



● **영업사무소**

충남 예산군 고덕면 오추리 134-7번지 (우)340-934
TEL : 041)339-3620
FAX : 041)339-3606

● **본사(공장)**

충남 예산군 고덕면 오추리 134-7번지 (우)340-934
TEL : 041)339-3400
FAX : 041)339-3406/7

● **www.daewoncable.co.kr**

21C Cable New Leader

DAEWON



Automotive Wire & Cable



DAEWON

Automotive Wire & Cable



1964년 대원전선이 창업된 이래 저희 대원가족은 전선제조공업에서 가장 중요한 것은 품질이라고 굳게 믿어왔습니다. 연구개발, 교육훈련, 설비투자, 생산성 향상, 엄격한 품질관리 및 철저한 사후관리를 통하여 대원전선은 우수한 전선메이커로서의 위치를 확고히 하였고, 특히 자동차 전선분야에서 ISO-TS 16949 인증을 획득하는 등 업계의 선도적 지위를 차지하고 있

습니다.

이처럼 품질에서 가장 우수하고 가격에서 가장 경쟁력 있는 전선이 되기 위한 저희들의 결의와 소망은 항상 계속 될 것입니다. 그동안 대원전선의 발전과 성장을 지켜보아 주시고 성원하여 주신 여러분께 진심으로 감사드리며 앞으로도 고객의 주문에 대처하기 위하여 끊임없이 생산성 향상 및 품질개선을 하겠습니다.

CONTENTS



- 04** AVSS(F)
- 05** AVX(F)/AEX(F)
- 06** Battery Cable AV
- 07** AVS
- 08** Battery Cable AV-V
- 09** AVSSX(F)/AESSX(F)
- 10** FLRY-A/B
- 11** ATW-FEP
- 12** AVV-SB
- 13** AVX-SB
- 14** AEX-BS
- 15** AVSS-SB
- 16** AVSSXF-SB
- 17** APEX-SB
- 18** AVSSF-ALS
- 19** AVSSXF-ALS
- 20** AESSXF-ALS
- 21** AEXHF

Since the foundation of DaeWon in 1964, We've been firmly believing that the most valuable thing in manufacturing electric wires is quality.

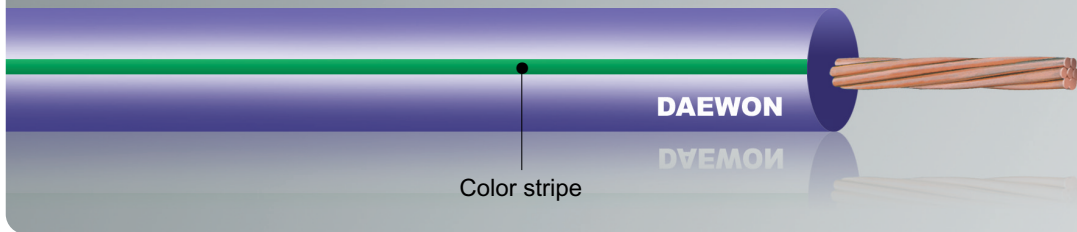
Through constant and sound investment in Research and Development, HRD, manufacturing facilities, productivity, quality and thorough repair service, Daewon has acquired a remarkable position as a wire manufacturer with ISO-TS

16949 certification in regard to car cable manufacturing and has been a leading company in such field.

Making wires in good quality and with price competitiveness is our first priority and it will never ever change.

Thank you very much for your constant support during DaeWon's development and we'll do our best in improving quality and productivity to meet customers' need.

AVSS(F) Very Thin-wall Low-tension Cables For Automobiles



- A** : Low-tension cables for automobiles
- V** : Vinyl Insulated
- SS** : Very thin-wall type
- F** : Flexible

STANDARD

JASO D611, HMC ES SPEC

USE

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

MATERIAL

Conductor : Annealed or tinned stranded copper

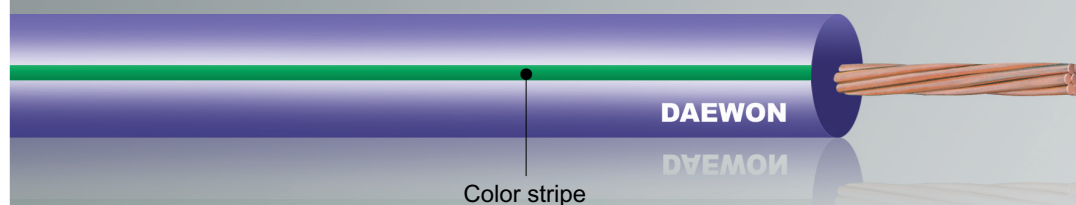
Insulation : Lead-free polyvinyl chloride

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross-sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
0.3	7/0.26	0.3717	0.8	0.3	1.4	1.5	50.2	1000	5
0.3f	19/0.16	0.3821	0.8	0.3	1.4	1.5	48.8	1000	5
0.5	7/0.32	0.563	1	0.3	1.6	1.7	32.7	1000	7.1
0.5f	19/0.19	0.5387	1	0.3	1.6	1.7	34.6	1000	6.9
0.85	19/0.24	0.8595	1.2	0.3	1.8	1.9	21.7	1000	6.8
0.85f	37/0.172	0.8597	1.2	0.3	1.8	1.9	21.7	500	9.9
1.25	19/0.29	1.255	1.5	0.3	2.1	2.2	14.9	500	14.2
1.25f	37/0.21	1.2815	1.5	0.3	2.1	2.2	14.7	500	14.3
2	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	500	22.2

“F”는 도체의 유연성을 뜻함. (“F” means flexibility of conductor.)

Automotive Wire & Cable

AVX(F)/AEX(F) Heat-resistant Low-tension Cables For Automobiles



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

STANDARD

JASO D609, JASO D608, HMC ES SPEC

USE

Cable used in low voltage circuits in automobiles

(vehicles and motorcycles)
 Superior heat resistant with irradiated PVC

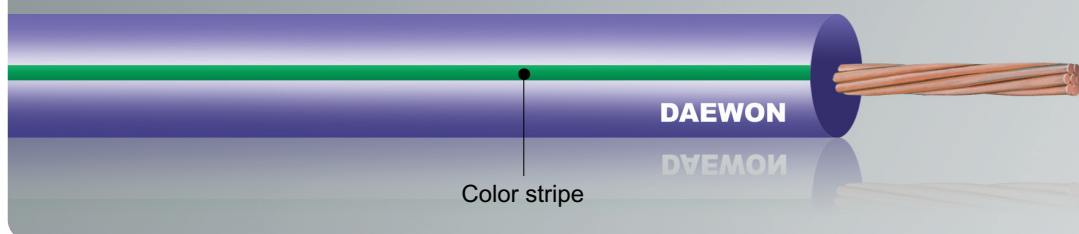
MATERIAL

Conductor : Annealed or tinned stranded copper
 Insulation : AVX - Cross-linked lead free polyvinyl chloride

AEX - Low halogen or halogen free cross-linked polyethylene Environment-friendly cable

Norminal Size (mm²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)	
	Construction (No./mm)	Calculated Cross- sectional Area (mm²)	Outer Diameter (mm)		Norminal Diameter (mm)	Maximum Diameter (mm)			AEXF	AVXF
0.3	12/0.18	0.3054	0.7	0.5	1.8	1.9	61.1	64.4	6.7	5.6
0.5	20/0.18	0.5089	0.9	0.5	2.0	2.1	36.7	38.6	8.0	7.9
0.75	30/0.18	0.7634	1.1	0.5	2.2	2.3	24.4	25.8	-	10.6
0.85	34/0.18	0.8952	1.2	0.5	2.2	2.3	21.6	22.7	12.0	11.7
1.25	50/0.18	1.272	1.5	0.6	2.7	2.8	14.7	15.5	17.5	17.2
2	79/0.18	2.010	1.9	0.6	3.0	3.2	8.68	9.78	24.9	24.8
3	119/0.18	3.028	2.3	0.7	3.7	3.9	5.80	6.62	37.0	36.8
5	207/0.18	5.268	3.0	0.8	4.6	4.8	3.20	3.81	61.5	61.4
8	315/0.18	8.016	3.7	0.8	5.3	5.5	2.00	2.50	88.5	89
10	399/0.18	10.15	4.1	0.9	6.0	6.2	1.76	1.85	113.0	-
12	476/0.18	12.11	4.5	1.1	6.8	7.0	1.70	1.55	138.0	-
15	588/0.18	14.96	5.0	1.1	7.2	7.5	1.20	1.34	166.0	165.6
20	247/0.32	19.86	6.3	1.1	8.5	8.8	0.92	1.00	216.0	-
30	378/0.32	30.40	8.0	1.5	11.0	11.3	0.606	0.64	355.0	-
40	494/0.32	39.72	9.2	1.5	12.2	12.6	4.457	-	450.0	-
50	608/0.32	48.89	10.0	1.6	13.2	13.6	0.371	-	530.0	-
60	741/0.32	59.59	11.0	1.6	14.2	14.6	0.304	-	635.0	-
85	1,064/0.32	85.570	13	2	17.2	17.5	0.212	-	915.0	-
100	1,369/0.32	110.10	15	2	19	19.5	0.165	-	1150.0	-

Battery Cable AV Low-tension Cables for Automobiles



A : Low-tension cables for automobiles

V : Vinyl Insulated

STANDARD

JASO D611, HMC ES SPEC, KS C 3311(JIS C 3406)

USE

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

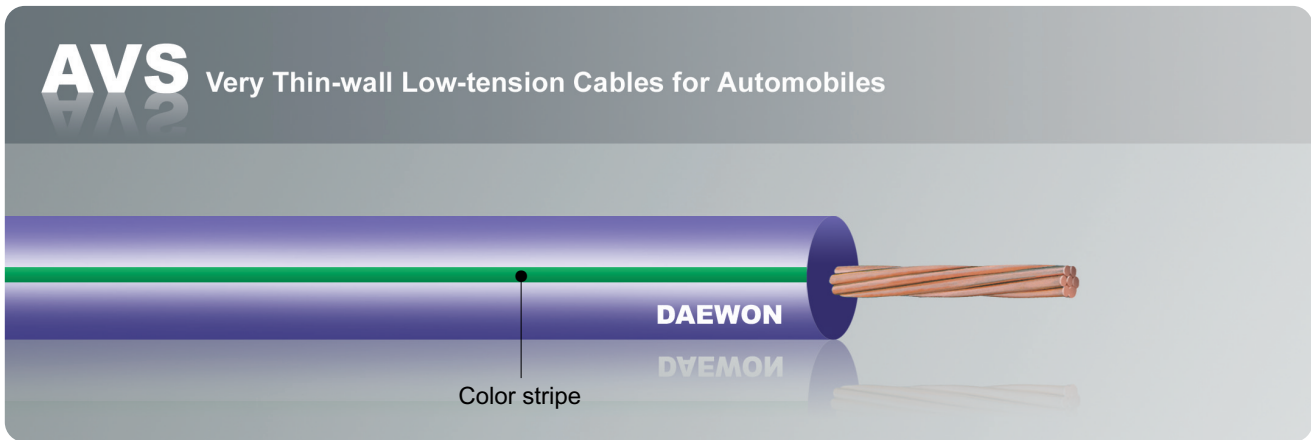
MATERIAL

Conductor : Annealed or tinned stranded copper

Insulation : Lead-free polyvinyl chloride

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross- sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
15	7/14/0.45	15.58	5.8	1.2	8.2	8.6	1.38	1000	181.3
20	7/18/0.45	20.03	6.6	1.3	9.2	9.7	0.901	1000	227.1
30	7/27/0.45	30.05	8.1	1.6	11.3	11.8	0.601	500	343.6
40	7/36/0.45	40.07	9.3	1.7	12.7	13.2	0.451	500	462.4
60	19/20/0.45	60.43	11.6	1.8	15.2	15.8	0.299	500	679.7
85	19/28/0.45	84.61	13.7	2	17.7	18.4	0.214	500	941.3

Automotive Wire & Cable



A : Low-tension cables for automobiles

V : Vinyl Insulated

S : Thin-wall type

STANDARD

JASO D611, HMC ES SPEC

USE

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

Thinner insulation than AV type while ensuring equivalent performance

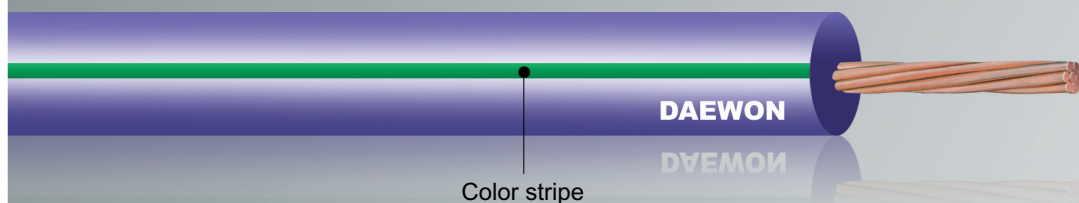
MATERIAL

Conductor : Annealed or tinned stranded copper

Insulation : Lead-free polyvinyl chloride

Norninal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross- sectional Area (mm ²)	Outer Diameter (mm)		Norninal Diameter (mm)	Maximum Diameter (mm)			
0.3	7/0.26	0.3717	0.8	0.3	1.4	1.5	50.2	500	6.3
0.5	7/0.32	0.5629	1	0.5	2	2.1	32.7	500	8.4
0.85	11/0.32	0.8846	1.2	0.5	2.2	2.3	20.8	500	12.0
1.25	16/0.32	1.286	1.5	0.5	2.5	2.6	14.3	500	16.1
2	26/0.32	2.091	1.9	0.5	2.9	3.1	8.81	300	24.3
3	41/0.32	3.297	2.4	0.6	3.6	3.8	5.59	300	37.8
5	65/0.32	5.227	3	0.7	4.4	4.6	3.52	200	58.6
8	50/0.32	7.952	3.7	0.8	5.3	5.5	2.32	200	87.7

Battery Cable AV-V Low-tension Cables for Automobiles



A : Low-tension cables for automobiles

V : Vinyl Insulated

V : Vibration Resistant

STANDARD

HMC ES SPEC

USE

Cable used in low voltage circuits in automobiles (Battery Cable)

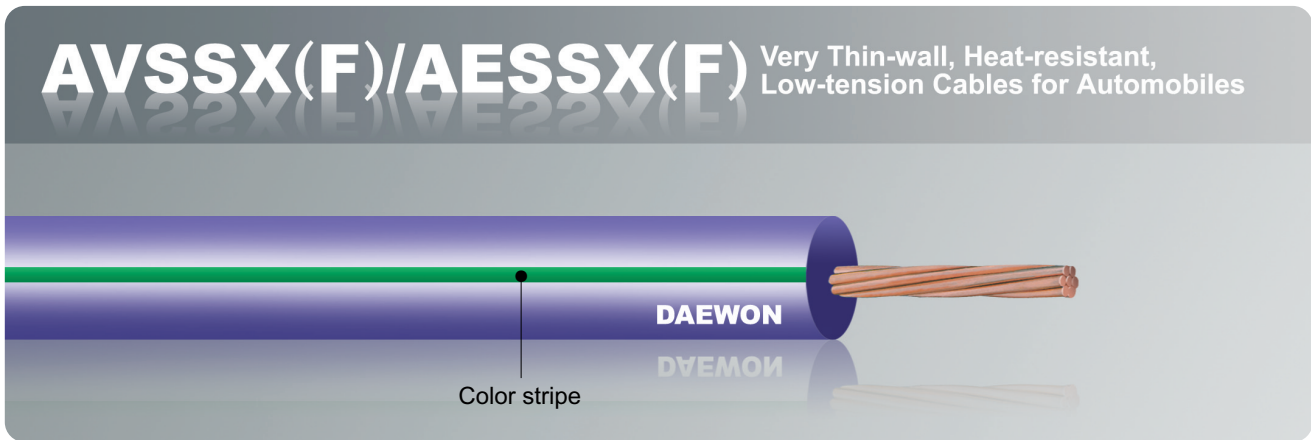
MATERIAL

Conductor : Annealed stranded copper

Insulation : Lead-free polyvinyl chloride

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross-sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
15	171/0.32	13.75	5.3	1	7.3	7.8	1.32	1000	157.6
20	247/0.32	19.86	6.3	1	8.3	8.8	0.915	1000	219.8
30	361/0.32	29.03	7.8	1	9.8	10.3	0.625	500	312.2
40	494/0.32	39.72	9.1	1	11.1	11.6	0.457	500	410.7

Automotive Wire & Cable



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

STANDARD

JASO D609, JASO D608, HMC ES SPEC

USE

Cable used in low voltage circuits in automobiles (vehicles and motorcycles)
Superior heat resistant with irradiated PVC

MATERIAL

Conductor : Annealed or tinned stranded copper

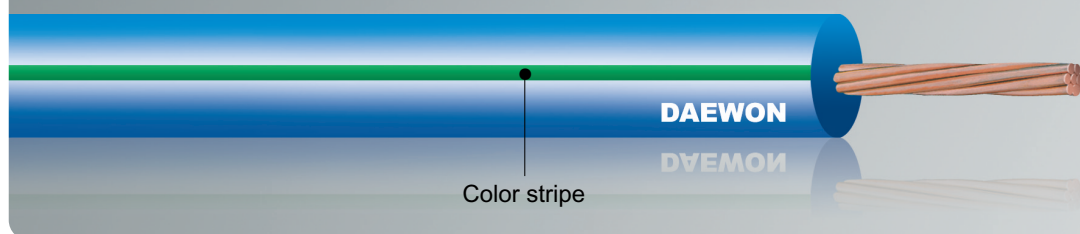
Insulation : AVSSX - Cross-linked lead free polyvinyl chloride

AESSX - Low halogen or halogen free cross- linked polyethylene Environment-friendly cable

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross-sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
0.3	7/0.26	0.3717	0.8	0.3	1.4	1.5	50.2	1000	5
0.3f	19/0.16	0.3821	0.8	0.3	1.4	1.5	48.8	1000	5
0.5	7/0.32	0.563	1	0.3	1.6	1.7	32.7	1000	7.1
0.5f	19/0.23	1.5387	1	0.3	1.6	1.7	36.7	1000	6.9
0.85	19/0.24	0.8595	1.2	0.3	1.8	1.9	21.7	1000	9.8
0.85f	37/0.17	0.8597	1.2	0.3	1.8	1.9	21.7	500	9.9
1.25	19/0.29	1.255	1.5	0.3	2.1	2.2	14.9	500	14.2
1.25f	37/0.21	1.2815	1.5	0.3	2.1	2.2	14.7	500	14.3
2	37/0.26	1.9644	1.8	0.4	2.6	2.7	9.5	500	22.2

"F"는 도체의 유연성을 뜻함. ("F" means flexibility of conductor.)

FLRY-A/B PVC Insulation Low-tension Cables for Automobiles



- FL** : Low-tension cables
- R** : Reduced thickness of Insulation
- Y** : Polyvinyl chloride insulated
- A** : Concentric stranded conductor
- B** : Bunched stranding

STANDARD

DIN 72551, ISO 6722

USE

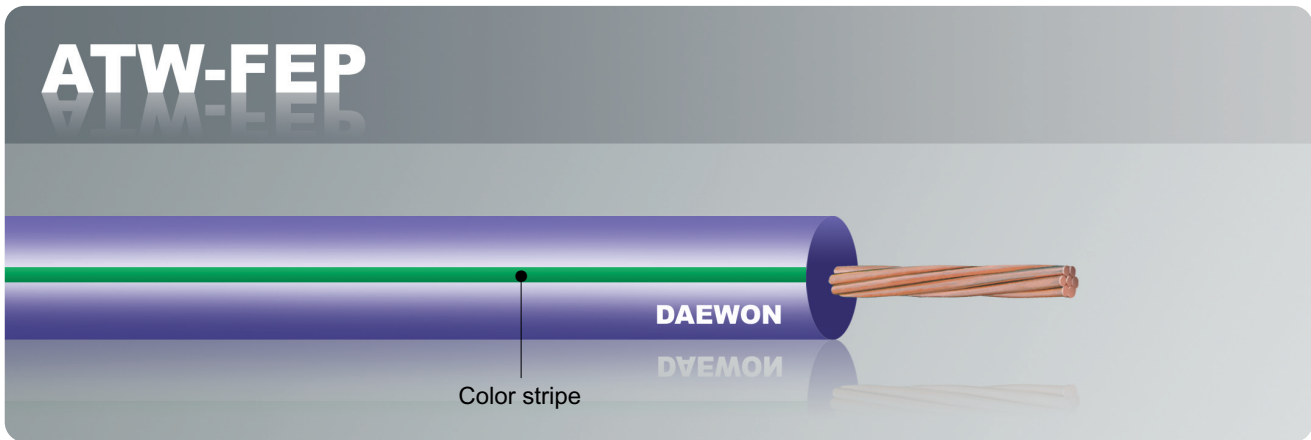
Cable used in low voltage circuits in automobiles (vehicles and motorcycles)
Equivalent to AVSS TYPE

MATERIAL

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

Conductor				Insulation			Conductor Resistance (Ω/km)	Standard Length (m)
Norninal Size (mm²)	Construction (No./mm)	Calculated Cross-sectional Area (mm²)	Maximum Outer Diameter (mm)	Minimum Thickness (mm)	Norninal Diameter (mm)	Maximum Diameter (mm)		
FLRY-A : Very thin-wall type, PVC insulated low-tension cable(Conductor type A)								
0.35	7/0.26	0.3716	0.8	0.25	1.2	1.3	52	1,000
0.5	19/0.19	0.5387	1.0	0.3	1.4	1.6	37.1	1,000
0.75	19/0.23	0.7894	1.2	0.3	1.7	1.9	24.7	1,000
1.0	19/0.26	1.0087	1.35	0.3	1.9	2.1	18.5	500
1.5	19/0.32	1.5280	1.7	0.3	2.2	2.4	12.7	500
2.0	19/0.37	2.0428	2.0	0.3	2.4	2.6	9.42	500
2.5	19/0.41	2.5084	2.2	0.35	2.7	3.0	7.6	500
FLRY-B : Very thin-wall type, PVC insulated low-tension cable(Conductor type B)								
0.35	12/0.21	0.4156	0.9	0.25	1.2	1.4	52	1,000
0.5	16/0.21	0.5541	1.0	0.3	1.4	1.6	37.1	1,000
0.75	24/0.21	0.8312	1.2	0.3	1.7	1.9	24.7	1,000
1.0	32/0.21	1.1083	1.35	0.3	1.9	2.1	18.5	500
1.5	30/0.26	1.5927	1.7	0.3	2.2	2.4	12.7	500
2.5	50/0.26	2.6546	2.2	0.35	2.7	3.0	7.6	500

Automotive Wire & Cable



A : Low-tension cables for automobiles

TW : Teflon Wire

FEP : Fluorinated ethylene propylene

STANDARD

HMC ES SPEC

USE

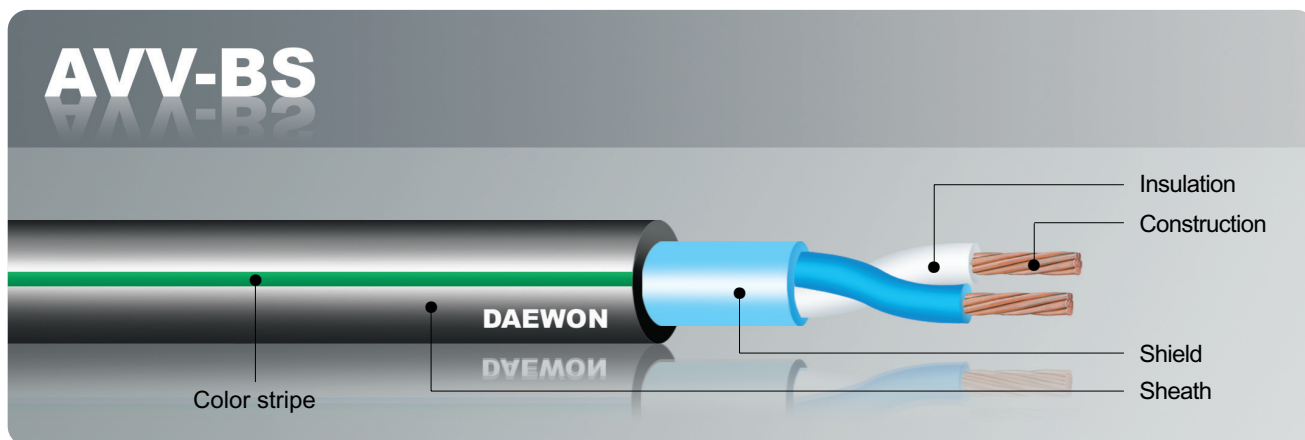
Used for wiring of car engine room, electrical and electronic components and other product up to 200°C temperature

MATERIAL

Conductor : Tin coated annealed stranded copper

Insulation : Teflon(FEP)

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross- sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
0.3	15/0.18	0.3817	0.8	0.3	1.4	1.5	51.5	1000	5.9
0.5	20/0.18	0.5089	0.9	0.3	1.6	1.7	38.6	1000	7.6
0.85	34/0.18	0.8652	1.2	0.3	1.8	1.9	25.8	1000	11
1.25	50/0.18	1.272	1.5	0.3	2.1	2.2	15.5	500	15.5
2	81/0.18	2.061	1.9	0.4	2.6	2.7	9.78	500	25
3	120/0.18	3.054	2.6	0.4	3.4	3.6	6.62	300	39
5	210/0.18	5.343	3.3	0.5	4.2	4.5	3.81	200	63



- A** : Low-tension cables for automobiles
- V** : Vinyl Insulated
- V** : Polyvinyl Chloride
- SB** : Shield Braid

STANDARD

JASO D611, HMC ES SPEC

USE

Shield braid vinyl wire used in low voltage circuits in automobiles(vehicles)

MATERIAL

Conductor : Annealed stranded copper

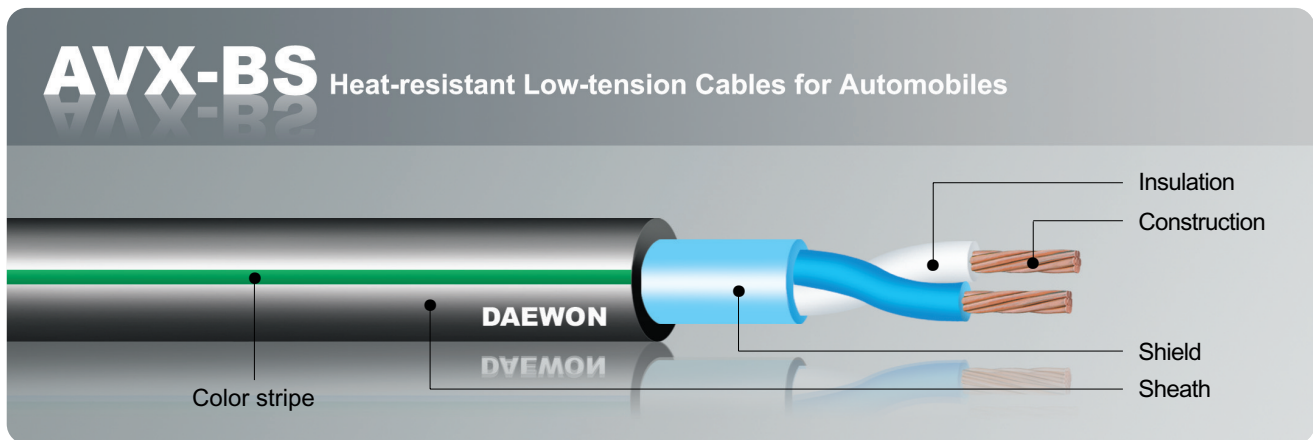
Insulation : Lead-free polyvinyl chloride

Shield : Tin coated annealed copper

Sheath : Polyvinyl chloride

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross-sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
0.5	7/0.32	0.5629	1.00	0.5	3.8	4.0	32.7	300	23
1.25	16/0.32	1.2867	1.50	0.5	4.5	4.7	14.3	300	34

Automotive Wire & Cable



- A** : Low-tension cables for automobiles
- V** : Vinyl Insulated
- X** : Cross-linked
- SB** : Shield Braid

STANDARD

JASO D608, HMC ES SPEC

USE

Shield braid vinyl wire used in low voltage circuits in automobiles(vehicles)
 Superior heat resistance with irradiated PVC
 Suitable for the consideration of the shielding characteristic

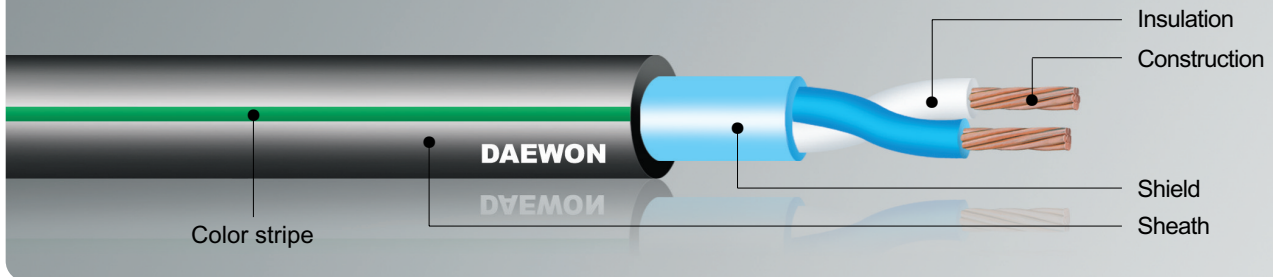
MATERIAL

Conductor : Annealed stranded copper
 Insulation : Cross-linked polyvinyl chloride
 Shield : Tin coated annealed copper
 Sheath : Polyvinyl chloride

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross- sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
0.5	7/0.32	0.5629	1.00	0.5	3.8	4.0	32.7	500	23
1.25	16/0.32	1.2867	1.50	0.5	4.7	4.9	14.3	300	35

AEX-BS

Heat-resistant Low-tension Cables for Automobiles



A : Low-tension cables for automobiles

EX : Cross-Linked Polyethylene

BS : Braided Shield

STANDARD

JASO D608, HMC ES SPEC

USE

Shield braid vinyl wire used in low voltage circuits in automobiles(vehicles)

Superior heat resistance with irradiated PVC

Suitable for the consideration of the shielding characteristic

MATERIAL

Conductor : Annealed stranded copper

Insulation : Cross-linked polyvinyl chloride

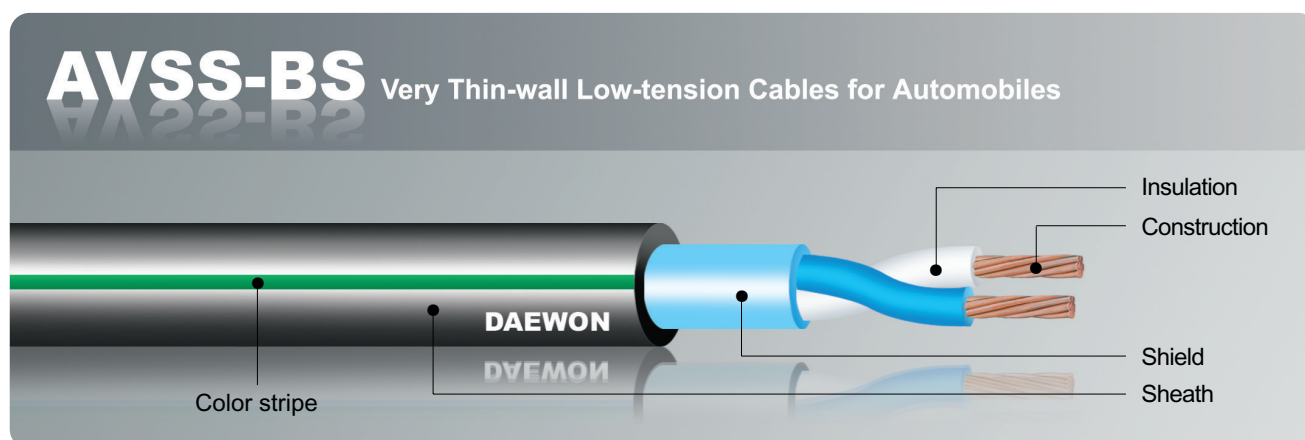
Shield : Tin coated annealed copper

Sheath : Polyvinyl chloride

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross-sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
0.5f	20/0.18	0.5089	1.00	0.6	4.0	4.2	0.0367	300	25
0.85f(2c)	34/0.18	0.8652	1.20	0.6	7.0	7.2	0.0208	200	62
1.25f	50/0.18	1.2723	1.50	0.6	4.5	4.7	0.01470	300	40

"F"는 도체의 유연성을 뜻함. ("F" means flexibility of conductor.)

Automotive Wire & Cable



A : Low-tension cables for automobiles

VSS : Very thin Insulation Vinyl

SB : Braided Shield

STANDARD

JASO D611, HMC ES SPEC

USE

Cable used in low voltage circuits in automobiles (vehicles)

Thinner insulation than AVS type

Suitable for the consideration of the shielding characteristic

MATERIAL

Conductor : Annealed stranded copper

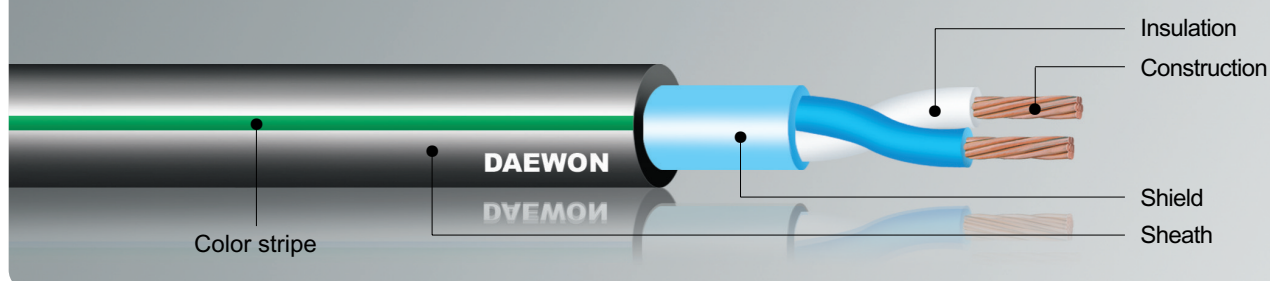
Insulation : polyvinyl chloride

Shield : Tin coated annealed copper

Sheath : Polyvinyl chloride

Nominal Size (mm ²)	Cores	Conductor		Thickness (mm)	Diameter	Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
		Construction (No./mm)	Outer Diameter (mm)					
0.3	1	7/0.26	0.8	0.3	3.2	50.2	300	17
	2	7/0.26	0.8	0.3	4.6	50.2	300	28
	3	7/0.26	0.8	0.3	4.8	50.2	200	35
	4	7/0.26	0.8	0.3	5.2	50.2	200	43
0.5	1	7/0.32	1.0	0.3	3.4	32.7	200	22
	2	7/0.32	1.0	0.3	5.0	32.7	200	36
	3	7/0.32	1.0	0.3	5.3	32.7	200	45
	4	7/0.32	1.0	0.3	5.7	32.7	200	55
0.85	1	19/0.24	1.2	0.3	3.5	21.7	200	25
	2	19/0.24	1.2	0.3	5.4	21.7	200	42
	3	19/0.24	1.2	0.3	5.6	21.7	200	58
	4	19/0.24	1.2	0.3	6.1	21.7	200	64
1.25	1	19/0.29	1.5	0.3	3.9	14.9	200	33
	2	19/0.29	1.5	0.3	6.0	14.9	200	56
	3	19/0.29	1.5	0.3	6.4	14.9	200	72
	4	19/0.29	1.5	0.3	6.9	14.9	200	90

AVSSXF-BS



A : Low-tension cables for automobiles
VSS : Very thin Insulation Vinyl
X : Cross-Linked
F : Flexible
SB : Braided Shield

STANDARD

JASO D609, HMC ES SPEC

USE

Cable used in low voltage circuits in automobiles

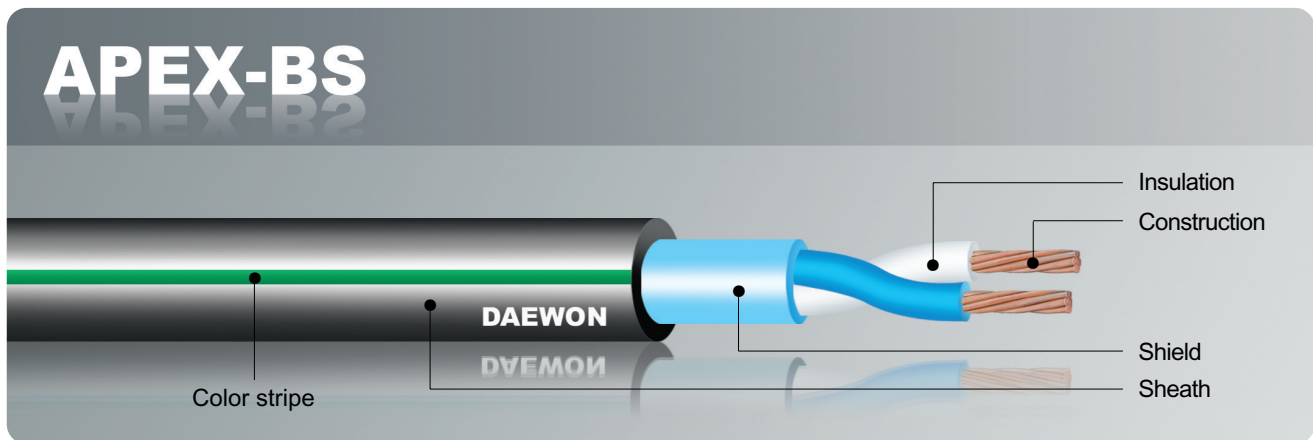
(vehicles)
 Suitable for the consideration of the flexibility and thermal resistance
 Suitable for the consideration of the shielding characteristic

MATERIAL

Conductor : Annealed stranded copper
 Insulation : Cross-linked polyvinyl chloride
 Shield : Tin coated annealed copper
 Sheath : Polyvinyl chloride

Nominal Size (mm ²)	Cores	Conductor		Thickness (mm)	Diameter	Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
		Construction (No./mm)	Outer Diameter (mm)					
0.3	1	19/0.16	0.8	0.3	3.0	49.40	300	16
	2				4.4	49.40	300	24
	3				4.6	49.40	200	30
	4				5.0	49.40	200	36
0.5	1	19/0.19	1.0	0.3	3.2	35.03	200	18
	2				4.8	35.03	200	29
	3				5.2	35.03	200	39
	4				5.6	35.03	200	47
0.75	1	19/0.23	1.2	0.3	3.4	23.88	200	22
	2				5.4	23.88	200	38
	3				5.7	23.88	200	49
	4				6.1	23.88	200	61
0.85	1	37/0.172	1.2	0.3	3.4	22.13	200	22
	2				5.4	22.13	200	38
	3				5.7	22.13	200	49
	4				6.1	22.13	200	61

Automotive Wire & Cable



- A** : Low-tension cables for automobiles
PEX : Low-Stray Capacitance Cross-Linked Polyethylene
SB : Braided Shield

STANDARD

JASO D608, HMC ES SPEC

USE

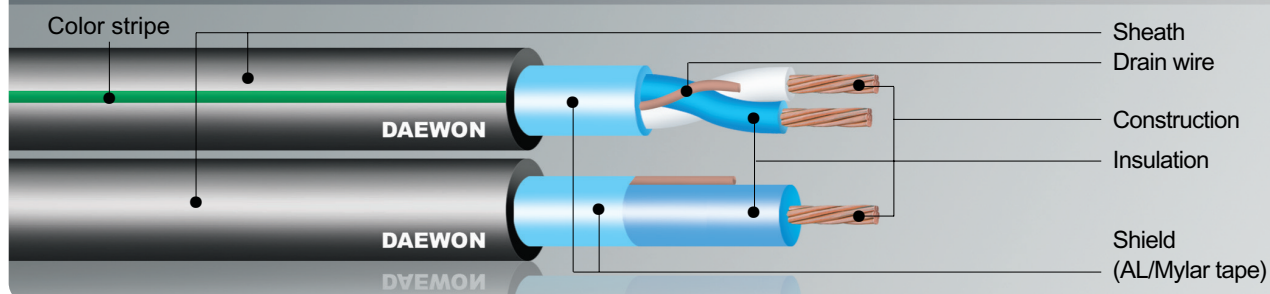
Cable used in low voltage circuits in automobiles(vehicles)
 Superior heat resistance with irradiated PE
 Suitable for the consideration of the shielding characteristic

MATERIAL

Conductor : Annealed stranded copper
 Insulation : Cross-linked polyvinyl chloride
 Shield : Tin coated annealed copper
 Sheath : Polyvinyl chloride

Norninal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross- sectional Area (mm ²)	Outer Diameter (mm)		Norninal Diameter (mm)	Maximum Diameter (mm)			
0.5	20/0.18	0.5089	0.93	0.6	3.7	3.9	0.0367	300	21
0.85	34/0.18	0.8652	1.21	0.6	4.2	4.4	0.0216	300	27
1.25	50/0.18	1.2723	1.5	0.6	4.5	4.7	0.0147	300	31

AVSSF-ALS



A : Low-tension cables for automobiles
VSS : Very thin Insulation Vinyl
F : Flexible
ALS : Al-Mylar Tape

STANDARD

JASO D611, HMC ES SPEC

USE

Cable used in low voltage circuits in automobiles (vehicles)

Suitable for the consideration of the shielding characteristic

Shielding wire is consist of drain wire included Al-Mylar tape around core

MATERIAL

Conductor : Annealed stranded copper

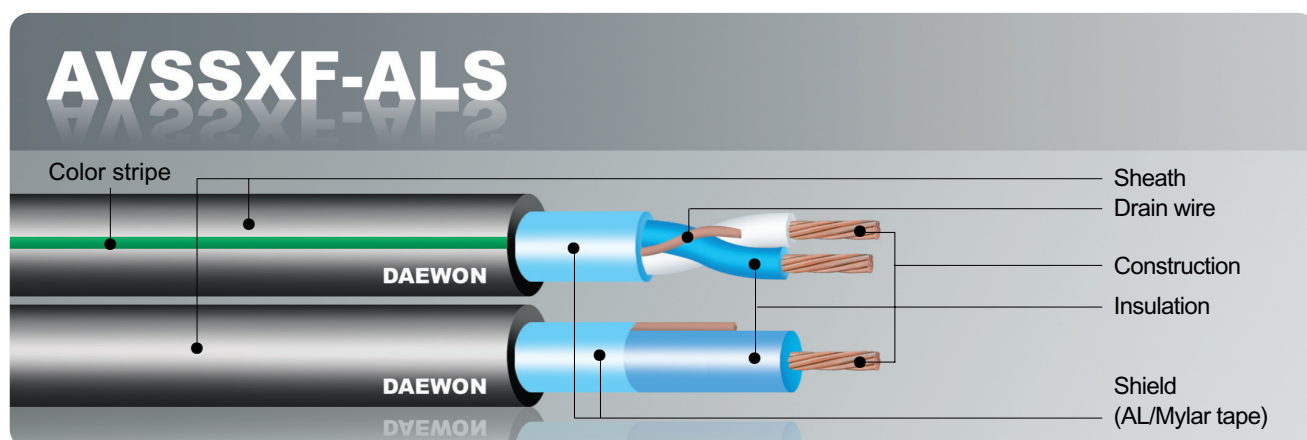
Insulation : Polyvinyl chloride

Shield : Al-Mylar tape

Sheath : Polyvinyl chloride

Nominal Size (mm ²)	Cores	Conductor		Thickness (mm)	Diameter	Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
		Construction (No./mm)	Outer Diameter (mm)					
0.3	1	19/0.16	0.8	0.3	3.4	49.40	300	17
	2				3.9	49.40	300	24
	3				4.1	49.40	200	29
	4				4.4	49.40	200	35
0.5	1	19/0.19	1.0	0.3	3.6	35.03	200	20
	2				4.3	35.03	200	28
	3				4.7	35.03	200	38
	4				5.1	35.03	200	46
0.75	1	19/0.23	1.2	0.3	3.8	23.88	200	23
	2				4.9	23.88	200	38
	3				5.1	23.88	200	49
	4				5.6	23.88	200	60
1.25	1	37/0.21	1.5	0.3	4.1	15.20	200	28
	2				5.5	15.20	200	48
	3				5.8	15.20	200	64
	4				6.3	15.20	200	80

Automotive Wire & Cable



A : Low-tension cables for automobiles

VSS : Very thin Insulation Vinyl

X : Cross-Link

F : Flexible

ALS : Al-Mylar Tape

STANDARD

JASO D609, HMC ES SPEC

USE

Cable used in low voltage circuits in automobiles (vehicles)

Superior heat resistant with irradiated PVC

Suitable for the consideration of the flexibility and shielding characteristic

Shielding wire is consist of drain wire included Al-Mylar tape around core

MATERIAL

Conductor : Annealed stranded copper

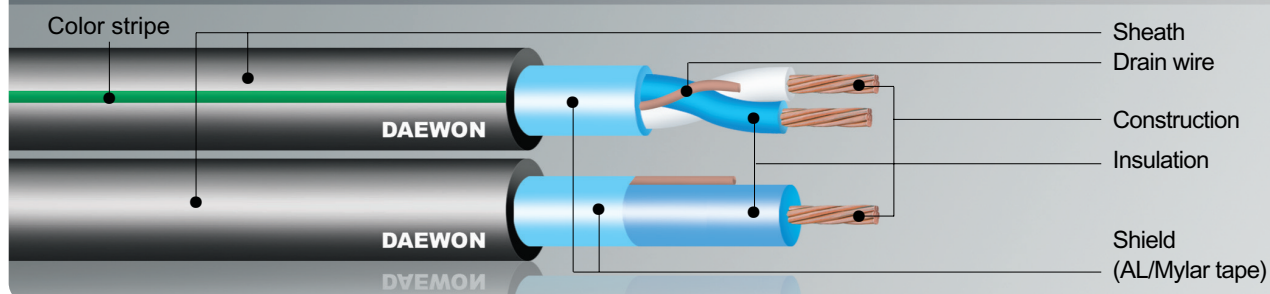
Insulation : Cross-linked polyvinyl chloride

Shield : Al-Mylar tape

Sheath : Polyvinyl chloride

Nominal Size (mm ²)	Cores	Conductor		Thickness (mm)	Diameter	Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
		Construction (No./mm)	Outer Diameter (mm)					
0.3	1	19/0.16	0.8	0.3	3.4	49.40	300	17
	2				3.9	49.40	300	24
	3				4.1	49.40	200	29
	4				4.4	49.40	200	35
0.5	1	19/0.19	1.0	0.3	3.6	35.03	200	20
	2				4.3	35.03	200	28
	3				4.7	35.03	200	38
	4				5.1	35.03	200	46
0.75	1	19/0.23	1.2	0.3	3.8	23.88	200	23
	2				4.9	23.88	200	38
	3				5.1	23.88	200	49
	4				5.6	23.88	200	60
1.25	1	37/0.21	1.5	0.3	4.1	15.20	200	28
	2				5.5	15.20	200	48
	3				5.8	15.20	200	64
	4				6.3	15.20	200	80

AESSXF-ALS



A : Low-tension cables for automobiles
ESS : Very thin Insulation Ethylene
X : Cross-Link
F : Flexible
ALS : Al-Mylar Tape

STANDARD

JASO D609, HMC ES SPEC

USE

Cable used in low voltage signal circuits in automobiles(vehicles)

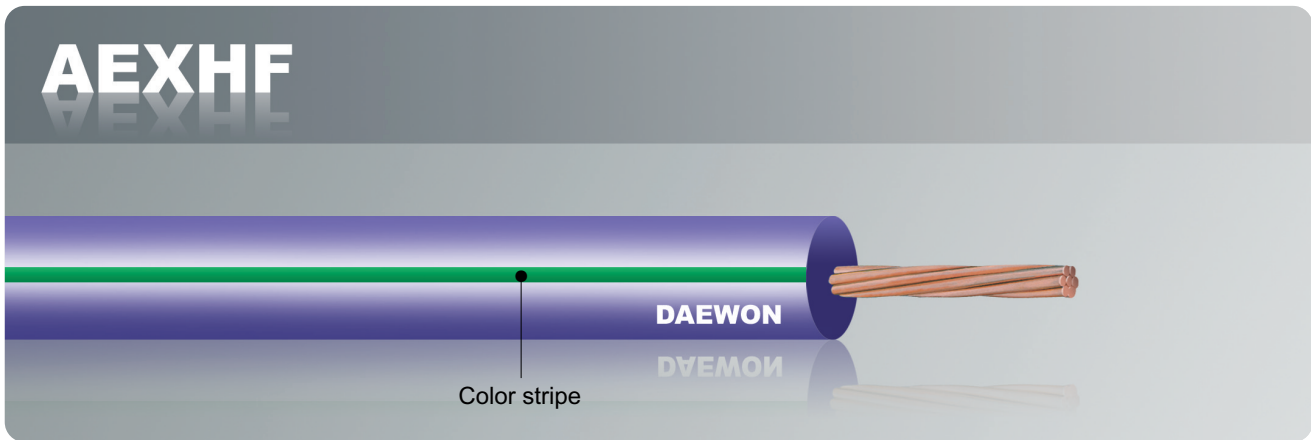
Superior heat resistant with irradiated PE
 Suitable for the consideration of the flexibility and shielding characteristic
 Shielding wire is consist of drain wire included Al-Mylar tape around core

MATERIAL

Conductor : Annealed stranded copper
 Insulation : Cross-linked Polyvinyl chloride
 Shield : Al-Mylar tape
 Sheath : Polyvinyl chloride

Nominal Size (mm ²)	Cores	Conductor		Thickness (mm)	Diameter	Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
		Construction (No./mm)	Outer Diameter (mm)					
0.3	1	19/0.16	0.8	0.3	3.4	49.40	300	17
	2				3.9	49.40	300	24
	3				4.1	49.40	200	29
	4				4.4	49.40	200	35
0.5	1	19/0.19	1.0	0.3	3.6	35.03	200	20
	2				4.3	35.03	200	28
	3				4.7	35.03	200	38
	4				5.1	35.03	200	46
0.75	1	19/0.23	1.2	0.3	3.8	23.88	200	23
	2				4.9	23.88	200	38
	3				5.1	23.88	200	49
	4				5.6	23.88	200	60
1.25	1	37/0.21	1.5	0.3	4.1	15.20	200	28
	2				5.5	15.20	200	48
	3				5.8	15.20	200	64
	4				6.3	15.20	200	80

Automotive Wire & Cable



- A** : Low-tension cables for automobiles
- E** : Polyethylene insulated
- X** : Cross-Link
- H** : Heat resistant
- F** : Flexible

STANDARD

JASO D 608(Reference), HMC ES SPEC

USE

Wire harness of low-tension electric circuits for automobiles especially used for circuits requiring heat resistance and cold resistance

MATERIAL

Conductor : Tinned stranded copper

Insulation : Cross-linked polyethylene(150℃)

Nominal Size (mm ²)	Conductor			Thickness (mm)	Diameter		Conductor Resistance (Ω/km)	Standard Length (m)	Standard Weight (kg/km)
	Construction (No./mm)	Calculated Cross- sectional Area (mm ²)	Outer Diameter (mm)		Nominal Diameter (mm)	Maximum Diameter (mm)			
0.3	12/0.18	0.3054	0.72	0.5	1.8	1.9	0.064	1000	5.8
0.5	20/0.18	0.5089	0.8	0.5	2	2.2	0.0386	1000	8.0
0.75	30/0.18	0.7634	1.2	0.5	2.2	2.4	0.0258	1000	10.8
0.85	34/0.18	0.8652	1.2	0.5	2.2	2.4	0.0227	1000	11.7
1.25	50/0.18	1.272	1.5	0.6	2.7	2.9	0.0155	500	17.2
2	79/0.18	2.01	1.9	0.6	3.1	3.4	0.0101	500	25.3
3	119/0.18	3.028	2.4	0.7	3.8	4.1	0.00648	300	37.0
5	207/0.18	5.267	3.0	0.8	4.6	4.9	0.00373	200	62.5
8	315/0.18	8.016	3.7	0.8	5.3	5.6	0.00245	200	90.0

품질경영시스템 인증서



대원전선(주)

본사 및 공장 : 충청남도 예산군 고덕면 오추리 134-7번지

인증등록일 2007. 6. 1
인증만료일 2009. 3. 20
인증번호 TS-02315-(1)

한국품질재단 한국품질인증센터는 ISO/TS 16949:
2002 인증기관에 대한 인증제도 규칙(제2판)에
따라서 심사하였으며 위 회사의 품질경영시스템이
아래에 기재된 품질규격과 요구사항에 적합함을
인증함

규 격

ISO/TS 16949:2002

인증범위

자동차용 저압전선의 생산

[적용제외요구사항 : 7.3 제품설계 및 개발]



IATF Certificate Number: 0050279

재단법인 한국품질재단 한국품질인증센터

대표 김재동



www.kfq.or.kr

13F, Woolim Lion's Valley Bldg. B, 371-28, Gasan-Dong, Geumcheon-Gu, Seoul 153-786, Korea

MAIN PRODUCTS

Automobile Cable

- AVS(Low Tension Cable with reduced Outside Diameter for Automobile)
- AVSS,AVSSF(Very Thin Low Tension Cable with Reduced Outside Diameter for Automobile)
- AVX(F),AEX(F) (Heat Resistant Low Tension Cable for Automobile)
- AVSSX,AESSX

Coaxial Cable

Shield Cable

- AVXF-SB(Low Voltage Shield Cable for Automobile)

Special Appliance Wire

- AV(Low-Voltage PVC INSULATION Wire For Automobile)
- HBC(LOW-Voltage Bond vinyl Insulation 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 Service 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 Outdoor ACSR Conductor XLPE Insulated Wire(ACSR-OC)
- 6600V Outdoor Aluminium Conductor XLPE Insulated Wire(HAL-OC)
- PVC Cord for Electrical Apparatus(VF)
- PVC Insulated Cab typed 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 Screened Stalpath 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-metallic 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