed 3 layers shield low loss coaxial cable for image reception

Material

- Inner conductor : copper wire
- Outer Conductor : AL mylar tape + Tinned copper wire braid
- Insulation : Foamed Polyethylene
- Sheath : PVC

Characteristics

- Wide frequency range(5.75MHz ~ 750MHz)
- Excellent characteristic of shield
- Low loss

Application

- For transmitting data, TV and computer signals in wide band and multifunctional common network.

Construction

Symbol	Inner Conductor Diameter	Insulation		Outer Conductor Material			Sheath		Overall Diameter	Weight	Standard Length
	mm	Material	Diameter mm	First	Second	Third	Material	Diameter mm	mm	kg/km	m
5C-FBT	1.05	Foamed	5					7.4	7.4 ±0.5	55	200
7C-FBT	1.5	PE	7.3					10	10.0 ±0.5	100	200
5C-HFBT	1.2		5	AL	Tinned	AL		7.4	7.4 ±0.5	56	200
7C-HFBT	1.8	Highly	7.3	mylar	copper	mylar	PVC	10	10.0 ±0.5	102	200
10C-HFBT	2.4	Foamed	9.4	tape	wire	tape		12.3	12.3 ±0.5	144	200
RG-6/U/T (5C-HFBT)	1.02		4.57					6.95	6.95 ±0.5	42	200

Characteristics

Symbol	Insulation Resistance	Test voltage	Electrostatic capacity	Characteristic Impedance	Standard Attenuation dB/km							Standing-wave ratio
	MΩ×km	V	nF/km	Ω	10 MHz	50 MHz	150 MHz	250 MHz	350 MHz	450 MHz	750 MHz	
5C-FBT					23.8	47.2	77.2	98.9	117.1	137	185	
7C-FBT					15.7	30.7	55.1	71	86.2	95.9	124.3	
5C-HFBT					23.8	47.2	77.2	98.9	117.1	137	185	
7C-HFBT	1000	AC 1000	52±3	75	15.7	30.7	55.1	71	86.2	95.9	124.3	1.2 ↓
10C-HFBT					12	25.4	42.2	54	65.7	73.4	96.2	
RG-6/U/T (5C-HFBT)					23.8	47.2	77.2	98.9	117.1	137	185	

High-frequency Coaxial Cables(ECX)

Type	Inner Conductor		Insulation		Outer Conductor				Sheath thickness	Overall diameter	Conductor resistance (20℃)	Test voltage	Elect-rostatic capacity (1㎑)	Standrd Atten-uation (10㎒)	Approx. Weight
					Braid										
	No. of wire/ Wire diameter	Dia-meter	Thick-ness	Outer diameter	Wire diameter	No. of wire per carrier	No. of carrier	Outer diameter							
	mm	mm	mm	mm	mm			mm	mm	mm	Ω/km	V	nF/km	dB/km	kg/km
[75Ω type]															
3C-2V	1/0.50	0.5	1.3	3.1	0.14	5	24	3.8	0.8	5.4	91.4	1000	67±3	42	42
5C-2V	1/0.80	0.8	2.05	4.9	0.14	7	24	5.6	0.9	7.4	35.9	1000	67±3	27	74
7C-2V	7/0.40	1.2	3.05	7.3	0.18	8	24	8.2	1.1	10.4	20.7	1000	67±3	22	140
10C-2V	7/0.50	1.5	3.95	9.4	0.2	10	24	10.4	1.3	13	13.1	1000	67±3	18	220

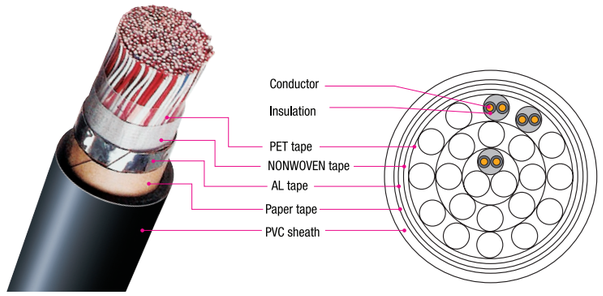
* Symbol (ex: 10C-2V) 10 : Put a mark on insulation diameter
2 : Fill-polyethylene type
C : Put a mark on characteristic impedance(C: 75 Ω)
V : PVC sheathed cable

Polyethylene Insulated AL tape shield pair cable for telephone

Application
- Subscriber distribution network in local exchange area

Standard
- KS C 3603

Material
- Insulation - PE / Sheath - PVC



Type of pair

Type of pair in identification

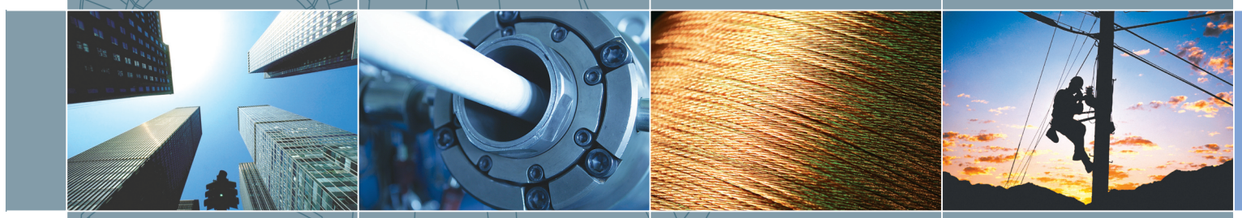
Type of pair	Color	Remark
Pair of Category1	Red-White	White Color : Natural or white color
Pair of Category2	Blue-White	

Electrical Characteristics

Item		Unit	Outer Conductor		
			0.5 mm	0.65 mm	0.9 mm
Conductor Resistance	Standard Value	Ω/km	181	107	55.8
	Max. Value	Ω/km	187	113	58
Insulation Resistance		MΩ-km		10,000 ↑	
Test Voltage		V	500	500	700
Electrostatic Capacity		nF/km		60 ↓	
Attenuation		dB/km	1.47 ↓	1.15 ↓	0.84 ↓

Norminal Diameter(mm)	No. of Pairs(P)	Insulation Thickness(mm)	Sheath Thickness (mm)	Approx. Overall Diameter(mm)	Standard Length(m)
0.5	5	0.3	1.5	10	1,000
	10		1.5	12	1,000
	15		1.5	13	1,000
	20		1.5	14	1,000
	25		1.5	15	1,000
	30		1.5	16	1,000
	50		1.5	20	1,000
	100		1.7	26	1000
	200		2	36	500
0.65	5	0.3	1.5	11	1,000
	10		1.5	13	1,000
	15		1.5	14	1,000
	20		1.5	16	1,000
	25		1.5	17	1,000
	30		1.5	19	1,000
	50		1.6	23	1,000
	100		1.9	30	1,000
	200		2.2	41	500
0.9	5	0.4	1.5	12	1,000
	10		1.5	15	1,000
	15		1.5	18	1,000
	20		1.5	20	1,000
	25		1.6	22	1,000
	30		1.6	24	1,000
	50		1.8	29	1,000
	100		2.2	40	1,000
	200		2.7	56	500

Wire & Cable
One-stop Total Solution



Appendix

» Type & Characteristic of XLPE Insulation Power Cables
» Characteristics of Flame Retardant Cables in tray use
» Current-carrying capacities (Reference standard: KS C IEC 60364-5-523)
» Current-carrying capacities (Reference standard: KS C IEC 60364-5-523)
» Correction factor of current carrying capacity
» Short-Circuit Current (Cooper Conductor)
» Instullation Information

JS Cable

Type & Characteristic of XLPE Insulation Power Cables

0.6/1kV

Type	Composition Material		Application Standard	Main Feature
	Insulation	Sheath		
CV	XLPE	PVC	KS C IEC 60502-1	-
TFR-CV		Flame retardant PVC (FR-PVC)	KS C IEC 60502-1	Flame retardant (VTFT)
HFCO		Halogen free & Flame retardant Polyolefin(LSHF)	KS C IEC 60502-1	Flame retardant (VTFT), Halogen free, Low smoke

6/10kV

Type	Composition Material		Application Standard	Main Feature
	Insulation	Sheath		
CV	XLPE	PVC	KS C IEC 605502-2	-
TFR-CV		Flame retardant PVC (FR-PVC)	KS C IEC 605502-2	Flame retardant (VTFT)
HFCO		Halogen free & Flame retardant Polyolefin(LSHF)	KS C 3341	Flame retardant (VTFT), Halogen free, Low smoke

22.9kV-y

Type	Composition Material		Application Standard	Main Feature
	Insulation	Sheath		
CNCV-W	XLPE	PVC	KEPCO RS-6145-0019	-
TR CNCV-W	TR-XLPE	PVC	KEPCO RS-6145-0027	Tree retardant
FR CNCO-W	XLPE	Halogen free & Flame retardant Polyolefin(LSHF)	KEPCO RS-6145-0019	VTFT, Low smoke, Halogen free
TR CNCE-W	TR-XLPE	PE	KEPCO RS-6145-0034	Tree retardant

Characteristics of Halogen free & Flame retardant Cables

Item	Definition	Characteristics
Flame Retardant	▶ Property Flame retardant · No propagate the fire · Self - extinguishing	▶Vertical Tray Flame Test (VTFT) · IEC 60332-3 Cat. C
Smoke Density	▶Low smoke emission	▶Smoke density : 150Dm ↓ ▶Light transmissivity : 60% ↑
Corrosive Gas	▶Low Acid Gas (Hcl) ▶Low corrosive gas	▶Halogen Acid Gas (Hcl) : 0.5% ↓ ▶pH : 4.3 ↑

Characteristics of Flame Retardant Cables in tray use

Tray Flame Retardant Cables meet IEC-60332-3 (Vertical Tray Flame Test)

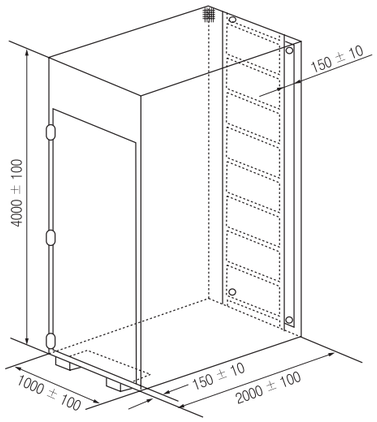
Test Method

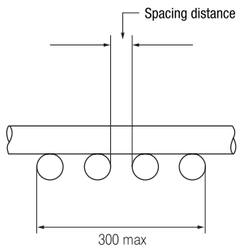
1) Combustion chamber - Length 4m, Width 1m, Deep 2m
2) Length of test sample - 3.5m
3) The pieces shall be attached to the front of the standard ladder in a single layer up to a total maximum width of 300mm.
4) The total number of test pieces in the test sample shall be that number required to provide a nominal total volume of non-metallic material of 1.5 ℓ/m of test sample.
5) Flame : Air 77.7±4.8 ℓ/min, Propane Gas 13.5±0.5 ℓ/min
6) Flame application time : 20min

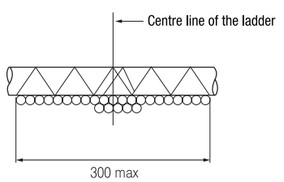
Estimate Method

1) The cable shall not reached a height exceeding 2.5m.
2) After flame test, cable shall be self-extinguished.

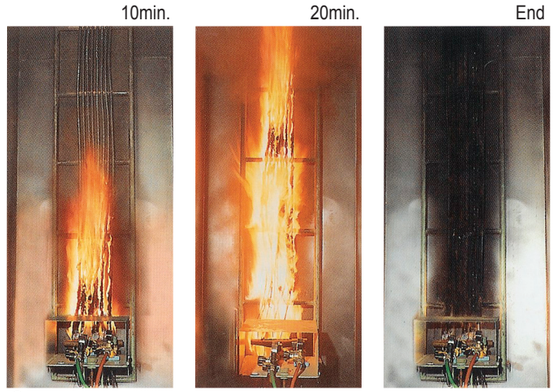
\Test Apparatus



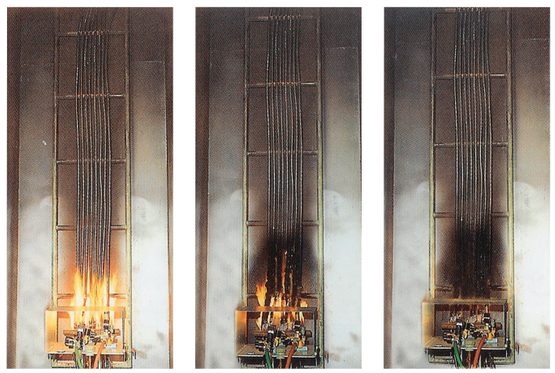




\Test Scene



General



For tray

Current-carrying capacities
(Reference standard : KS C IEC 60364-5-523)

1. XLPE Insulation Cables

- Cable type : CV, CVS, TFR-CV, TFR-CVS, TFR-8, NFR-8, TFR-3, HFCO, HFCCO
- Voltage : 0.6/1kV
- Conductor temperature : 90℃
- Soil thermal resistivity : 2.5K · m/W
- Ambient temperature in air : 30℃
- Ground temperature : 20℃

Norminal Area [㎟]	In air or In single-way ducts						Buried direct in the ground	
	Single-core				Multicore		Multicore	
	Three loaded conductors							
	Trefoil formation	Flat formation (S=D)	Flat formation horizontal (S≥2D)	Flat formation vertical (S≥2D)	Two loaded conductors	Three loaded conductors	Two loaded conductors	Three loaded conductors
Installation Method	Method F	Method F	Method G	Method G	Method E	Method E	Method D	Method D
1.5	-	-	-	-	26	23	26	22
2.5	-	-	-	-	36	36	34	29
4	-	-	-	-	49	49	44	37
6	-	-	-	-	63	63	56	46
10	-	-	-	-	86	86	73	61
16	-	-	-	-	115	115	95	79
25	135	141	182	161	149	149	121	101
35	169	176	226	201	185	185	146	122
50	207	216	275	246	225	225	173	144
70	268	279	353	318	289	289	213	178
95	328	342	430	389	352	352	252	211
120	383	400	500	454	410	410	287	240
150	444	464	577	527	473	473	324	271
185	510	533	661	605	542	542	363	304
240	607	634	781	719	641	641	419	351
300	703	736	902	833	741	741	474	396
400	823	868	1,085	1,008	-	-	-	-
500	946	998	1,253	1,169	-	-	-	-
630	1,088	1,151	1,454	1,362	-	-	-	-

2. XLPE Insulation Cables

- Cable type : CV, TFR-CV, HFCO
- Voltage : 6/10kV
- Conductor temperature : 90℃
- Soil thermal resistivity : 2.5K · m/W
- Ambient temperature in air : 30℃
- Ground temperature : 20℃

Norminal Area [㎟]	In air or In single-way ducts		Buried direct in the ground	
	Single-core	Three-cores	Single-core	Three-cores
	Three calbes in flat formation (S=D)	Single cable	Single cable	Single cable
Installation Method	Method F	Method E	Method D	Method D
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	385
185	555	465	460	435
240	660	550	530	505
300	765	635	600	565
400	900	-	690	-
500	1,045	-	775	-
630	1,220	-	880	-

3. PVC Insulation Cables

- Cable type : CVV, CVVS, CVVSB, CVVAMS, CVV-I/C AMS,
  TFR-CVV, TFR-CVVS, TFR-CVVSB, TFR-CVVAMS, TFR-CVV-I/C AMS
- Voltage : 0.6/1kV
- Conductor temperature : 70℃
- Soil thermal resistivity : 2.5K · m/W
- Ambient temperature in air : 30℃
- Ground temperature : 20℃

Norminal Area [㎟]	In air or In single-way ducts							Buried direct in the ground	
	Single core	Multicore						Multicore	
	Three loaded conductors	Two cores			Three cores			Two cores	Three cores
	Flat formation (S=D)								
Installation Method	Method F	Method A2	Method B2	Method E	Method A2	Method B2	Method E	Method D	Method D
1.5	a-	14	16.5	22	13	15	18.5	22	18
2.5	-	18.5	23	30	17.5	20	25	29	24
4	-	25	30	40	23	27	34	38	31
6	-	32	38	51	29	34	43	47	39
10	-	43	52	70	39	46	60	63	52
16	-	57	69	94	52	62	80	81	67
25	114	75	90	119	68	80	101	104	86
35	143	92	111	148	83	99	126	125	103
50	174	110	133	180	99	118	153	148	122
70	225	139	168	232	125	149	196	183	151
95	275	167	201	282	150	179	238	216	179
120	321	192	232	328	172	206	276	246	203
150	372	219	-	379	196	-	319	278	230
185	427	248	-	434	223	-	364	312	258
240	507	291	-	514	261	-	430	361	297
300	587	334	-	593	298	-	497	408	336
400	689	-	-	-	-	-	-	-	-
500	789	-	-	-	-	-	-	-	-
630	905	-	-	-	-	-	-	-	-

Installation Method

A1 : Insulated conductors in conduit in insulating wall

A2 : Multicore cable in conduit in insulating wall

B1 : Insulated conductors in conduit on wall

B2 : Multicore cable in conduit on wall

C : Multicore cable on a wall

D : Multicore cable in ducts in ground

E : Twin or multicore cable in free air(Clearance to wall not less than 0.3 times cable diameter)

F : Single-core cables in free air touching(Clearance to wall not less than one cable diameter)

4. Heat-resistant PVC Insulation Cable

- Cable type : HIV
- Voltage : 450/750V
- Conductor temperature : 90℃
- Soil thermal resistivity : 2.5K · m/W
- Ambient temperature in air : 30℃
- Ground temperature : 20℃

Norminal Area [㎟]	Two loaded cores	
Installation Method	Method A1	Method B1
1.5	19	23
2.5	26	31
4	35	42
6	45	54
10	61	75
16	81	100
25	106	133
35	131	164
50	158	198
70	200	253
95	241	306
120	278	354
150	318	407
185	362	464
240	424	546
300	486	628

Correction factor of current carrying capacity

Correction factors for ambient air temperatures other than 30℃

Ambient temperature °C	PVC(70°C)	XLPE(90°C)
10	1.22	1.22
15	1.17	1.17
20	1.12	1.12
25	1.06	1.06
30	1.00	1.00
35	0.94	0.94
40	0.87	0.87
45	0.79	0.79
50	0.71	0.71
55	0.61	0.61
60	0.50	0.50
65	-	-
70	-	-
75	-	-
80	-	-
85	-	-
90	-	-
95	-	-

Correction factors for groups of several circuits or of several multicore cables

Arrangement of cables	Number of circuits											
	1	2	3	4	5	6	7	8	9	12	16	20
Embedded or enclosed	1.00	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.45	0.41	0.38
Single layer on walls, floors or on unperforated trays	1.00	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	-	-	-
Single layer on ceiling	0.95	0.81	0.72	0.68	0.66	0.64	0.63	0.62	0.61	-	-	-
Single layer on perforated horizontal trays or on vertical trays	1.00	0.88	0.82	0.77	0.75	0.73	0.73	0.72	0.72	-	-	-
Single layer on cable ladder suppoers or cleats, etc.	1.00	0.87	0.82	0.80	0.80	0.79	0.79	0.78	0.78	-	-	-

Correction factors for soil thermal resistivity, cables laid in ducts in the ground

Thermal resistivity (K·m/W)	1	1.5	2	2.5	3
Correction factor	1.8	1.1	1.05	1	0.96

Correction factors for more than one circuit, cables laid in ducts in the ground

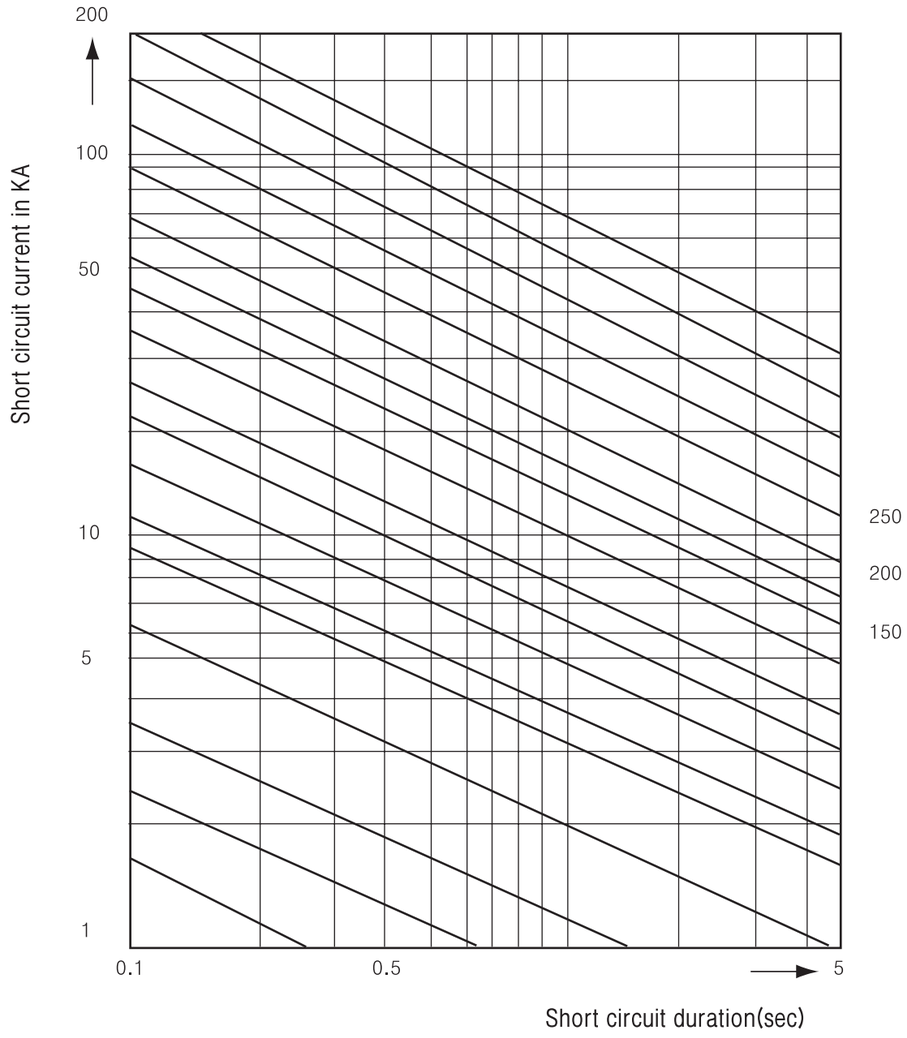
Multicore cables (Number of cables)	Nil (ducts touching)	0.25m	0.5m	1.0m
2	0.85	0.90	0.95	0.95
3	0.75	0.85	0.90	0.95
4	0.70	0.80	0.85	0.90
5	0.65	0.80	0.85	0.90
6	0.60	0.80	0.80	0.90
Number of single-core circuits of two or three cables (Number of cables)	**Nil (ducts touching)**	**0.25m**	**0.5m**	**1.0m**
2	0.80	0.90	0.90	0.95
3	0.70	0.80	0.85	0.90
4	0.65	0.75	0.80	0.90
5	0.60	0.70	0.80	0.90
6	0.60	0.70	0.80	0.90

Correction factors for ambient gorund temperatures other than 20°C

Ground temperature (°C)	PVC (70°C)	XLPE or EPR (90°C)
10	1.10	1.07
15	1.05	1.04
20	1.00	1.00
25	0.95	0.96
30	0.89	0.93
35	0.84	0.89
40	0.77	0.85
45	0.71	0.80
50	0.63	0.76
55	0.55	0.71
60	0.45	0.65
65	-	0.60
70	-	0.53
75	-	0.46
80	-	0.38

Current Carring Capacity in High Temperature

Short-Circuit Current of CV Cable



Max. Allowable Tension

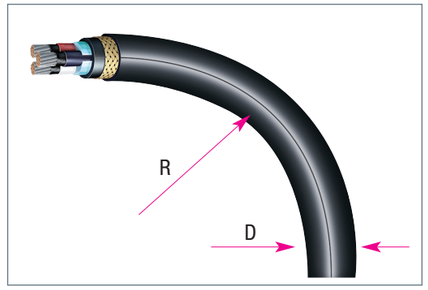
Lying Machine	Material of conductor	Max. Allowable Tension [kg]
Eye Pull ing	Cu	7 ×(No. of cores) ×(Conductor nominal sectional area) kg
	Al	4 ×(No. of cores) ×(Conductor nominal sectional area) kg
Cable Grip	Cu Al	Cable grip is same condition as Eye Pulling Not less than 2000kg

•In case of cable grip, past the end of cable at least, 500mm.

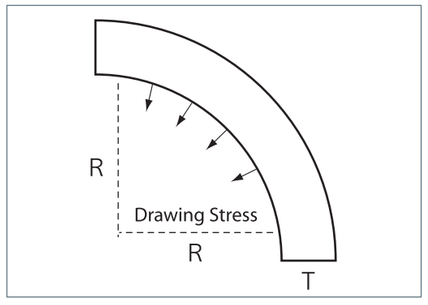
Min. Bending Radius

Cable Type	Single Core		Multi-Core
	Circular Stranded Conductor	Four Split Conductor	
600V Cable	8 D	12 D	6 D
Not less Than 3.5kV Cable	10 D	12 D	8 D
Triplex Cable	-	-	8 D
Wellmantal Armour Cable	10 D	12 D	8 D
Metal Tape Armour Cable	10 D	12 D	8 D
Wire Armour Cable	10 D	12 D	8 D
Lead Cable	10 D	12 D	10 D

•D:Case Outer Diameter, R:Bending radius.



Max. Installation Drawing Stress



Maximum installation drawing stress is 500kg/m at bending position

$$\text{Drawing Stess} = \frac{T}{R}$$

T : Tension (㎏)
R : Bending Radius (m)