

송배전선 / Aluminium Wire

강심 알루미늄연선
(ACSR) Aluminum Conductors, Steel Reinforced

알루미늄 피복강심 알루미늄 연선
(ACSR/AW) Aluminum Conductors Aluminum-Clad Steel Reinforced Wire

알루미늄 피복강심 알루미늄 절연전선
(22.9kV ACSR/AW-OC) Aluminum, Al-Clad, Steel-reinforced(ACSR/AW)
Couductor Weather-Resistant Insulation Wires

트래킹억제형 수밀 알루미늄 피복강심 알루미늄 절연전선
(22.9kV ACSR/AW-TR/OC) Aluminum, Al-Clad, Steel-reinforced(ACSR/AW)
Couductor Tree Resistant, Weather-Retardant Insulation Wires

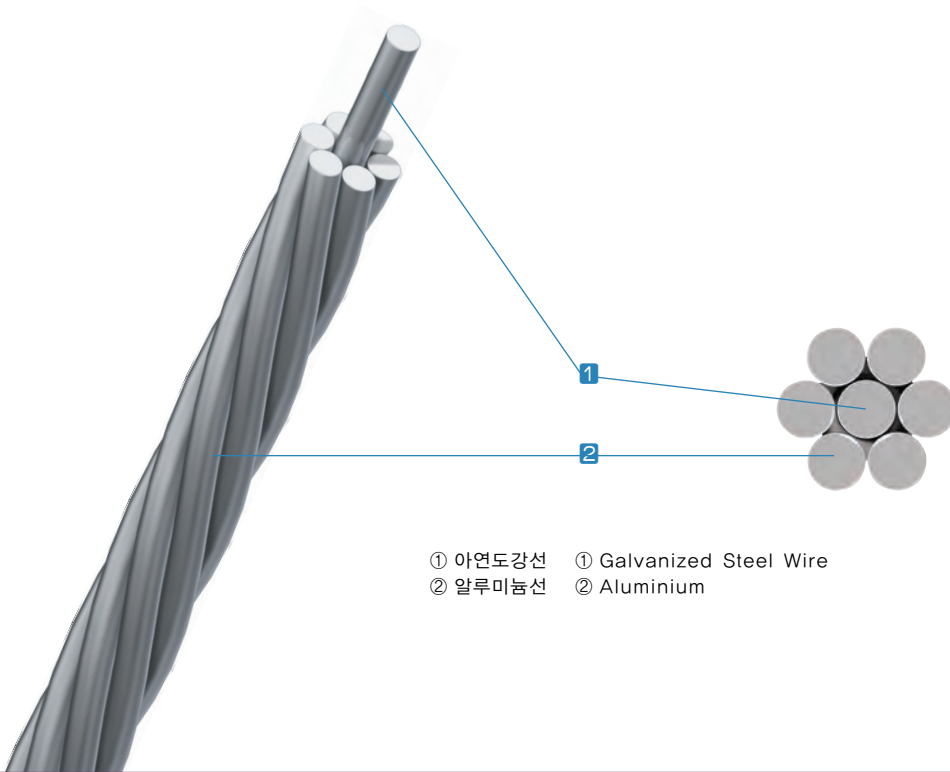


KUMHWA
주식회사 금화전선



강심 알루미늄연선

(ACSR) (ACSR) Aluminum Conductors, Steel Reinforced



■ 용도

- 가공 전선로에 사용한다.

■ USE

- This wire is used for high overhead transmission lines.

■ 구조

1. 도 체 : 강심알루미늄연선
2. 적용규격 : KS C 3103
3. 제품인증 : 한국산업표준(KS)

■ CONSTRUCTION

1. Conductor : Aluminium wire
2. Standard : KS C 3103
3. Certificate : Korean Industrial Standards

▶ KS C : 3113

공칭단면적 Nominal Cross Sectional Area mm ²	소선/소선지름		완 성 품 바깥지름(약) Outside Diameter mm	인장하중 Tensile Road kgf	허용전류 A			개산중량 Weight kg/km	도체저항 Conductor Resistance at 20℃ Ω/km	표준길이 Standard Length m
	알루미늄 Aluminum	알복강선 mm			40℃	30℃	20℃			
19	6/2.0	1/2.0	6.0	698	112	124	135	76.12	1.52	1000
32	6/2.6	1/2.6	7.8	1,140	155	172	188	128.6	0.899	1000
58	6/3.5	1/3.5	10.5	1,980	222	248	271	233.1	0.497	1000
80	6/4.2	1/4.2	12.6	2,770	-	-	-	335.5	0.345	1000
95	6/4.5	1/4.5	13.5	3,180	296	308	362	385.2	0.301	1300
*97	12/3.2	7/3.2	16.0	10,600	310	348	381	708.9	0.301	1300
*120	12/3.5	7/3.5	17.5	9,590	355	398	436	845.6	0.301	1300
120	30/2.3	7/2.3	16.1	5,550	355	398	436	573.7	0.258	1300
160	30/2.6	7/2.6	18.2	6,990	410	461	505	732.8	0.182	1300
200	30/2.9	7/2.9	20.3	8,620	473	532	583	911.7	0.147	1400
240	30/3.2	7/3.2	22.4	10,210	536	603	662	1,110	0.12	1400
330	26/4.0	7/3.1	25.3	10,930	643	825	796	1,320	0.0888	1000
410	26/4.5	7/3.5	28.5	13,890	749	845	929	1,673	0.0702	1000
520	54/3.5	7/3.5	31.5	15,600	851	960	1057	1,969	0.0559	1000
610	54/3.8	7/3.8	34.2	18,150	947	1070	1177	2,320	0.0474	1000

* : 한국전력공사의 규격입니다.

송배전선

알루미늄 피복강심 알루미늄 연선

(ACSR/AW) Aluminum Conductors Aluminum-Clad Steel Reinforced Wire

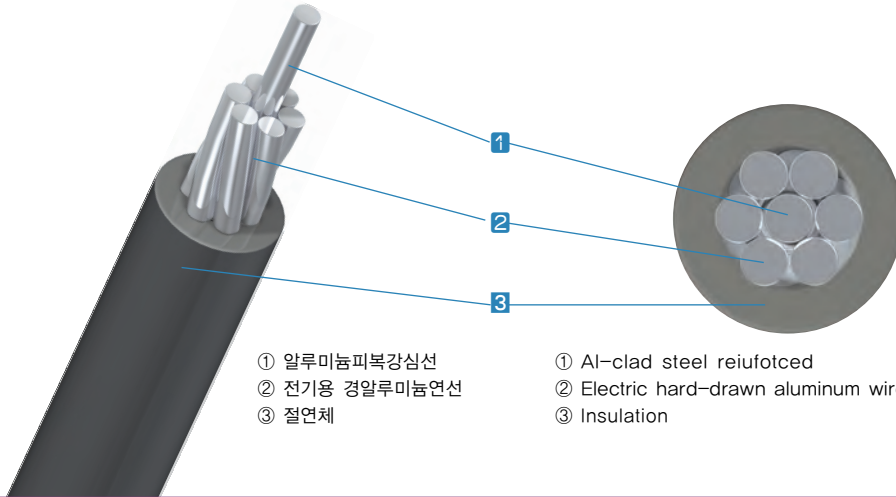
공칭단면적 Nominal Cross Sectional Area mm ²	소선수/지름 Number & Diameter of Wires mm		계산단면적 Calculated Cross Sectional Area mm ²		인장하중 Mini Tensile Road kgf	바깥지름 Outside Diameter mm		전기저항 Max Conductor Resistance at 20℃ Ω/km	개산중량 Weight kg/km	길 이 Length m
	AL	AW	AL	AW		AL	AW			
32	6/2.6	1/2.6	31.85	5.309	1,140	7.8	2.6	0.852	122.2	1,000
58	6/3.5	1/3.5	57.73	9.621	1,980	10.5	3.5	0.471	221.5	1,000
65	12/2.6	7/2.6	63.71	37.17	5,500	13.0	7.8	0.3775	421.4	"
95	6/4.5	1/4.5	95.40	15.90	3,180	13.5	4.5	0.2848	368.1	"
97	12/3.2	7/3.2	96.5	56.29	10,600	16.0	9.6	0.2492	638.4	"
120	12/3.5	7/3.5	115.45	67.35	9,590	17.5	10.5	0.2086	763.7	"
160	30/2.6	7/2.6	159.3	37.16	6,990	18.2	7.8	0.169	687.8	"
240	30/3.2	7/3.2	241.3	56.29	10,210	22.4	9.6	0.111	1,042	"
330	26/4.0	7/3.1	326.8	52.84	10,930	25.3	9.3	0.0842	1,255	"
410	26/4.5	7/3.5	413.4	67.35	13,890	28.5	10.5	0.0666	1,592	"
480	45/3.7	7/2.47	483.84	33.54	11,800	29.61	7.41	0.0586	1,564	"
520	54/3.5	7/3.5	519.5	67.35	15,600	31.5	10.5	0.0536	1,848	1,000 (2,000)

※ AL : Aluminum. AW : Aluminum-Clad Steel



알루미늄 피복강심 알루미늄 절연전선

(22.9kV ACSR/AW-OC) Aluminum, Al-Clad, Steel-reinforced(ACSR/AW)Conductor Weather-Resistant Insulation Wires



■ 용도

고압 가공 전선로에 사용한다.

■ USE

This wire is used for high voltage overhead trasmission lines

■ 구조

- 도체 : 전기용 경알루미늄선
알루미늄 피복강심
- 절연체 : XLPE
- 절연체색상 : 흑색
- 적용규격 : ES 6145-0006
- 제품인증 : 한국전력인증

■ CONSTRUCTION

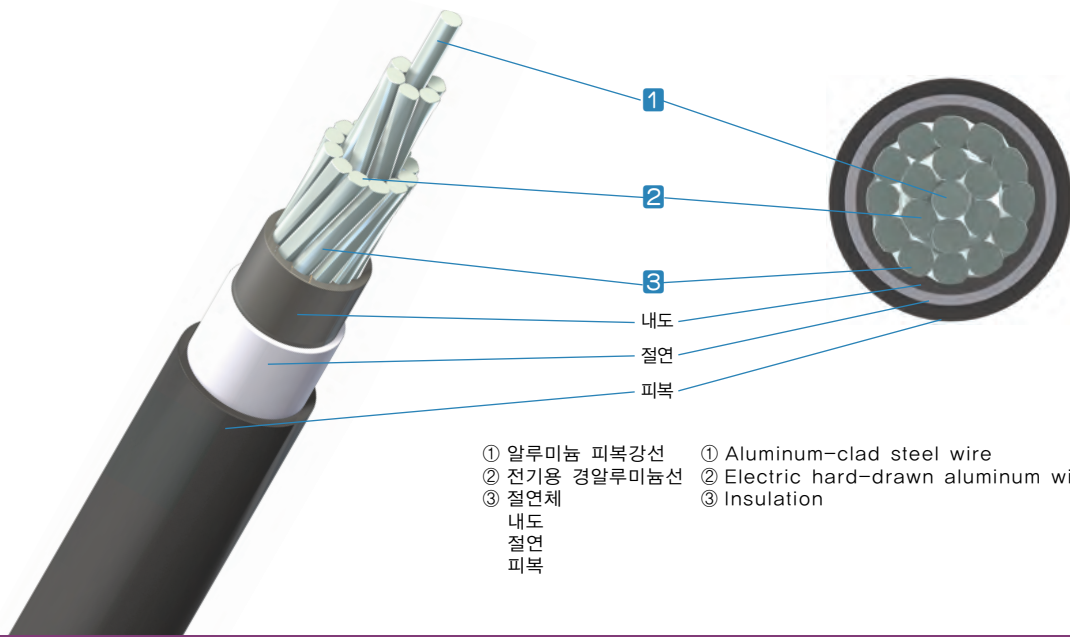
- Conductor : Hard-Drawn Aluminium Stranded Conductors, Aluminium-Clad steel reinforced Wire
- Insulation : XLPE
- Color of insulation : Black
- Standard : ES 6145-0006
- Certificate : Korea Electric power corporation

▶ 알루미늄 피복 강심 알루미늄 절연전선 (ACSR/AW-OC)

전압 Voltage	단면적 Nominal Cross Sectional Area mm ²	도체 Conductor			절연 두께 Insulation Thickness mm	완성 외경 Outside Diameter of wire mm	도체 저항 Max. Conductor Resistance at 20°C Ω/km	시험 전압 Test Voltage kV	절연 저항 Min. Insulation Resistance at 20°C MΩ · km	인장 하중 Conductor Min. Tensile Road kgf	개산 중량 Weight kg/km	표준 길이 Standard Length m
		소선수 No. & Dia. of Wire (Al) No/mm	소선수 No. & Dia. of Wire (St) No/mm	외경 Outside Diameter mm								
22.9kV	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	0.302	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

트래킹억제형 수밀 알루미늄 피복강심 알루미늄 절연전선

(22.9kV ACSR/AW-TR/OC) Aluminum, Al-Clad, Steel-reinforced(ACSR/AW)Conductor Tree Retardant, Weather-Resistant Insulation Wires



송배전선

■ 용도

특고압 가공배전선로에 사용하는 단심의 트래킹 억제형 수밀 알루미늄 피복강심 알루미늄 절연전선으로 내구성이 매우 강하다

■ USE

Single core tracking that's used in extra-high voltage overhead feeder cable. Suppressive watertight aluminum conductor aluminum-clad steel reinforced XLPE insulated wire with strong durability.

■ 적용규격

한전 ES 6145-0021 또는
금화전선 표준사양

■ Application Standard

Electrical Standard ES 6145-0021 or
KUMHWA Cable's standard specification

▶ 트래킹억제형 수밀 알루미늄 피복강심 알루미늄 절연전선 (ACSR/AW-TR/OC)

공칭단면적 Nominal Cross Sectional Area mm ²	도체 Conductor			절연체두께 XLPE Insulation Thickness mm			완성품 외경 Approx Outer Diameter mm	도체저항 Max. Conductor Resistance at 20°C Ω/Km	교류파괴 전압 Test Voltage KV	최소 인장하중 Min. Tensile Load kgf	개산 중량 Weight Kg/Km	절연저항 Min. Insulation Resistance at 20°C MΩ·km	1조의 길이 Standard Length m
	구성		외경 Outside Diameter mm	내도	절연	피복							
	소선수(AL) /형상	ST mm											
58	6/SB	1/3.5	9.7	0.6	1.2	1.2	15.7	0.484	60	1,900	360	1,500	600 1,000
95	6/SB	1/3.5	12.0	0.6	1.4	1.5	19.0	0.302	60	2,360	520	1,500	600 1,000
160	18/SB	1/3.2	15.4	0.6	1.7	1.7	23.4	0.183	72	3,080	750	1,500	600 1,000
240	18/SB	1/4.0	18.9	0.6	1.7	1.7	27.0	0.123	72	4,500	1,040	1,000	600 1,000

※ 1조의 길이 600m 소규모 공사용이고, 1,000m는 대규모 공사용임.