kfq Korean Foundation for Quality

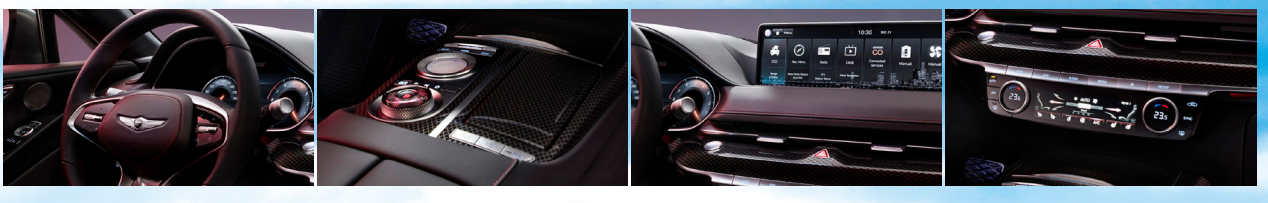
21C Cable New Leader

DAEWON

Automotive Wire & Cable

DAEWON CABLE CO.,LTD.

DAEWON
Automotive Wire & Cable



CONTENTS

INTRODUCTION

Daewon Cable Co.,Ltd. was established in 1964 and has manufactured various kind of cables.
Now Daewon cable is the fastest growing company in its own field in Korea. It is through industrious research and development that Daewon cable has grown so strong. In recent years, the concentrated effort to expand overseas business has brought a steadily advance in products export. As a result, export now accounts for nearly 30% of overall sales volume.

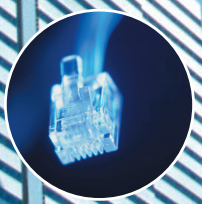
Daewon cable has served domestic clients and abroad as a forerunner in the manufacture of electric wires and cables.

We are proud to point out that Daewon cable has been able to expand factory facilities steadily. This addition will go long way to better serve our global customers in Daewon cable's tradition of quality, punctual delivery, accurate specifications and reliability.

We are hopeful that you will be given a general picture of our buisiness activities and the scope by this catalogue. This catalogue, in particular, deals with Daewon cable's FED power cables and communicaton cables.

However, kindly bear in mind that other cables can be manufactured to your specifications and needs. Please feel free to inquire about our production in general, as well as our made-to other wires.

We will continue to make an effort toward the best quality of wires and cables for all our customers.



AVS

A : Low-tension cables for automobiles
V : Polyvinyl chloride insulated
S : Thin-wall type

STANDARD
JASO D 611 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Lead-free polyvinyl chloride(95℃)

1. AVS

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.5	7/0.32	0.5629	1.0	0.5	2.0	2.1	32.7	1,000	14.6
0.85	11/0.32	0.8846	1.2	0.5	2.2	2.3	20.8	500	19.1
1.25	16/0.32	1.286	1.5	0.5	2.5	2.6	14.3	500	24.4
2	26/0.32	2.091	1.9	0.5	2.9	3.1	8.81	300	33.0
3	41/0.32	3.297	2.4	0.6	3.6	3.8	5.59	300	44.6
5	65/0.32	5.228	3.0	0.7	4.4	4.6	3.94	200	60.1
8	50/0.45	7.952	3.7	0.8	5.3	5.5	2.32	200	78.4

* Maximum allowable current at ambient temperature 40℃

AVSS / AVSSF

A : Low-tension cables for automobiles
V : Polyvinyl chloride insulated
SS : Very thin-wall type
F : Flexible

STANDARD
JASO D 611 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Lead-free polyvinyl chloride(95℃)

1. AVSS

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.22	7/0.20	0.2265	0.6	0.3	1.2	1.3	85.4	2,000	7.4
0.3	7/0.26	0.3717	0.8	0.3	1.4	1.5	50.2	1,500	10.4
0.5	7/0.32	0.5629	1.0	0.3	1.6	1.7	32.7	1,000	13.6
0.85	19/0.24	0.8595	1.2	0.3	1.8	1.9	21.7	1,000	17.6
1.25	19/0.29	1.2549	1.5	0.3	2.1	2.2	14.9	800	22.6
2	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	500	30.8

* Maximum allowable current at ambient temperature 40℃

2. AVSSF

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.3	19/0.16	0.3821	0.8	0.3	1.4	1.5	48.8	1,500	10.4
0.5	19/0.19	0.5387	1.0	0.3	1.6	1.7	34.6	1,000	13.6
0.85	37/0.172	0.9597	1.2	0.3	1.8	1.9	21.7	1,000	17.6
1.25	37/0.21	1.2815	1.5	0.3	2.1	2.2	14.6	800	22.6

* Maximum allowable current at ambient temperature 40℃

AVXF

A : Low-tension cables for automobiles
V : Polyvinyl chloride insulated
X : Cross-linked
F : Flexible

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Cross-linked Lead-free polyvinyl chloride(115℃)

1. AVXF

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.3	12/0.18	0.3054	0.7	0.5	1.8	1.9	61.1	1,500	11.5
0.5	20/0.18	0.5089	1.0	0.5	2.0	2.1	36.7	1,000	15.6
0.75	30/0.18	0.7634	1.1	0.5	2.2	2.3	24.4	700	19.9
0.85	34/0.18	0.8652	1.2	0.5	2.2	2.3	21.6	500	21.3
1.25	50/0.18	1.2723	1.5	0.6	2.7	2.8	14.7	500	27.8
2	79/0.18	2.0103	1.9	0.6	3.0	3.2	9.42	300	37.9
3	119/0.18	3.028	2.3	0.7	3.7	3.9	6.15	300	48.2
5	207/0.18	5.268	3.0	0.8	4.6	4.8	3.94	200	64.8
8	315/0.18	8.016	3.7	0.8	5.3	5.5	2.32	200	88.8
10	399/0.18	10.15	4.2	0.9	6.0	6.2	1.76	200	106
15	588/0.18	14.96	5.0	1.1	7.2	7.5	1.20	1,500	134
20	247/0.32	19.86	6.3	1.1	8.5	8.8	0.92	1,500	161
30	378/0.32	30.40	8.0	1.5	11.0	11.3	0.61	800	208
40	494/0.32	39.73	9.2	1.5	12.2	12.6	0.457	500	247
50	608/0.32	48.90	10	1.6	13.2	13.6	0.371	200	279

* Maximum allowable current at ambient temperature 40℃

AVSSX

A : Low-tension cables for automobiles
V : Polyvinyl chloride insulated
SS : Very thin-wall type
X : Cross-linked

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Cross-linked Lead-free polyvinyl chloride(115℃)

1. AVSSX

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.3	7/0.26	0.3717	0.8	0.3	1.4	1.5	50.2	1,500	11.7
0.5	7/0.32	0.5629	1.0	0.3	1.6	1.7	32.7	1,000	15.4
0.85	19/0.24	0.8595	1.2	0.3	1.8	1.9	21.7	1,000	19.9
1.25	19/0.29	1.2549	1.5	0.3	2.1	2.2	14.9	800	25.6
2	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	500	34.8

* Maximum allowable current at ambient temperature 40℃

AVSSXF

A : Low-tension cables for automobiles
V : Polyvinyl chloride insulated
SS : Very thin-wall type
X : Cross-linked
F : Flexible

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Cross-linked Lead-free polyvinyl chloride(115℃)

1. AVSSXF

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.22	7/0.20	0.2199	0.6	0.3	1.2	1.3	84.8	2,000	8.4
0.3	19/0.16	0.3820	0.8	0.3	1.4	1.5	48.8	1,500	11.9
0.5	19/0.19	0.5387	1.0	0.3	1.6	1.7	34.6	1,000	15.0
0.75	19/0.23	0.7894	1.2	0.3	1.8	1.9	23.6	1,000	19.1
0.85	37/0.172	0.8597	1.2	0.3	1.8	1.9	21.7	1,000	19.9
1	19/0.26	1.0088	1.3	0.3	1.9	2.0	18.5	800	22.1
1.25	37/0.21	1.2815	1.5	0.3	2.1	2.2	14.6	800	26.0
1.5	19/0.32	1.5280	1.6	0.3	2.2	2.3	2.7	500	28.4
2	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	500	34.8
2.5	50/0.26	2.6550	2.1	0.4	2.9	3.1	7.6	500	40.6

* Maximum allowable current at ambient temperature 40℃

AVSSHF

A : Low-tension cables for automobiles
V : Polyvinyl chloride insulated
SS : Very thin-wall type
H : Heat resistance
F : Flexible

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Lead-free polyvinyl chloride(115℃)

1. AVSSHF

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.22	7/0.20	0.2199	0.6	0.3	1.2	1.3	84.8	2,000	8.4
0.3	19/0.16	0.3820	0.8	0.3	1.4	1.5	48.8	1,500	11.9
0.5	19/0.19	0.5387	1.0	0.3	1.6	1.7	34.6	1,000	15.0
0.75	19/0.23	0.7894	1.2	0.3	1.8	1.9	23.6	1,000	19.1
1	19/0.26	1.0088	1.3	0.3	1.9	2.0	18.5	800	22.1
1.25	37/0.21	1.2815	1.5	0.3	2.1	2.2	14.6	800	26.0
1.5	19/0.32	1.5280	1.6	0.3	2.2	2.3	2.7	500	28.4
2	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	500	34.8
2.5	50/0.26	2.6550	2.1	0.4	2.9	3.1	7.6	500	40.6

* Maximum allowable current at ambient temperature 40℃

AEXF

A : Low-tension cables for automobiles
E : Polyethylene insulated
X : Cross-linked
F : Flexible

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Cross-linked Halogen-free polyethylene(135℃)

1. AEXF

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.3	12/0.18	0.3054	0.7	0.5	1.8	1.9	61.1	1,500	12.7
0.5	20/0.18	0.5089	1.0	0.5	2.0	2.1	36.7	1,000	17.3
0.75	30/0.18	0.7634	1.1	0.5	2.2	2.3	24.4	700	22.0
0.85	34/0.18	0.8652	1.2	0.5	2.2	2.3	21.6	500	23.5
1.25	50/0.18	1.2723	1.5	0.6	2.7	2.8	14.7	500	30.8
2	79/0.18	2.0103	1.9	0.6	3.0	3.2	9.42	300	41.8
3	119/0.18	3.028	2.3	0.7	3.7	3.9	6.15	300	53.4
5	207/0.18	5.268	3.0	0.8	4.6	4.8	3.94	200	71.9
8	315/0.18	8.016	3.7	0.8	5.3	5.5	2.32	200	98.4
10	399/0.18	10.15	4.2	0.9	6.0	6.2	1.76	200	117
12	476/0.18	12.11	4.5	1.1	6.8	7.0	1.47	1,500	132
15	588/0.18	14.96	5.0	1.1	7.2	7.5	1.20	1,500	149
20	247/0.32	19.87	6.3	1.1	8.5	8.8	0.92	800	179
30	378/0.32	30.40	8.0	1.5	11.0	11.3	0.61	500	232
40	494/0.32	39.73	9.2	1.5	12.2	12.6	0.457	500	275
50	608/0.32	48.9	10	1.6	13.2	13.6	0.371	200	310
60	741/0.32	59.6	11	1.6	14.2	14.6	0.304	200	348
85	1,064/0.32	85.6	13	2.0	17.2	17.5	0.212	200	429
100	1,369/0.32	110.1	15	2.0	19.0	19.5	0.165	150	498

* Maximum allowable current at ambient temperature 40℃

AESSXF

A : Low-tension cables for automobiles
E : Polyethylene insulated
SS : Very thin-wall type
X : Cross-linked
F : Flexible

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

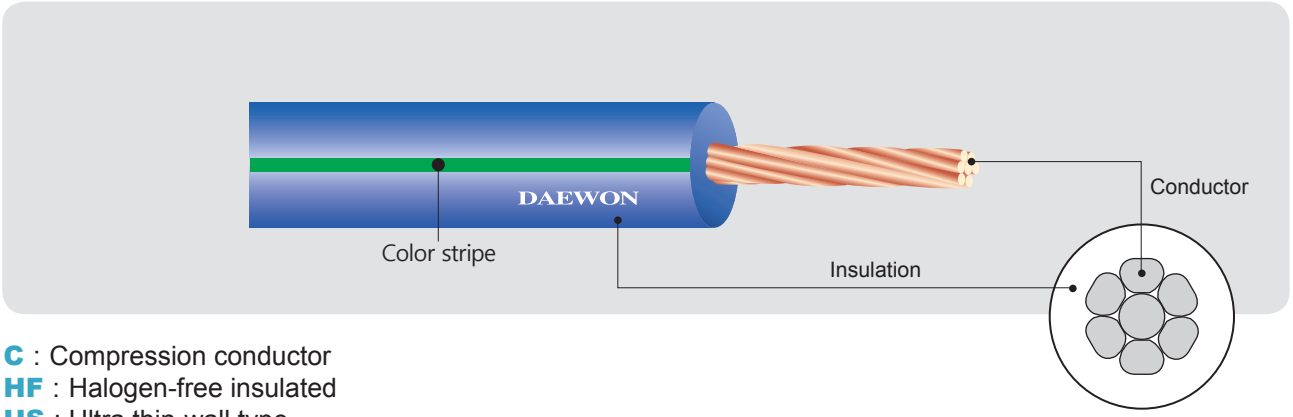
MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Cross-linked Halogen-free polyethylene(135℃)

1. AESSXF

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.22	7/0.20	0.2199	0.6	0.3	1.2	1.3	84.8	2,000	9.3
0.3	19/0.16	0.3820	0.8	0.3	1.4	1.5	48.8	1,500	13.1
0.5	19/0.19	0.5387	1.0	0.3	1.6	1.7	34.6	1,000	16.5
0.75	19/0.23	0.7894	1.2	0.3	1.8	1.9	23.6	1,000	21.1
0.85	37/0.172	0.8597	1.2	0.3	1.8	1.9	21.7	1,000	22.0
1.25	37/0.21	1.2815	1.5	0.3	2.1	2.2	14.6	800	28.6
2	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	500	36.3
2.5	50/0.26	2.6550	2.1	0.4	2.9	3.1	7.6	500	44.8

* Maximum allowable current at ambient temperature 40℃

CHFUS / CHFUS-T2 / CHFUS-T3



C : Compression conductor
HF : Halogen-free insulated
US : Ultra thin-wall type
-T2 : Heat resistance class 2, **-T3** : Heat resistance class 3

STANDARD
ISO 6722 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tin alloy compression stranded copper
Insulation : Halogen-free polypropylene(95, 115, 135℃)

1. CHFUS

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.13**	7/Compress	0.1407	0.5	0.2	0.9	0.95	165	3,000	4.8
0.22	7/Compress	0.2425	0.6	0.2	1.0	1.05	84.8	2,000	7.1

* Maximum allowable current at ambient temperature 40℃ ** Tin alloy conductor

2. CHFUS-T2

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.13**	7/Compress	0.1407	0.5	0.2	0.9	0.95	165	3,000	5.4
0.22	7/Compress	0.2425	0.6	0.2	1.0	1.05	84.8	2,000	8.0

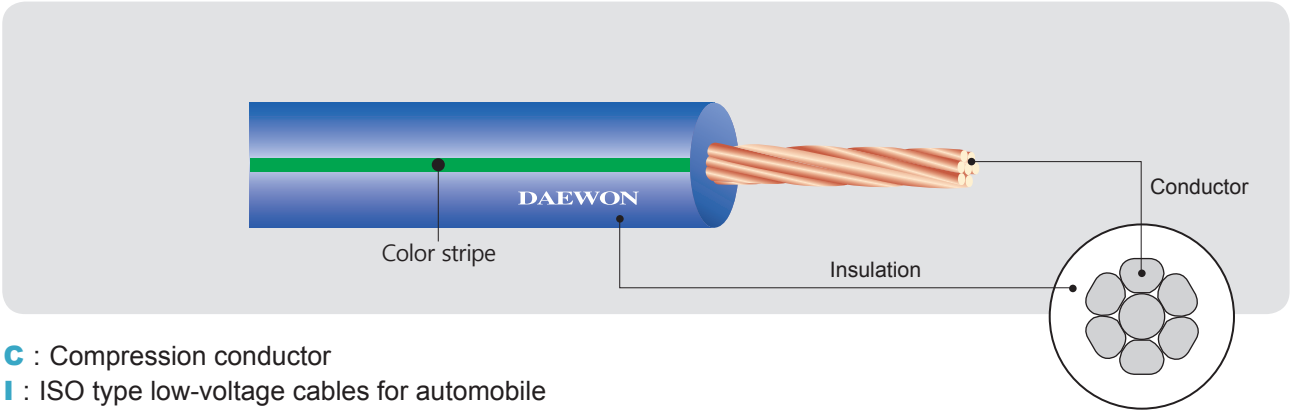
* Maximum allowable current at ambient temperature 40℃ ** Tin alloy conductor

3. CHFUS-T3

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.13**	7/Compress	0.1407	0.5	0.2	0.9	0.95	165	3,000	5.9
0.22	7/Compress	0.2425	0.6	0.2	1.0	1.05	84.8	2,000	8.7

* Maximum allowable current at ambient temperature 40℃ ** Tin alloy conductor

CIVUS



C : Compression conductor
I : ISO type low-voltage cables for automobile
V : Polyvinyl chloride insulated
US : Ultra thin-wall type

STANDARD
ISO 6722 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tin alloy compression stranded copper
Insulation : Lead-free polyvinyl chloride(85℃)

1. CIVUS

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.35	7/Compress	0.3436	0.70	0.2	1.10	1.20	54.4	1,500	8.3
0.5	7/Compress	0.4948	0.85	0.2	1.25	1.40	37.1	1,000	10.7
0.75	11/Compress	0.7266	1.00	0.2	1.40	1.60	24.7	1,000	13.8
1.0	16/Compress	0.9852	1.20	0.2	1.60	1.80	18.5	800	16.9

* Maximum allowable current at ambient temperature 40℃

HFSSF-T3

HF : Halogen-free insulated
SS : Very thin-wall type
F : Flexible
-T3 : Heat resistance class 3

STANDARD
JASO D 611 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Halogen-free polypropylene(135℃)

1. HFSSF-T3

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.3	19/0.16	0.3820	0.8	0.3	1.4	1.5	48.8	1,500	13.1
0.5	19/0.19	0.5387	1.0	0.3	1.6	1.7	34.6	1,000	16.5
0.75	19/0.23	0.7894	1.2	0.3	1.8	1.9	23.6	1,000	21.1
1.25	37/0.21	1.2815	1.5	0.3	2.1	2.2	14.6	800	28.6
2	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	500	38.3

* Maximum allowable current at ambient temperature 40℃

AVUHSF

A : Low-tension cables for automobiles
V : Polyvinyl chloride insulated
UH : Ultra heat resistance
SF : Supper flexible

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tinned stranded copper
Insulation : Lead-free polyvinyl chloride(135℃)

1. AVUHSF

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
5	207/0.18	5.268	3.0	0.8	4.6	4.8	3.94	200	70.8
8	315/0.18	8.016	3.7	0.8	5.3	5.5	2.32	200	97.1
10	399/0.18	10.15	4.2	0.9	6.0	6.2	1.76	2,000	115
15	588/0.18	14.96	5.0	1.1	7.2	7.5	1.25	1,500	143
20	779/0.18	19.82	6.3	1.2	8.7	9.0	0.99	1,500	170
25	1007/0.18	25.63	7.1	1.3	9.7	10.0	0.75	1,000	200
30	1159/0.18	29.49	8.0	1.3	10.6	10.9	0.61	800	228
40	1558/0.18	39.65	9.2	1.4	12.0	12.4	0.46	500	270
50	1919/0.18	48.8	10	1.5	13.0	13.4	0.39	200	298
60	1121/0.26	59.5	11	1.5	14.0	14.4	0.29	200	351
85	1596/0.26	84.7	13	1.6	16.2	16.6	0.21	200	426
100	1881/0.26	99.9	15	1.6	18.2	18.6	0.17	150	485

* Maximum allowable current at ambient temperature 40℃

ATW-FEP

A : Low-tension cables for automobiles
TW : Teflon Wire
FEP : Fluorinated ethylene propylene insulated

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Used for wiring of car engine room, electrical and electronic components and another product up to 200℃ temperature

MATERIAL
Conductor : Tin coated annealed stranded copper
Insulation : Teflon(FEP)

1. ATW-FEP

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
0.22	7/원형압축	0.2265	0.6	0.35	1.3	1.36	94.2	1,500	11.0
0.3	15/0.18	0.3817	0.8	0.3	1.4	1.5	51.5	1,000	15.4
0.5	20/0.18	0.5089	1.0	0.3	1.6	1.7	38.6	1,000	18.8
0.85	38/0.18	0.8652	1.2	0.3	1.8	1.9	22.7	500	25.8
1.25	50/0.18	1.2723	1.5	0.3	2.1	2.2	15.5	500	33.3
2	81/0.18	2.0612	1.9	0.4	2.6	2.7	9.78	500	45.7
3	120/0.18	3.054	2.6	0.4	3.4	3.6	6.62	300	61.4

* Maximum allowable current at ambient temperature 40℃

AHEX

AH : High voltage cables for automobiles
E : Polyethylene insulated
X : Cross-linked

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in high voltage circuits in automobiles

MATERIAL
Conductor : Tin coated annealed stranded copper
Insulation : Cross-linked Halogen-free polyethylene(125℃)

1. AHEX

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
2	37/0.26	1.9644	1.8	0.6	3.0	3.20	10.1	300	37.2
3	65/0.26	3.451	2.4	0.7	3.8	4.05	5.65	300	54.0
5	65/0.32	5.228	3.0	0.8	4.6	4.90	3.72	200	86.2
8	7/22/0.26	9.176	4.0	0.8	5.6	5.90	2.43	200	94.0
10	7/26/0.26	10.03	4.5	1.0	6.5	6.80	1.98	2,000	108
12	7/22/0.32	12.39	5.0	1.0	7.0	7.30	1.52	1,800	126
15	19/9/0.32	13.75	5.3	1.1	7.5	7.80	1.44	1,500	132
20	19/13/0.32	19.86	6.5	1.1	8.7	9.05	1.00	1,500	166
25	19/17/0.32	25.98	7.4	1.4	10.2	10.60	0.76	1,000	196
30	19/19/0.32	29.03	7.8	1.4	10.6	11.00	0.68	800	209
40	19/26/0.32	39.73	9.1	1.4	11.9	12.30	0.52	500	247
50	19/32/0.32	48.90	10.1	1.6	13.3	13.75	0.42	200	280

* Maximum allowable current at ambient temperature 40℃

AHHEX

AH : High voltage cables for automobiles
H : Heat resistance
E : Polyethylene insulated
X : Cross-linked

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in high voltage circuits in automobiles

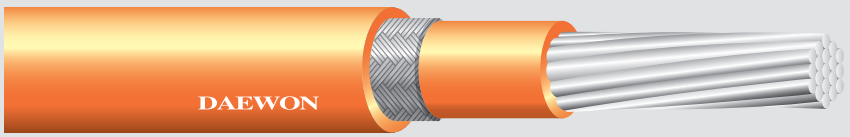
MATERIAL
Conductor : Tin coated annealed stranded copper
Insulation : Cross-linked Halogen-free polyethylene(150℃)

1. AHHEX

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
2	37/0.26	1.9644	1.8	0.6	3.0	3.20	10.1	300	40.8
3	65/0.26	3.451	2.4	0.7	3.8	4.05	5.65	300	59.3
5	65/0.32	5.228	3.0	0.8	4.6	4.90	3.72	200	94.7
8	7/22/0.26	9.176	4.0	0.8	5.6	5.90	2.43	200	103
10	7/26/0.26	10.03	4.5	1.0	6.5	6.80	1.98	2,000	119
12	7/22/0.32	12.39	5.0	1.0	7.0	7.30	1.52	1,800	139
15	19/9/0.32	13.75	5.3	1.1	7.5	7.80	1.44	1,500	145
20	19/13/0.32	19.86	6.5	1.1	8.7	9.05	1.00	1,500	182
25	19/17/0.32	25.98	7.4	1.4	10.2	10.60	0.76	1,000	215
30	19/19/0.32	29.03	7.8	1.4	10.6	11.00	0.68	800	230
40	19/26/0.32	39.73	9.1	1.4	11.9	12.30	0.52	500	271
50	19/32/0.32	48.90	10.1	1.6	13.3	13.75	0.42	200	308

* Maximum allowable current at ambient temperature 40℃

AHEX-BS



AH : High voltage cables for automobiles
E : Polyethylene insulated
X : Cross-linked
BS : Braided Shield

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in high voltage circuits in automobiles

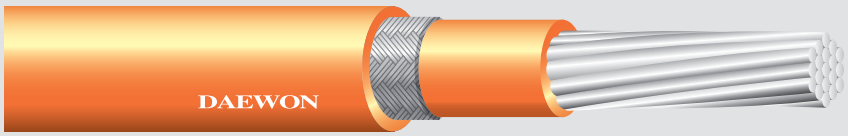
MATERIAL
Conductor : Tin coated annealed stranded copper
Insulation : Cross-linked Halogen-free polyethylene(125℃)
Shield : Tin coated annealed copper
Sheath : Polyvinyl chloride(95℃)

1. AHEX-BS

Conductor				Insulation		Braided Shield	Sheath		Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	Thickness (mm)	Diameter (mm)	(N/N/mm)	Thickness (mm)	Diameter (mm)	(Ω/km)	(m)	(A)
2	37/0.26	1.9644	1.8	0.6	3.0..20	24/5/0.12	0.5	4.5..30	10.1	300	37.2
3	65/0.26	3.451	2.4	0.7	3.8..25	24/6/0.12	0.5	5.3..30	5.65	300	54.0
5	65/0.32	5.228	3.0	0.8	4.6..30	24/7/0.14	0.8	6.9..40	3.72	200	86.2
8	7/22/0.26	9.176	4.0	0.8	5.6..30	24/7/0.14	0.8	7.9..40	2.43	200	94.0
10	7/26/0.26	10.03	4.5	1.0	6.5..30	24/6/0.18	0.8	9.0..40	1.98	2,000	108
12	7/22/0.32	12.39	5.0	1.0	7.0..30	24/6/0.18	1.0	9.8..40	1.52	1,800	126
15	19/9/0.32	13.75	5.3	1.1	7.5..30	24/7/0.18	1.0	10.3..45	1.44	1,500	132
20	19/13/0.32	19.86	6.5	1.1	8.7..35	24/8/0.18	1.0	11.5..45	1.00	1,500	166
25	19/17/0.32	25.98	7.4	1.4	10.2..40	24/9/0.18	1.0	13.0..50	0.76	1,000	196
30	19/19/0.32	29.03	7.8	1.4	10.6..40	24/9/0.18	1.0	13.4..50	0.68	800	209
40	19/26/0.32	39.73	9.1	1.4	11.9..40	24/10/0.18	1.5	15.7..55	0.52	500	247
50	19/32/0.32	48.90	10.1	1.6	13.3..45	24/10/0.18	1.5	17.1..60	0.42	200	280

* Maximum allowable current at ambient temperature 40℃

AHHEX-BS



AH : High voltage cables for automobiles
H : Heat resistance
E : Polyethylene insulated
X : Cross-linked
BS : Braided Shield

STANDARD
JASO D 608 / HKMC ES SPEC.

USE
Cable used in high voltage circuits in automobiles

MATERIAL
Conductor : Tin coated annealed stranded copper
Insulation : Cross-linked Halogen-free polyethylene(150℃)
Shield : Tin coated annealed copper
Sheath : Cross-linked Halogen-free polyethylene(125℃)

1. AHHEX-BS

Conductor				Insulation		Braided Shield	Sheath		Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	Thickness (mm)	Diameter (mm)	(N/N/mm)	Thickness (mm)	Diameter (mm)	(Ω/km)	(m)	(A)
2	37/0.26	1.9644	1.8	0.6	3.0..20	24/5/0.12	0.5	4.5..30	10.1	300	40.8
3	65/0.26	3.451	2.4	0.7	3.8..25	24/6/0.12	0.5	5.3..30	5.65	300	59.3
5	65/0.32	5.228	3.0	0.8	4.6..30	24/7/0.14	0.8	6.9..40	3.72	200	94.7
8	7/22/0.26	9.176	4.0	0.8	5.6..30	24/7/0.14	0.8	7.9..40	2.43	200	103
10	7/26/0.26	10.03	4.5	1.0	6.5..30	24/6/0.18	0.8	9.0..40	1.98	2,000	119
12	7/22/0.32	12.39	5.0	1.0	7.0..30	24/6/0.18	1.0	9.8..40	1.52	1,800	139
15	19/9/0.32	13.75	5.3	1.1	7.5..30	24/7/0.18	1.0	10.3..45	1.44	1,500	145
20	19/13/0.32	19.86	6.5	1.1	8.7..35	24/8/0.18	1.0	11.5..45	1.00	1,500	182
25	19/17/0.32	25.98	7.4	1.4	10.2..40	24/9/0.18	1.0	13.0..50	0.76	1,000	215
30	19/19/0.32	29.03	7.8	1.4	10.6..40	24/9/0.18	1.0	13.4..50	0.68	800	230
40	19/26/0.32	39.73	9.1	1.4	11.9..40	24/10/0.18	1.5	15.7..55	0.52	500	271
50	19/32/0.32	48.90	10.1	1.6	13.3..45	24/10/0.18	1.5	17.1..60	0.42	200	308

* Maximum allowable current at ambient temperature 40℃

FLRY-A

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
Y : Polyvinyl chloride insulated
A : Symmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Lead-free polyvinyl chloride(100℃)

1. FLRY-A(CU-R2PVC)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
0.35	7	0.27	0.9	0.25	0.20	1.4	1.2	54.4	3,000	9.8
0.5	19	0.19	1.1	0.28	0.22	1.7	1.4	37.1	1,000	12.9
0.75	19	0.24	1.3	0.30	0.24	1.9	1.7	24.7	1,000	17.0
1	19	0.27	1.5	0.30	0.24	2.1	1.9	18.5	800	20.5
1.5	19	0.33	1.8	0.30	0.24	2.4	2.2	12.7	500	26.2
2	19	0.38	2.0	0.35	0.28	2.8	2.5	9.42	500	31.9
2.5	37	0.30	2.2	0.35	0.28	3.0	2.7	7.60	300	36.8

* Maximum allowable current at ambient temperature 40℃

FLRY-B

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
Y : Polyvinyl chloride insulated
B : Asymmetrical type conductor

STANDARD

ISO 6722 / ISO 19642 / GMW15626

USE

Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL

Conductor : Annealed or tined stranded copper
Insulation : Lead-free polyvinyl chloride(100℃)

1. FLRY-B(CU-R2PVC)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
0.35	12	0.21	0.9	0.25	0.20	1.4	1.2	54.4	1,500	9.8
0.5	16	0.21	1.1	0.28	0.22	1.7	1.4	37.1	2,000	12.9
0.75	24	0.21	1.3	0.30	0.24	1.9	1.7	24.7	1,500	17.0
1	32	0.21	1.5	0.30	0.24	2.1	1.9	18.5	1,200	20.5
1.5	30	0.26	1.8	0.30	0.24	2.4	2.2	12.7	700	26.2
2	28	0.31	2.0	0.35	0.28	2.8	2.5	9.42	500	31.9
2.5	50	0.26	2.2	0.35	0.28	3.0	2.7	7.60	500	36.8
3	44	0.31	2.4	0.40	0.32	3.4	3.1	6.15	300	42.8
4	56	0.31	2.8	0.40	0.32	3.8	3.4	4.71	350	50.6
5	70	0.31	3.1	0.40	0.32	4.2	3.9	3.94	200	57.7
6	84	0.31	3.4	0.40	0.32	4.3	4.0	3.14	200	65.3
8	62	0.41	4.3	0.40	0.32	5.0	4.6	2.38	200	78.8
10	80	0.41	4.5	0.60	0.48	6.0	5.3	1.82	200	93.7

* Maximum allowable current at ambient temperature 40℃

FLR2X-A

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
2X : Cross-linked polyethylene insulated
A : Symmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(125℃)

1. FLR2X-A(CU-R3XLPE)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
0.35	7	0.27	0.9	0.25	0.20	1.4	1.2	54.4	3,000	11.4
0.5	19	0.19	1.1	0.28	0.22	1.7	1.4	37.1	1,000	14.8
0.75	19	0.24	1.3	0.30	0.24	1.9	1.7	24.7	1,000	19.5
1	19	0.27	1.5	0.30	0.24	2.1	1.9	18.5	800	23.5
1.5	19	0.33	1.8	0.30	0.24	2.4	2.2	12.7	500	30.1
2	19	0.38	2.0	0.35	0.28	2.8	2.5	9.42	500	37.0
2.5	37	0.30	2.2	0.35	0.28	3.0	2.7	7.60	300	42.5

* Maximum allowable current at ambient temperature 40℃

FLR2X-B

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
2X : Cross-linked polyethylene insulated
B : Asymmetrical type conductor

STANDARD

ISO 6722 / ISO 19642 / GMW15626

USE

Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL

Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(125℃)

1. FLR2X-B(CU-R3XLPE)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
0.35	12	0.21	0.9	0.25	0.20	1.4	1.2	54.4	1,500	11.4
0.5	16	0.21	1.1	0.28	0.22	1.7	1.4	37.1	2,000	14.8
0.75	24	0.21	1.3	0.30	0.24	1.9	1.7	24.7	1,500	19.5
1	32	0.21	1.5	0.30	0.24	2.1	1.9	18.5	1,200	23.5
1.5	30	0.26	1.8	0.30	0.24	2.4	2.2	12.7	700	30.1
2	28	0.31	2.0	0.35	0.28	2.8	2.5	9.42	500	37.0
2.5	50	0.26	2.2	0.35	0.28	3.0	2.7	7.60	500	42.5
3	44	0.31	2.4	0.40	0.32	3.4	3.1	6.15	300	49.5
4	56	0.31	2.8	0.40	0.32	3.8	3.4	4.71	350	58.5
5	70	0.31	3.1	0.40	0.32	4.2	3.9	3.94	200	66.7
6	84	0.31	3.4	0.40	0.32	4.3	4.0	3.14	200	75.6
8	62	0.41	4.3	0.40	0.32	5.0	4.6	2.38	200	91.0
10	80	0.41	4.5	0.60	0.48	6.0	5.3	1.82	200	109

* Maximum allowable current at ambient temperature 40℃

FLR2X-C

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
2X : Cross-linked polyethylene insulated
C : Asymmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(125℃)

1. FLR2X-C(CU-R3XLPE)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
6	320	0.16	3.4	0.40	0.32	4.3	4.0	3.14	200	75.9
8	240	0.21	4.3	0.40	0.32	5.0	4.6	2.38	200	91.4
10	320	0.21	4.5	0.60	0.48	6.0	5.3	1.82	200	109
12	380	0.21	5.4	0.60	0.48	6.5	5.8	1.52	2,000	123
16	512	0.21	6.3	0.65	0.52	7.2	6.4	1.16	2,000	145
20	610	0.21	6.9	0.65	0.52	7.8	7.0	0.955	1,500	164
25	790	0.21	7.8	0.65	0.52	8.7	7.9	0.743	1,000	193
30	900	0.21	8.3	0.80	0.64	9.6	8.7	0.647	1,000	211
35	1070	0.21	9.0	0.80	0.64	10.4	9.4	0.527	800	238

* Maximum allowable current at ambient temperature 40℃

FLR91X-A

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
91X : Cross-linked polyethylene insulated
A : Symmetrical type conductor

STANDARD

ISO 6722 / ISO 19642 / GMW15626

USE

Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL

Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(150℃)

1. FLR91X-A(CU-R4XLPE)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
0.35	7	0.27	0.9	0.25	0.20	1.4	1.2	54.4	3,000	12.5
0.5	19	0.19	1.1	0.28	0.22	1.7	1.4	37.1	1,000	16.3
0.75	19	0.24	1.3	0.30	0.24	1.9	1.7	24.7	1,000	21.4
1	19	0.27	1.5	0.30	0.24	2.1	1.9	18.5	800	25.9
1.5	19	0.33	1.8	0.30	0.24	2.4	2.2	12.7	500	33.1
2	19	0.38	2.0	0.35	0.28	2.8	2.5	9.42	500	40.7
2.5	37	0.30	2.2	0.35	0.28	3.0	2.7	7.60	300	46.6

* Maximum allowable current at ambient temperature 40℃

FLR91X-B

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
91X : Cross-linked polyethylene insulated
B : Asymmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(150℃)

1. FLR91X-B(CU-R4XLPE)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
0.35	12	0.21	0.9	0.25	0.20	1.4	1.2	54.4	1,500	12.5
0.5	16	0.21	1.1	0.28	0.22	1.7	1.4	37.1	2,000	16.3
0.75	24	0.21	1.3	0.30	0.24	1.9	1.7	24.7	1,500	21.4
1	32	0.21	1.5	0.30	0.24	2.1	1.9	18.5	1,200	25.9
1.5	30	0.26	1.8	0.30	0.24	2.4	2.2	12.7	700	33.1
2	28	0.31	2.0	0.35	0.28	2.8	2.5	9.42	500	40.7
2.5	50	0.26	2.2	0.35	0.28	3.0	2.7	7.60	500	46.6
3	44	0.31	2.4	0.40	0.32	3.4	3.1	6.15	300	54.3
4	56	0.31	2.8	0.40	0.32	3.8	3.4	4.71	350	64.2
5	70	0.31	3.1	0.40	0.32	4.2	3.9	3.94	200	73.3
6	84	0.31	3.4	0.40	0.32	4.3	4.0	3.14	200	83.0
8	62	0.41	4.3	0.40	0.32	5.0	4.6	2.38	200	100
10	80	0.41	4.5	0.60	0.48	6.0	5.3	1.82	200	119

* Maximum allowable current at ambient temperature 40℃

FLR91X-C

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
91X : Cross-linked polyethylene insulated
C : Asymmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(150℃)

1. FLR91X-C(CU-R4XLPE)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
6	320	0.16	3.4	0.40	0.32	4.3	4.0	3.14	200	83.3
8	240	0.21	4.3	0.40	0.32	5.0	4.6	2.38	200	100
10	320	0.21	4.5	0.60	0.48	6.0	5.3	1.82	2,000	119
12	380	0.21	5.4	0.60	0.48	6.5	5.8	1.52	2,000	135
16	512	0.21	6.3	0.65	0.52	7.2	6.4	1.16	2,000	160
20	610	0.21	6.9	0.65	0.52	7.8	7.0	0.955	1,500	180
25	790	0.21	7.8	0.65	0.52	8.7	7.9	0.743	1,000	212
30	900	0.21	8.3	0.80	0.64	9.6	8.7	0.647	1,000	231
35	1070	0.21	9.0	0.80	0.64	10.4	9.4	0.527	800	261

* Maximum allowable current at ambient temperature 40℃

CU-R3EPDM

CU : Bare copper
R : Reduced wall thickness
3 : Temperature class(125℃)
EPDM : Ethylene propylene diene monomer insulated

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Ethylene propylene diene monomer(125℃)

1. CU-R3EPDM (Conductor type : C)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
6	320	0.16	3.4	0.40	0.32	4.3	4.0	3.14	200	75.9
8	240	0.21	4.3	0.40	0.32	5.0	4.6	2.38	200	91.4
10	320	0.21	4.5	0.60	0.48	6.0	5.3	1.82	2,000	109
12	380	0.21	5.4	0.60	0.48	6.5	5.8	1.52	2,000	123
16	512	0.21	6.3	0.65	0.52	7.2	6.4	1.16	2,000	145
20	610	0.21	6.9	0.65	0.52	7.8	7.0	0.955	1,500	164
25	790	0.21	7.8	0.65	0.52	8.7	7.9	0.743	1,000	193
30	900	0.21	8.3	0.80	0.64	9.6	8.7	0.647	1,000	211
35	1070	0.21	9.0	0.80	0.64	10.4	9.4	0.527	800	238

* Maximum allowable current at ambient temperature 40℃

CU-R4EPDM

CU : Bare copper
R : Reduced wall thickness
4 : Temperature class(150℃)
EPDM : Ethylene propylene diene monomer insulated

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed stranded copper
Insulation : Ethylene propylene diene monomer(150℃)

1. CU-R4EPDM (Conductor type : C)

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
6	320	0.16	3.4	0.40	0.32	4.3	4.0	3.14	200	83.3
8	240	0.21	4.3	0.40	0.32	5.0	4.6	2.38	200	100
10	320	0.21	4.5	0.60	0.48	6.0	5.3	1.82	2,000	119
12	380	0.21	5.4	0.60	0.48	6.5	5.8	1.52	2,000	135
16	512	0.21	6.3	0.65	0.52	7.2	6.4	1.16	2,000	160
20	610	0.21	6.9	0.65	0.52	7.8	7.0	0.955	1,500	180
25	790	0.21	7.8	0.65	0.52	8.7	7.9	0.743	1,000	212
30	900	0.21	8.3	0.80	0.64	9.6	8.7	0.647	1,000	231
35	1070	0.21	9.0	0.80	0.64	10.4	9.4	0.527	800	261

* Maximum allowable current at ambient temperature 40℃

FLRYW-A

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
YW : Polyvinyl chloride heat resistance insulated
A : Symmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / SES E 061

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Lead-free heat resistance polyvinyl chloride(125℃)

1. FLRYW-A

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
0.35	7	0.27	0.9	0.25	0.20	1.4	1.2	54.4	1,500	11.3
0.5	19	0.19	1.1	0.28	0.22	1.7	1.4	37.1	1,000	14.7
0.75	19	0.24	1.3	0.30	0.24	1.9	1.7	24.7	1,000	19.5
1	19	0.27	1.5	0.30	0.24	2.1	1.9	18.5	1,000	23.5
1.5	19	0.33	1.8	0.30	0.24	2.4	2.2	12.7	700	30.0
2	19	0.38	2.0	0.35	0.28	2.8	2.5	9.42	500	36.6
2.5	37	0.30	2.2	0.35	0.28	3.0	2.7	7.60	400	42.1
3	37	0.34	2.4	0.40	0.32	3.4	3.1	6.15	300	49.0
4	37	0.38	2.8	0.40	0.32	3.8	3.4	4.71	300	57.9
5	37	0.43	3.1	0.40	0.32	4.2	3.9	3.94	200	66.1
6	37	0.45	3.4	0.40	0.32	4.3	4.0	3.14	200	74.9

* Maximum allowable current at ambient temperature 40℃

FLRYW-B

FL : Low-voltage cables for automobiles
R : Reduced wall thickness
YW : Polyvinyl chloride heat resistance insulated
B : Asymmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / SES E 061

USE
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Lead-free heat resistance polyvinyl chloride(125℃)

1. FLRYW-B

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
0.35	12	0.21	0.9	0.25	0.20	1.4	1.2	54.4	1,500	11.3
0.5	16	0.21	1.1	0.28	0.22	1.7	1.4	37.1	1,000	14.7
0.75	24	0.21	1.3	0.30	0.24	1.9	1.7	24.7	1,000	19.5
1	32	0.21	1.5	0.30	0.24	2.1	1.9	18.5	1,000	23.5
1.5	30	0.26	1.8	0.30	0.24	2.4	2.2	12.7	700	30.0
2	28	0.31	2.0	0.35	0.28	2.8	2.5	9.42	500	36.6
2.5	50	0.26	2.2	0.35	0.28	3.0	2.7	7.60	400	42.1
3	44	0.31	2.4	0.40	0.32	3.4	3.1	6.15	300	49.0
4	56	0.31	2.8	0.40	0.32	3.8	3.4	4.71	300	57.9
5	70	0.31	3.1	0.40	0.32	4.2	3.9	3.94	200	66.1
6	84	0.31	3.4	0.40	0.32	4.3	4.0	3.14	200	74.9
8	62	0.41	4.3	0.40	0.32	5.0	4.6	2.38	200	90.3
10	80	0.41	4.5	0.60	0.48	6.0	5.3	1.82	200	107

* Maximum allowable current at ambient temperature 40℃

FHL2X-B

FHL : High-voltage cables for automobiles
2X : Cross-linked polyethylene insulated
B : Asymmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / HKMC ES SPEC.

USE
Cable used in high voltage circuits in automobiles (vehicles and motorcycles)

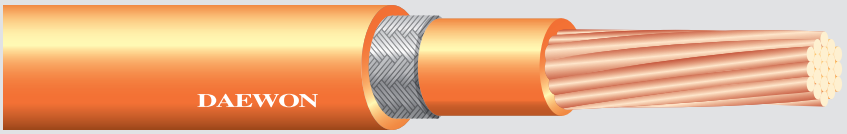
MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(125℃)

1. FHL2X-B

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
2	28/0.30	1.9792	1.8	0.7	3.2	3.40	9.42	300	39.1
3	44/0.30	3.1102	2.3	0.8	3.9	4.10	6.15	300	51.9

* Maximum allowable current at ambient temperature 40℃

FHL2XC2X



FHL : High-voltage cables for automobiles
2X : Cross-linked polyethylene insulated
C : Braided Shield Tinned Copper
2X : Cross-linked polyethylene sheathed

STANDARD

ISO 6722 / ISO 19642 / HKMC ES SPEC.

USE

Cable used in high voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL

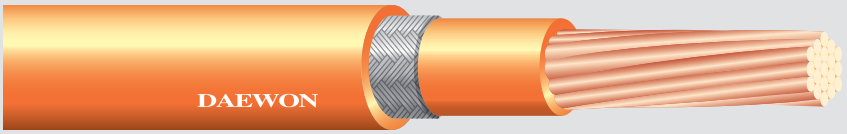
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(125℃)
Shield : Tin coated annealed copper
Sheath : Cross-linked Halogen-free polyethylene(125℃)

1. FHL2XC2X

Conductor				Insulation		Braided shield		Sheath		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Dia. (mm)	Thick. (mm)	Dia. (mm)	Wire dia. (mm)	Min. density (%)	Thick. (mm)	Dia. (mm)			
2	28/0.30	1.9792	1.8	0.7	3.2	0.12	90	0.9	5.4	9.42	300	39.1
3	44/0.30	3.1102	2.3	0.8	3.9	0.12	90	1.0	6.5	6.15	200	51.9
6	84/0.30	5.9376	3.2	0.8	4.8	0.14	90	1.1	7.6	3.14	200	78.4

* Maximum allowable current at ambient temperature 40℃

FHL91XC91X



FHL : High-voltage cables for automobiles
91X : Cross-linked polyethylene insulated
C : Braided Shield Tinned Copper
91X : Cross-linked polyethylene sheathed

STANDARD
ISO 6722 / ISO 19642 / HKMC ES SPEC.

USE
Cable used in high voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(150℃)
Shield : Tin coated annealed copper
Sheath : Cross-linked Halogen-free polyethylene(150℃)

1. FHL91XC91X

Conductor				Insulation		Braided shield		Sheath		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Dia. (mm)	Thick. (mm)	Dia. (mm)	Wire dia. (mm)	Min. density (%)	Thick. (mm)	Dia. (mm)			
10	80/0.40	10.0531	4.1	1.05	6.2	0.18	90	1.2	9.4	1.82	2,000	122
16	512/0.20	16.0850	5.3	1.40	8.1	0.18	90	1.3	11.4	1.16	1,500	163

* Maximum allowable current at ambient temperature 40℃

FHL2G-C

FHL : High-voltage cables for automobiles
2G : Cross-linked silicone rubber insulated
C : Asymmetrical type conductor

STANDARD

ISO 6722 / ISO 19642 / HKMC ES SPEC.

USE

Cable used in high voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL

Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Silicone Rubber(180℃)

1. FHL2G-C

Conductor				Nominal Thickness Insulation	Nominal Diameter	Maximum Diameter	Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	Construction (No./mm)	Calculated Cross-sectional Area (mm^2)	Outer Diameter (mm)	(mm)	(mm)	(mm)	(Ω/km)	(m)	(A)
40	1216/0.20	38.2018	8.6	1.4	11.9	12.3	0.473	500	305
70	1330/0.26	70.6136	11.8	1.6	15.0	15.5	0.259	200	437
80	1628/0.25	79.9143	12.5	1.6	15.6	16.1	0.214	200	486

* Maximum allowable current at ambient temperature 40℃

FHLR91X-C

FHL : High-voltage cables for automobiles
R : Reduced wall thickness
91X : Cross-linked polyethylene insulated
C : Asymmetrical type conductor

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in high voltage circuits in automobiles (vehicles and motorcycles)

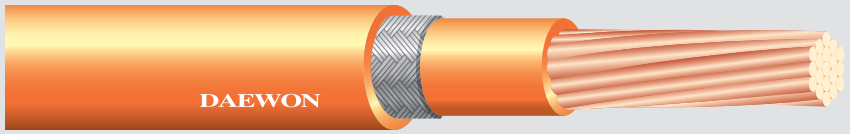
MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(150℃)

1. FHLR91X-C

Conductor				Insulation		Cable Diameter		Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Nominal Thickness (mm)	Minimum Thickness (mm)	Max. (mm)	Min. (mm)			
6	320	0.16	3.4	0.40	0.32	4.3	4.0	3.14	200	83.3
8	240	0.21	4.3	0.40	0.32	5.0	4.6	2.38	200	100
10	320	0.21	4.5	0.60	0.48	6.0	5.3	1.82	2,000	119
12	380	0.21	5.4	0.60	0.48	6.5	5.8	1.52	2,000	135
16	512	0.21	6.3	0.65	0.52	7.2	6.4	1.16	2,000	160
20	610	0.21	6.9	0.65	0.52	7.8	7.0	0.955	1,500	180
25	790	0.21	7.8	0.65	0.52	8.7	7.9	0.743	1,000	212
30	900	0.21	8.3	0.80	0.64	9.6	8.7	0.647	1,000	231
35	1070	0.21	9.0	0.80	0.64	10.4	9.4	0.527	800	261

* Maximum allowable current at ambient temperature 40℃

FHLR91XC91X



FHL : High-voltage cables for automobiles
R : Reduced wall thickness
91X : Cross-linked polyethylene insulated
C : Braided Shield Tinned Copper
91X : Cross-linked polyethylene sheathed

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in high voltage circuits in automobiles (vehicles and motorcycles)

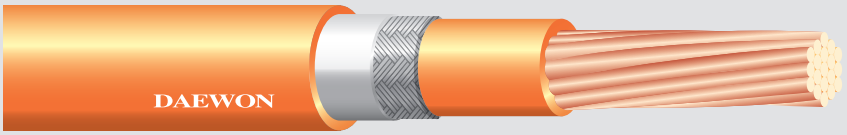
MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked Halogen-free polyethylene(150℃)
Shield : Tin coated annealed copper
Sheath : Cross-linked Halogen-free polyethylene(150℃)

1. FHLR91XC91X

Conductor				Insulation		Braided shield		Sheath			Maximum Conductor Resistance at 20℃ (Ω/km)	Standard Length (m)	Current Limit* (A)
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Min. Thick. (mm)	Outside diameter (mm)	Max. Wire dia. (mm)	Dia. Under Sheath (mm)	Nom. Thick. (mm)	Min. Thick. (mm)	Outside diameter (mm)			
3	160	0.16	2.4	0.32	3.1-3.4	0.16	4.0	0.4	0.32	4.2-4.8	6.15	200	54.1
5	250	0.16	3.1	0.32	3.9-4.2	0.16	4.8	0.6	0.48	5.4-6.0	3.94	200	73.2
6	320	0.16	3.4	0.32	4.0-4.3	0.16	4.9	0.6	0.48	5.5-6.1	3.14	200	83.3
10	320	0.21	4.5	0.48	5.3-6.0	0.19	6.8	0.65	0.52	7.5-8.1	1.82	2,000	120
16	512	0.21	6.3	0.52	6.4-7.2	0.19	8.0	0.8	0.64	9.0-9.6	1.16	1,500	160
50	1600	0.21	10.5	0.71	11.0-12.2	0.21	13.0	1.1	0.88	14.6-15.2	0.368	200	326
70	1427	0.26	12.5	0.80	13.0-14.4	0.21	15.2	1.1	0.88	16.6-17.4	0.259	200	403

* Maximum allowable current at ambient temperature 40℃

FHLR2GCB2G



FHL : High-voltage cables for automobiles
R : Reduced wall thickness
2G : Cross-linked silicone rubber insulated
CB : Braided Shield Tinned Copper and AL-mylar tape
91X : Cross-linked silicone rubber sheathed

STANDARD
ISO 6722 / ISO 19642 / GMW15626

USE
Cable used in high voltage circuits in automobiles (vehicles and motorcycles)

MATERIAL
Conductor : Annealed or tined stranded copper
Insulation : Cross-linked silicone rubber(180℃)
Shield : Tin coated annealed copper and AL-mylar tape
Sheath : Cross-linked silicone rubber(180℃)

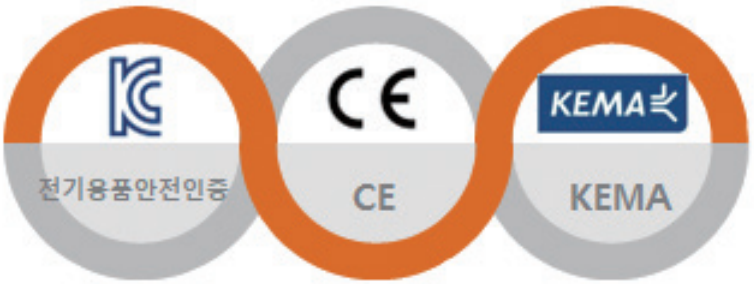
1. FHLR2GCB2G

Conductor				Insulation		Braided shield		Sheath			Maximum Conductor Resistance at 20℃	Standard Length	Current Limit*
Nominal Size (mm^2)	No. of Strands (N)	Max. wire Diameter (mm)	Max. Outer Diameter (mm)	Min. Thick. (mm)	Outside diameter (mm)	Max. Wire dia. (mm)	Dia. Under Sheath (mm)	Nom. Thick. (mm)	Min. Thick. (mm)	Outside diameter (mm)	(Ω/km)	(m)	(A)
70	1427	0.26	12.5	0.80	13.0-14.4	0.21	15.2	1.1	0.88	16.6-17.4	0.259	200	437

* Maximum allowable current at ambient temperature 40℃

인증현황


한국산업규격
UL
TR-CU/GOST


전기용품안전인증
CE
KEMA


한국전력공사
KERI
한국전기연구원
친환경표지인증


IATF 16949
KSA
ISO 9001:2015
KSA
ISO 14001:2015

신뢰성 능력 확보현황

MAIN PRODUCTS

AUTOMOBILE WIRE
- AVS(Low Tension Wire with Reduced Outside Diameter for Automobile)
- AVSS, AVSSF(Very Thin Low Tension Wire with Reduced Outside Diameter for Automobile)
- AVXF, AEXF(Heat Resistant Low Tension Wire for Automobile)
- FLR91X, CU-R4EPDM(Heat Resistant Battery Wire for Automobile)
- AHHEX-BS, FHL91XC91X(Heat Resistant High-Voltage Wire for Automobile)

BARE COPPER WIRES
- Hard Drawn Copper Wire(H)
- Annealed Copper Wire(A)
- Tinned Hard Drawn Copper Wire(TH)
- Annealed Copper Stranded Conductor(AS)
- Flexible Stranded Copper Conductor(Bunch Stranded)(BAS)
- Tinned Hard Drawn Copper Stranded Conductor(THS)
- Tinned Annealed Copper Stranded Conductor(TAS)

INSULATED WIRE & CABLES
- 450/750V PVC Insulated Wire(HIV)
- 600V Heat Resistant PVC Insulated Wire(OW)
- Outdoor Weather proof PVC Insulated Wire(OW)
- 6600V Outdoor PE Insulated Wire(OE)
- 6600V Outdoor XLPE Insulated Wire(OC)
- 22KV Outdoor XLPE Insulated Wire(OC)
- PVC Insulated Drop Sevice Wire(DV)
- PVC Covered Aluminium Bind Wire(SL-BI)
- High Voltage XLPE Insulated Pole Drop Wire(PDC)
- 6600V Outdoor ACSR Conductor XLPE Insulated Wire(ACSR-OC)
- 22KV Ourdoor ACSR Conductor XLPE Insulated Wire(ACSR-OC)
- 6600V Outdoor Aluminium Conductor XLPE Insulated Wire(HAL-OC)
- PVC Cord for Electrical Apparatrs(VF)
- PVC Insulated Cab typsed Core(VCTF)
- 600V PVC Insulated Wire for Electrical Instruments(KIV)
- Low Voltage Cable for Automobile(AV)
- PVC Insulated Cabtype Cable(VCT)
- PVC Insulated PVC Sheathed Control Cable(CW)
- PE Insulated PVC Sheathed Control Cable(CEV)
- XLPE Insulated PVC Sheathed Control Cable(CCV)
- PVC Insulated PVC Sheathed Control Cable with Electrostatic Shield(CW-S)
- PE Insulated PVC sheathed Control Cable with Electrostatic Shield(CEV-S)
- XLPE Insulated PVC Sheathed Control Cable with Electrostatic Shield(CCV-S)
- PVC Insulated PVC Sheathed Signal Cable(SW)
- PVC Insulated PVC Sheathed Self-Supporting Signal Cable(SW-SS)
- Building Wire(TW, THW)
- 600V Flame-Retardant XLPE Insulated PVC Sheathed Cable
- 600V Flame-Retardant XLPE Insulated Wire(XHHW)
- Irradiated wire & cable

ALUMINIUM WIRES
- Hard Drawn Aluminium Wire(HAL)
- Hard Drawn Aluminium Stranded Conductor(HSC)
- Annealed Aluminium Wire(AAL)
- Aluminum Conductor Steel Reinforced(ACSR)

POWER CABLES
- 0.6/1KV PVC Insulated PVC Sheathed Cable(VV)
- 0.6/1KV PE Insulated PVC Sheathed Cable(EV)
- 0.6/1KV XLPE Insulated PVC Sheathed Cable(CV)
- 1.8/3KV XLPE Insulated PVC Sheathed Cable(CV)
- 6/10KV XLPE Insulated PVC Sheathed Cable(CV)
- 8.7/15KV XLPE Insulated PVC Sheathed Cable(CV)
- 12/20KV XLPE Insulated PVC Sheathed Cable(CV)
- 18/30KV XLPE Insulated PVC Sheathed Cable(CV)
- Triplex Type CV Cable(CVT)
- XLPE Insulated PVC Sheathed Wire Armoured Cable(CV-WAV)

COMMUNICATION WIRE & CABLES
- PVC Insulated Indoor Telephone Wire(TIV)
- PVC Insulated Outdoor Telephone Wire(TOV)
- PVC Insulated Self-supporting Outdoor Telephone Wire(TOV-SS)
- PVC Insulated Jumper Wire(TJV)
- PVC Insulated Nylon Jacket Jumper Wire(TJVN)
- PE Insulated Jumper Wire(TJE)
- PE Insulated Outdoor Telephone Wire(TOE)
- High Frequency Coaxial Cable(ECX)
- PVC Insulated PVC Sheathed Switchboard Cable(SWV-SH)
- PE Insulated PE Sheathed pair Type City Cable(CCP-LAP-SZ-SS)
- PE Insulated Jelly Filling PE Sheathed City Cable(CCP-JF-LAP)
- PEF-LAP Toll Cable(PEF-LAP)
- Foam/Skin Jelly Filling Cable(FS-JF-LAP)
- PE Insulated Z Screended Stalpeth Cable(PCM-Z Screen-STALPETH)
- ALPETH Cable
- STALPETH Cable
- Wire Armoured Cable
- Steel Tape Armoured Cable
- PE Insulated Self-Supporting City Cable(CPE-SS)

OPTICAL FIBER CABLES
- Loose Tube Core metallic Cable
- Loose Tube Core non-metalic Cable
- Loose Tube Core Self Supported Cable
- Loose Tube Core Armoured Cable

DATA-COMMUNICATION (LAN) CABLES
- Category 6 UTP Cable
- Category 5 Enhanced UTP Cable
- Category 5 UTP Cable
- Category 3 UTP Cable
- Halogen-Free Lan Cable

DAEWON CABLE CO.,LTD.

영업사무소
충남 예산군 고덕면 호음덕령길 92 (우)32401
TEL : 041)339-3622
FAX : 041)339-3406

본사(공장)
충남 예산군 고덕면 호음덕령길 92 (우)32401
TEL : 041)339-3400
FAX : 041)339-3406

www.daewoncable.co.kr

인쇄번호 : 0820-2023