

High Temperature & Low Sag Aluminum Alloy Conductor



A watercolor illustration of a modern building with greenery and colorful circles. The building is a tall, white structure with multiple floors, each featuring a balcony with various plants and flowers. The building is surrounded by lush green trees and bushes. In the background, there are more buildings and a clear blue sky. Four large, overlapping circles in pink, blue, yellow, and green are positioned in the upper right quadrant of the image. Each circle contains text describing a different business area.

Energy Cables & Systems

LS Cable-setting the standards
in power solution business

Industrial Materials

Realizing a convenient future
with cutting-edge materials

Telecommunications

Providing cutting-edge,
innovative technologies for a
ubiquitous network

Integrated Modules & Cable Systems

Providing the best customized
cable solutions for
all environments



Total Solution Provider for Electric Power and Telecommunication Industries

LS Cable, the longtime de facto holding company of LS Group, officially transformed into a holding company in July of 2008. The company's operations now encompass a total solution for electric power and telecommunication industries.

The latest change in corporate structure comes as the company is accelerating efforts to improve management efficiency in rapidly expanding markets. The move also results from efforts to effect a more responsible and transparent management structure. Management is now prepared to take more aggressive action to enhance our businesses and to identify new growth engines. The holding company will take the lead in fostering new growth engines and in identifying lucrative investment opportunities, while the company's other business units will focus on improving management and on making operations more efficient. With the continued support of the holding company, LS Cable will spearhead efforts to strengthen our business expertise, corporate competitiveness and management.

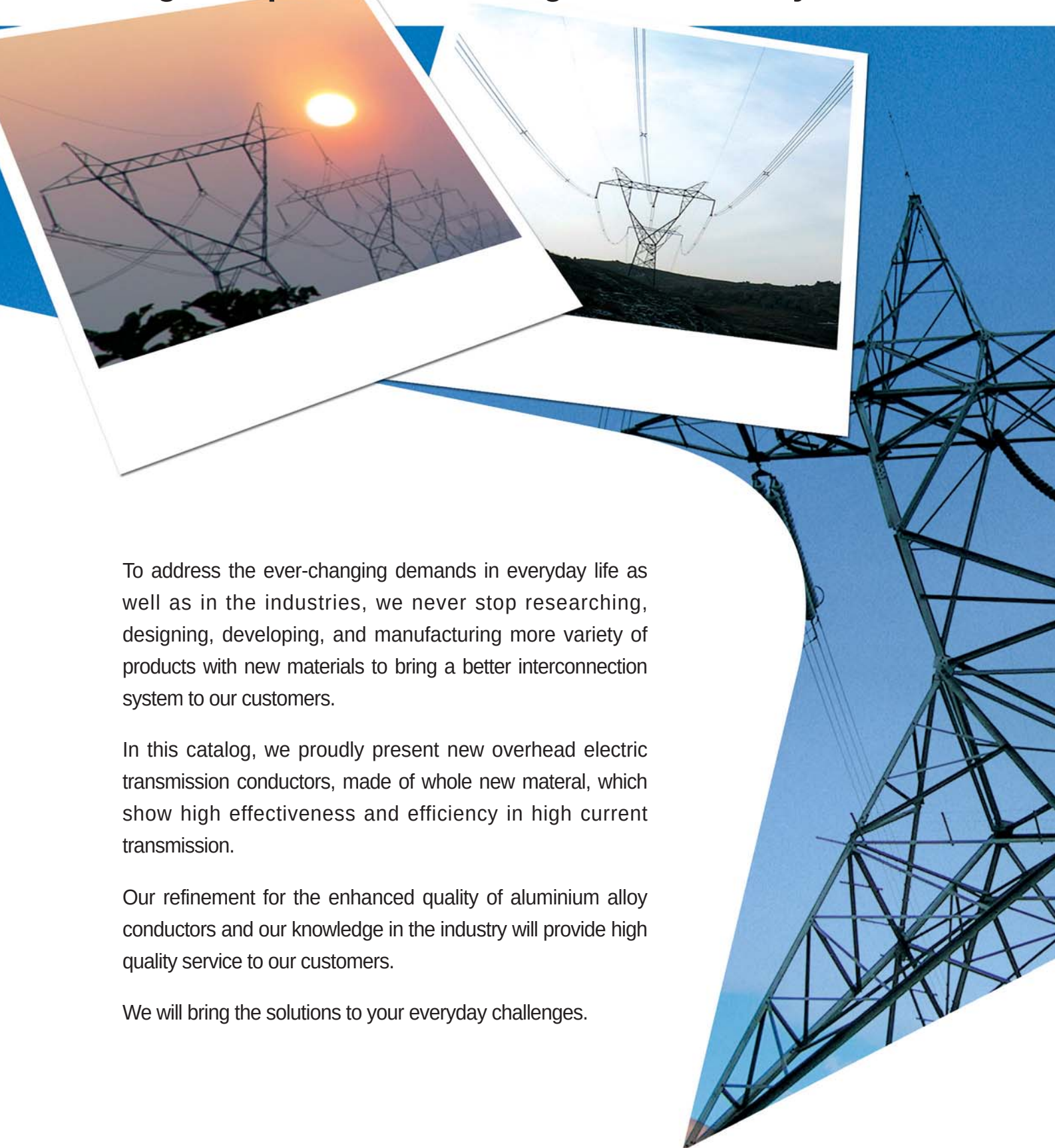
Toward the Global Leading Cable Company

In August of 2008 LS Cable acquired Superior Essex, North America's largest cable company, making LS Cable the third-largest player in the global cable industry. Superior Essex's flagship line of magnet wires and telecommunication cables further strengthened LS Cable's product lineup, which had focused on power cables, fiber optic cables and industrial materials. Superior Essex's extensive North America and European production and distribution networks will help LS Cable cement a presence in the region and bring the company one step closer to becoming a full-fledged global enterprise.

Superior Essex

Superior Essex Inc., a FORTUNE 1,000 company, is one of the largest wire and cable manufacturers in the world. The company manufactures and supplies a broad portfolio of wire and cable products for the communications, energy, automotive, industrial, and commercial & residential end-markets. It is a leading manufacturer of magnet wire, fabricated insulation products, and copper and fiber optic communications wire and cable. It is also a leading distributor of magnet wire, insulation and related products.

High Temperature & Low Sag Aluminum Alloy Conductor

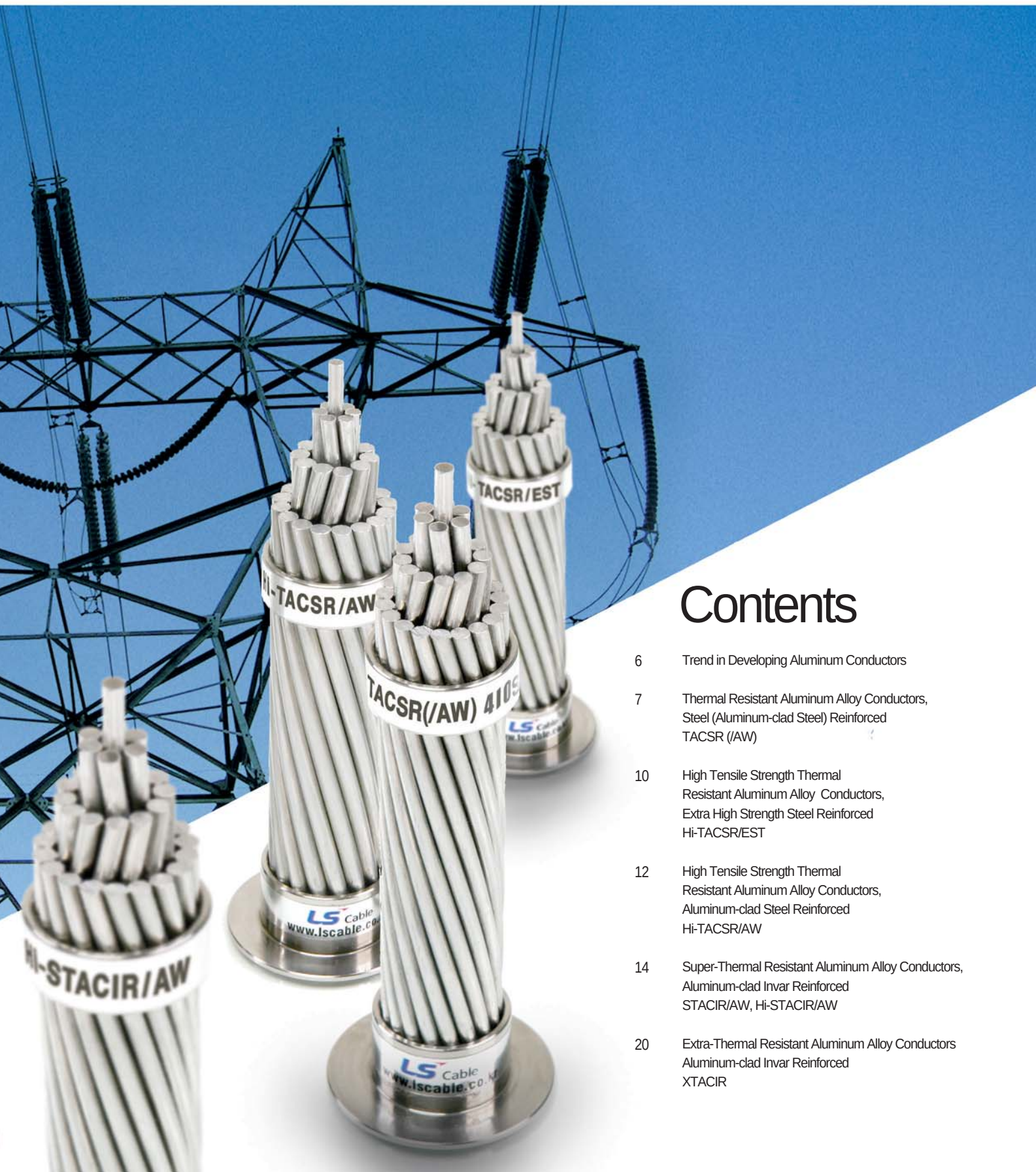


To address the ever-changing demands in everyday life as well as in the industries, we never stop researching, designing, developing, and manufacturing more variety of products with new materials to bring a better interconnection system to our customers.

In this catalog, we proudly present new overhead electric transmission conductors, made of whole new material, which show high effectiveness and efficiency in high current transmission.

Our refinement for the enhanced quality of aluminium alloy conductors and our knowledge in the industry will provide high quality service to our customers.

We will bring the solutions to your everyday challenges.



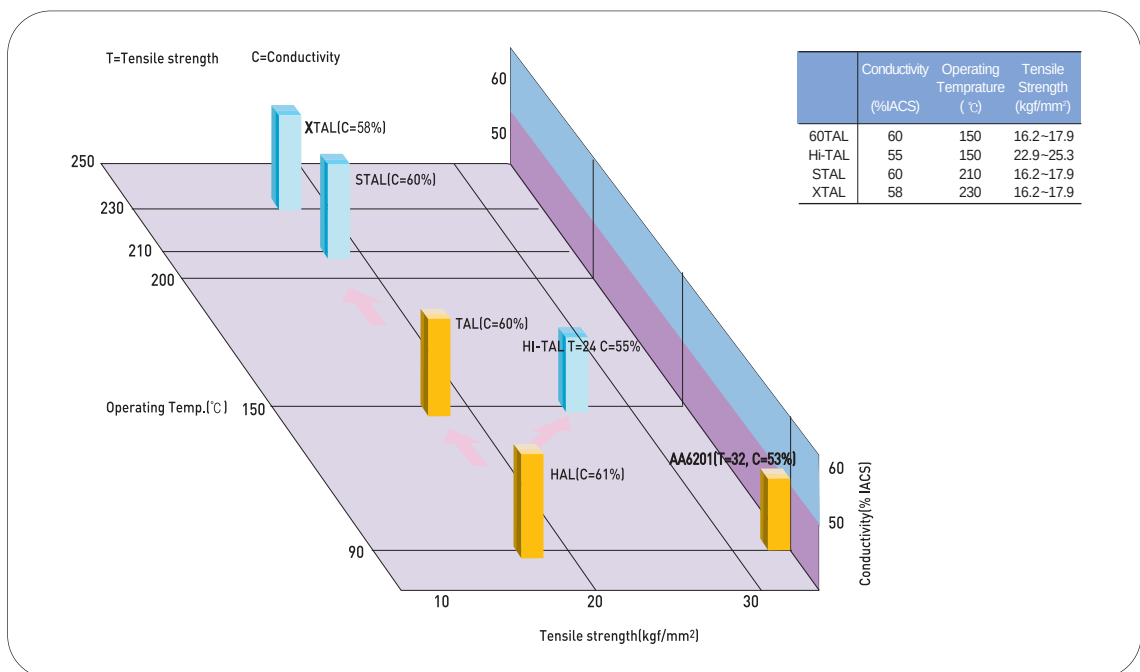
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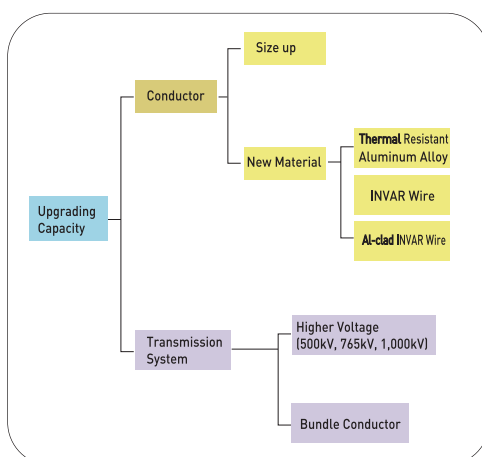
Trend in Developing Aluminum Conductors

- Our Thermal resistant aluminum alloy conductors offer excellent performance and advantages with improved techniques, especially in the higher grade thermal resistant aluminum alloy conductors which is also reasonable in price.
- We have vast experience in producing thermal resistant aluminum alloy conductors as well as bare copper wires and aluminum conductors.

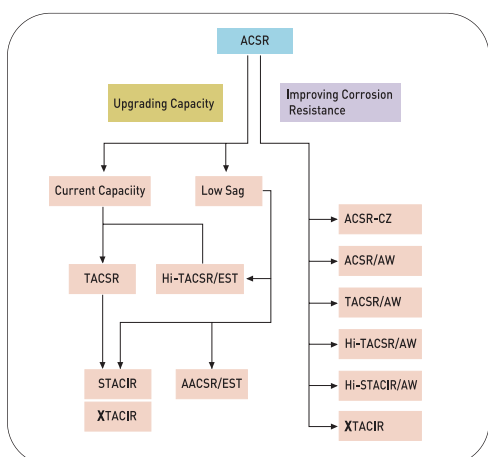
Kinds of Unique Aluminum Conductor Materials



Approaching to the Upgrading Capacity



Flow of Developing the Overhead Transmission Conductor



Thermal Resistant Aluminum Alloy Conductors, Steel (Aluminum-clad Steel) Reinforced



TACSR (/ AW)

Application

TACSR (/AW) is used for overhead electric power transmission lines. Big city, seaside district, moisture area etc.

Standard

IEC, ASTM, LSC standard, JEC 3406

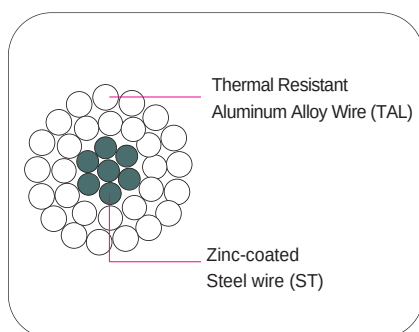
Construction

- Steel Core Wire: Zinc-coated Steel Wire / Aluminum-clad Steel Wire(AW) : 14% ~ 40% AW
- Conductor : Thermal Resistant Aluminum Alloy Wire used for continuously allowable temperature up to 150 °C

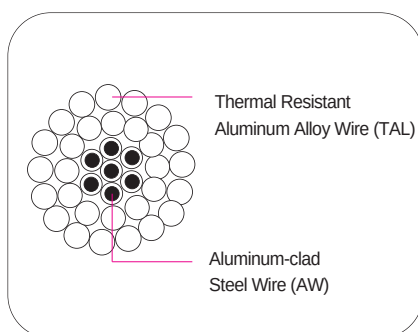
Characteristics

AW Type has excellent rustless characteristics.

TACSR



TACSR/AW



Thermal Resistant Aluminum Alloy Conductors, Steel (Aluminum-clad Steel) Reinforced

LS Cable Standard (60% IACS)

TACSR

Conductor Size (mm ²)	Stranding (Nos./mm)		Min. Breaking Load (kgf)	Reference												
				Cross-Sectional Area (mm ²)			Overall Diameter (mm)		Weight (kg/km)			DC Resistance at 20 °C (Ω /km)	Modulus of Elasticity (kgf/mm ²)	Coefficient of Linear Expansion (10 ⁻⁶ /°C)	Standard Length (m)	Current Carrying Capacity (A)
	TAL	ST		Total	TAL	ST	TAL	ST	Total							
58	6/3.5	1/3.5	1,980	57.73	9.621	67.35	10.5	3.5	158.1	75.04	233.1	0.505	8,400	18.9	1,000	343
80	6/4.2	1/4.2	2,770	83.10	13.85	96.95	12.6	4.2	227.5	108.0	335.5	0.350	8,400	18.9	1,000	430
95	6/4.5	1/4.5	3,810	95.40	15.90	111.3	13.5	4.5	261.2	124.0	385.2	0.306	8,400	18.9	1,000	478
80	15/2.6	4/2.6	4,720	79.64	21.24	100.9	13.0	(7.8)	219.2	166.5	385.7	0.368	9,390	17.6	2,000	448
100	15/2.9	4/2.9	5,580	99.08	26.42	125.5	14.5	(8.7)	272.8	207.1	479.9	0.296	9,390	17.6	2,000	517
120	15/3.2	4/3.2	5,550	120.6	32.17	152.8	16.0	(9.6)	332.2	252.2	584.4	0.243	9,390	17.6	2,000	590
120	30/2.3	7/2.3	5,540	124.7	29.09	153.8	16.1	6.9	345.7	228.0	573.7	0.237	9,080	18.0	2,000	598
160	30/2.6	7/2.6	6,980	159.3	37.16	196.5	18.2	7.8	441.5	291.3	732.8	0.185	9,080	18.0	2,000	706
200	30/2.9	7/2.9	8,640	198.2	46.24	244.4	20.3	8.7	549.3	362.4	911.7	0.149	9,080	18.0	2,000	816
240	30/3.2	7/3.2	10,210	241.3	56.29	297.6	22.4	9.6	668.9	441.3	1,110	0.122	9,080	18.0	2,000	932
330	26/4.0	7/3.1	10,950	326.8	52.84	379.6	25.3	9.3	905.4	414.2	1,320	0.0904	8,360	19.0	2,000	1,128
410	26/4.5	7/3.5	13,910	413.4	67.35	480.8	28.5	10.5	1,145	527.9	1,673	0.0714	8,360	19.0	2,000	1,322
480	45/3.7	7/2.47	11,260	483.8	33.54	517.34	29.6	7.41	1336.1	262.9	1,599	0.0610	7,250	20.8	2,000	1,425
520	54/3.5	7/3.5	15,600	519.5	67.35	586.9	31.5	10.5	1,441	527.9	1,969	0.0569	7,990	19.5	1,600	1,504
610	54/3.8	7/3.8	18,350	612.4	79.38	691.8	34.2	11.4	1,698	622.2	2,320	0.0481	7,990	19.5	1,600	1,682
680	54/4.0	7/4.0	19,810	678.8	87.99	766.8	36.0	12.0	1,882	689.8	2,572	0.0436	7,990	19.5	1,600	1,797
680	45/4.4	7/2.9	15,580	684.5	46.24	730.7	35.1	8.7	1,898	362.4	2,260	0.0431	7,250	20.8	1,600	1,787
810	45/4.8	7/3.2	18,480	814.5	56.29	870.8	38.4	9.6	2,259	441.3	2,700	0.0363	7,250	20.8	1,600	2,004
1,160	84/4.2	7/4.2	27,830	1,163	96.95	1,260	46.2	12.6	3,236	759.8	3,996	0.0254	7,430	20.5	1,200	2,573
1,520	84/4.8	7/4.8	36,390	1,520	126.7	1,647	52.8	14.4	4,228	993.3	5,222	0.0195	7,430	20.5	1,200	3,035

TACSR/AW (20% Conductivity AW)

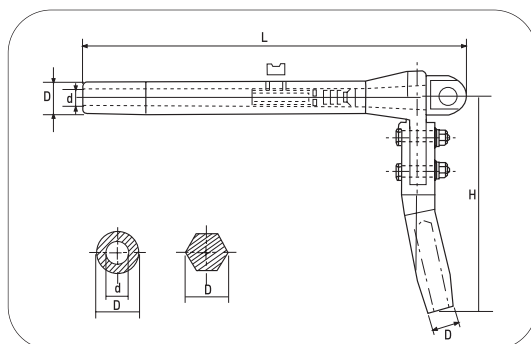
Conductor Size (mm ²)	Stranding (Nos./mm)		Min. Breaking Load (kgf)	Reference									
				Cross-Sectional Area (mm ²)		Overall Diameter (mm)		Weight (kg/km)	DC Resistance at 20 °C (Ω /km)	Modulus of Elasticity (kgf/mm ²)	Coefficient of Linear Expansion (10 ⁶ /°C)	Standard Length (m)	Current Carrying Capacity (A)
	TAL	AW		TAL	AW								
120	30/2.3	7/2.3	5,540	124.7	29.08	16.1	6.9	536.5	0.219	8,100	19.2	2,000	622
160	30/2.6	7/2.6	6,980	159.3	37.16	18.2	7.8	685.4	0.171	8,100	19.2	2,000	734
200	30/2.9	7/2.9	8,640	198.2	46.24	20.3	8.7	852.8	0.138	8,100	19.2	2,000	847
210	30/3.2	7/3.2	10,160	241.3	56.29	22.4	9.6	1,038	0.113	8,100	19.2	2,000	968
330	26/4.0	7/3.1	11,200	326.8	52.84	25.3	9.3	1,252	0.0856	7,620	20.0	2,000	1,159
410	26/4.5	7/3.5	14,230	413.4	67.35	28.5	10.5	1,587	0.0676	7,630	20.0	2,000	1,358
480	45/3.7	7/2.47	11,260	483.84	33.54	29.6	7.4	1,561	0.0595	6,910	21.5	2,000	1,437
520	54/3.5	7/3.5	15,920	519.5	67.35	31.5	10.5	1,883	0.0544	7,390	20.4	1,600	1,537
610	54/3.8	7/3.8	18,730	612.4	79.38	34.2	11.4	2,219	0.0461	7,330	20.4	1,600	1,717
680	45/4.4	7/2.9	15,580	684.5	46.24	35.1	8.7	2,201	0.0422	6,900	21.5	1,600	1,805
810	45/4.8	7/3.2	18,730	814.5	56.29	38.4	9.6	2,628	0.0354	6,910	21.5	1,600	2,028
950	84/3.8	7/3.8	23,780	952.6	79.38	41.8	11.4	3,170	0.0302	7,030	21.2	1,200	2,292
1,160	84/4.2	7/4.2	28,720	1,163	96.95	46.2	12.6	3,872	0.0247	7,030	21.2	1,200	2,606
1,520	84/4.8	7/4.8	37,520	1,520	126.7	52.8	14.4	5,060	0.0189	7,030	21.2	1,200	3,075

TACSR/AW (23% Conductivity AW)

Conductor Size	Stranding (Nos./mm)		Min. Breaking Load	Reference									
				Cross-Sectional Area (mm²)		Overall Diameter (mm)		Weight (kg/km)	DC Resistance at 20 °C (Ω/km)	Modulus of Elasticity (kgf/mm²)	Coefficient of Linear Expansion (10⁻⁷ /°C)	Standard Length (m)	Current Carrying Capacity (A)
	TAL	AW		TAL	AW								
(mm²)	TAL	AW	(kgf)	TAL	AW	TAL	AW	(kg/km)					
120	30/2.3	7/2.3	5,410	124.7	29.08	16.1	6.9	528.9	0.217	7,980	19.4	2,000	625
160	30/2.6	7/2.6	6,810	159.3	37.16	18.2	7.8	675.7	0.170	7,980	19.4	2,000	736
200	30/2.9	7/2.9	8,440	198.2	46.24	20.3	8.7	840.7	0.136	7,980	19.4	2,000	854
210	30/3.2	7/3.2	10,210	241.3	56.29	22.4	9.6	1,024	0.112	7,980	19.4	2,000	973
330	26/4.0	7/3.1	10,950	326.8	52.84	25.3	9.3	1,238	0.085	7,540	20.2	2,000	1,163
410	26/4.5	7/3.5	13,910	413.4	67.35	28.5	10.5	1,570	0.0671	7,550	20.2	2,000	1,363
480	45/3.7	7/2.47	11,110	483.84	33.54	29.6	7.4	1,550	0.0592	6,880	20.6	2,000	1,441
520	54/3.5	7/3.5	15,600	519.5	67.35	31.5	10.5	1,865	0.0541	7,330	20.6	1,600	1,541
610	54/3.8	7/3.8	18,350	612.4	79.38	34.2	11.4	2,198	0.0458	7,320	20.6	1,600	1,722
680	45/4.4	7/2.9	15,600	684.5	46.24	35.1	8.7	2,189	0.0420	6,860	21.6	1,600	1,809
810	45/4.8	7/3.2	18,480	814.5	56.29	38.4	9.6	2,613	0.0353	6,880	21.6	1,600	2,031
950	84/3.8	7/3.8	23,100	952.6	79.38	41.8	11.4	3,149	0.0300	6,980	21.3	1,200	2,299
1,160	84/4.2	7/4.2	28,270	1,163	96.95	46.2	12.6	3,847	0.0246	6,980	21.3	1,200	2,611
1,520	84/4.8	7/4.8	36,960	1,520	126.7	52.8	14.4	5,027	0.0189	6,980	21.3	1,200	3,075

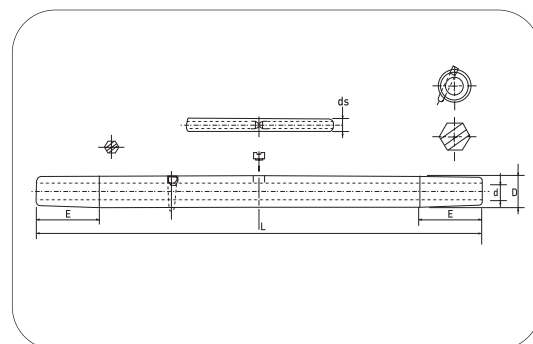
Conductor Fittings

Compression Type Strain Clamp



Application Conductor (mm ²)		Dimension (mm)			
		L	D	d	H
TACSR (/AW)	120	400-440	25-35	16-20	270-290
	160	400-440	25-35	18-22	270-290
	200	460-500	30-40	20-24	290-330
	240	500-530	35-42	22-26	310-330
	330	520-560	40-45	24-29	320-340
	410	600-630	46-50	28-32	170-390
	520	640-670	50-55	31-35	370-390
	610	700-740	57-63	34-38	380-410
	680	700-740	62-67	35-38	400-420
	810	720-760	65-70	38-42	430-440
	1,160	800-830	73-78	46-50	530-550
	1,520	940-1,000	87-93	52-57	600-620

Compression Type Joint Sleeve



Application Conductor (mm ²)		Dimension (mm)				
		L	D	d	E	ds
TACSR (/AW)	120	470-530	25-35	16-20	55-65	7-8
	160	470-530	25-35	18-22	55-65	8-9
	200	500-560	30-40	20-24	65-75	9-10
	240	570-630	33-43	22-26	70-80	10-11
	330	610-670	37-47	25-29	80-90	9-10.5
	410	710-770	43-53	28-32	90-100	10.5-11.7
	610	900-960	55-65	34-38	115-125	11-13
	680	850-910	60-70	35-38	125-135	9-10
	810	910-970	63-73	38-42	130-140	10-11
	1,160	1,070-1,130	63-73	46-50	135-145	13-14
	1,520	1,310-1,370	85-95	53-57	175-185	14.5-15.5

High Tensile Strength Thermal Resistant Aluminum Alloy Conductors, Extra High Strength Steel Reinforced



Hi-TACSR / EST

Application

Hi-TACSR / EST is used for electric power transmission lines.
River-crossing area, long span area, moisture area etc.

Standard

IEC, ASTM, LSC standard, JCS1363

Construction

- Steel Core Wire (EST) : Extra High Strength Steel Wire
- Conductor (Hi-TAL) : High Tensile Strength Thermal Resistant Aluminum Alloy Wire used for continuous allowable temperature up to 150 °C
- If necessary, Conductor could be filled with grease (150 °C grade)

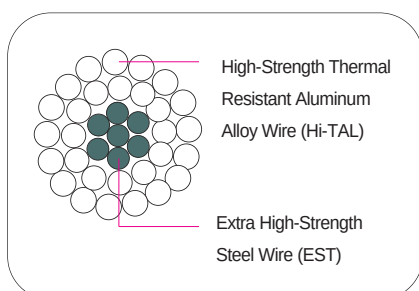
Characteristics

- Tensile strength of Hi-TAL wire is show in the below

Wire Diameter (mm)	Tensile Strength (kgf/mm ²)	Wire Diameter (mm)	Tensile Strength (kgf/mm ²)
4.2~5.0	Min. 22.9	2.9	Min. 25.0
4.0	Min. 24.3	2.6	Min. 25.3
3.8~3.2	Min. 24.6		

- Low sag & High tension characteristics
- High current carrying capacity characteristics
- Hi-TACSR/EST has high breaking load

Hi-TACSR / EST



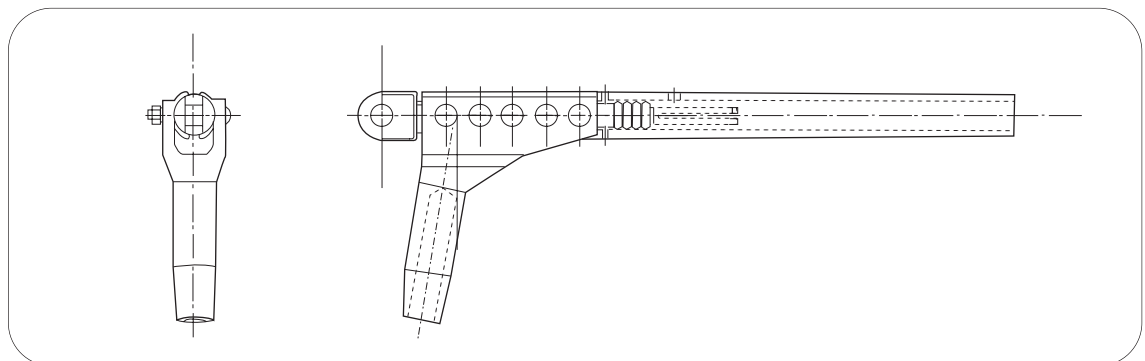
LS Cable Standard

Hi-TACSR / EST

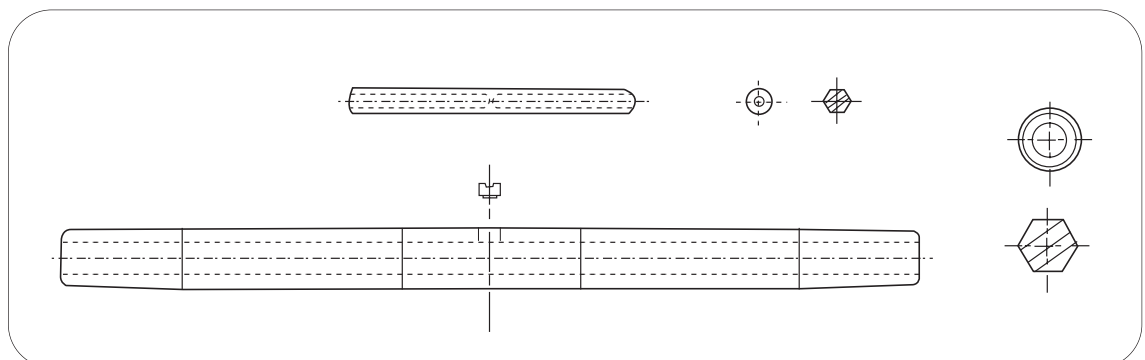
Conductor Size (mm ²)	Stranding (Nos./mm)		Min. Breaking Load (kgf)	Reference							
				Cross-Sectional Area (mm ²)		Overall Diameter (mm)		Weight (kg/km)	DC Resistance at 20 °C (Ω /km)	Standard Length (m)	Current Carrying Capacity (A)
	Hi-TAL	EST		Hi-TAL	EST	Hi-TAL	EST				
79	12/2.9	7/2.9	9,280	79.26	46.24	14.5	8.7	580.4	0.403	1,600	427
97	12/3.2	7/3.2	11,270	96.50	56.29	16.0	9.6	706.8	0.331	1,600	486
120	12/3.5	7/3.5	13,460	115.5	67.35	17.5	10.5	845.6	0.277	1,600	548
150	12/4.0	7/4.0	16,780	150.8	87.99	20.0	12.0	1,105	0.211	1,600	657
120	30/2.3	7/2.3	7,600	124.7	29.09	16.1	6.9	573.7	0.258	2,000	573
160	30/2.6	7/2.6	9,640	159.3	37.16	18.2	7.8	732.8	0.202	2,000	675
240	30/3.2	7/3.2	14,480	241.3	56.29	22.4	9.6	1,110	0.134	2,000	889
330	26/4.0	7/3.1	15,710	326.8	52.84	25.3	9.3	1,320	0.0983	2,000	1,082
410	26/4.5	7/3.5	19,420	413.4	67.35	28.5	10.5	1,673	0.0777	2,000	1,268
480	45/3.7	7/2.47	16,140	483.8	33.57	29.61	7.41	1,600	0.0664	2,000	1,362
610	54/3.8	7/3.8	25,720	612.4	79.38	34.2	11.4	2,320	0.0525	1,600	1,612
680	45/4.4	7/2.9	21,590	684.5	46.24	35.1	8.7	2,260	0.0470	1,600	1,715
810	45/4.8	7/3.2	25,900	814.5	56.29	38.4	9.6	2,700	0.0395	1,600	1,926
1160	84/4.2	7/4.2	38,770	1,163	96.95	46.2	12.6	3,996	0.0277	1,200	2,474
1520	84/4.8	7/4.8	50,700	1,520	126.7	52.8	14.4	5,222	0.0212	1,200	2,928

Conductor Fittings for Hi-TACSR/AW (EST)

Compression Type Strain Clamp



Compression Type Joint Sleeve



High Tensile Strength Thermal Resistant Aluminum Alloy Conductors, Aluminum-Clad Steel Reinforced



Hi-TACSR / AW

Application

Hi-TACSR/AW is used for electric power transmission lines.
River-crossing area, seaside district and overseas area, long span, mountain area etc.

Standard

IEC, ASTM, LSC standard, JCS1363

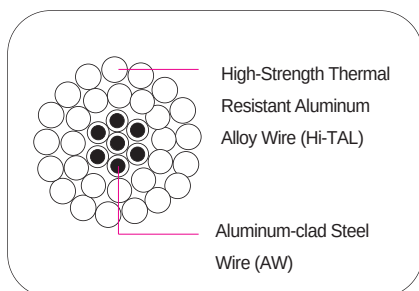
Construction

- Core Wire(AW) : Aluminum-clad Steel Wire
- Conductor(Hi-TAL) : High Tensile Strength Thermal Resistant Aluminum Alloy Wire used for Continuous allowable temperature up to 150 °C

Characteristics

- Excellent rustless characteristics
- Low sag & High tension characteristics
- High current carrying capacity characteristics

Hi-TACSR / AW



LS Cable Standard

Hi-TACSR / 20AW (135kgf/mm²)

Conductor Size	Stranding (Nos./mm)		Min. Breaking Load	Reference									
				Cross-Sectional Area (mm ²)		Overall Diameter (mm)		Weight	DC Resistance at 20 °C (Ω /km)	Modulus of Elasticity (kgf/mm ²)	Coefficient of Linear Expansion ($\times 10^{-6}/^{\circ}\text{C}$)	Standard Length	Current Carrying Capacity (A)
	Hi-TAL	AW		Hi-TAL	AW	(kg/km)							
(mm ²)	Hi-TAL	AW	(kgf)	Hi-TAL	AW	Hi-TAL	AW	(kg/km)				(m)	
79	12/2.9	7/2.9	7,400	79.26	46.24	14.5	8.7	521.4	0.331	9,930	16.9	1,600	471
97	12/3.2	7/3.2	9,010	96.50	56.29	16.0	9.6	634.9	0.272	9,930	16.9	1,600	536
120	12/3.5	7/3.5	10,750	115.5	67.35	17.5	10.5	759.7	0.227	9,930	16.9	1,600	605
150	12/4.0	7/4.0	14,000	150.8	87.99	20.0	12.0	992.5	0.173	9,930	16.9	1,600	728
120	30/2.3	7/2.3	6,420	124.7	29.09	16.1	6.9	536.5	0.237	8,260	19.2	2,000	598
160	30/2.6	7/2.6	8,140	159.3	37.16	18.2	7.8	685.0	0.186	8,260	19.2	2,000	704
240	30/3.2	7/3.2	12,210	241.3	56.29	22.4	9.6	1,038	0.123	8,260	19.2	2,000	928
330	26/4.0	7/3.1	13,560	326.8	52.84	25.3	9.3	1,252	0.0927	7,790	20.1	2,000	1,114
410	26/4.5	7/3.5	16,710	413.4	67.35	28.5	10.5	1,587	0.0732	7,800	20.0	1,600	1,306
610	54/3.8	7/3.8	23,200	612.4	79.38	34.2	11.4	2,219	0.0501	7,570	20.5	1,600	1,649
680	45/4.4	7/2.9	19,710	684.5	46.24	35.1	8.7	2,201	0.0458	7,090	21.5	1,600	1,736
810	45/4.8	7/3.2	23,630	814.5	56.29	38.4	9.6	2,628	0.0385	7,100	21.5	1,600	1,950
1,160	84/4.2	7/4.2	35,750	1,163	96.95	46.2	12.6	3,872	0.0269	7,220	21.2	1,200	2,507
1,520	84/4.8	7/4.8	46,670	1,520	126.7	52.8	14.4	5,060	0.0206	7,210	21.2	1,200	2,964

Hi-TACSR / 23AW (130kgf/mm²)

Conductor Size (mm ²)	Stranding (Nos./mm)		Min. Breaking Load (kgf)	Reference									
				Cross-Sectional Area (mm ²)		Overall Diameter (mm)		Weight (kg/km)	DC Resistance at 20 °C (Ω /km)	Modulus of Elasticity (kgf/mm ²)	Coefficient of Linear Expansion ($\times 10^{-6}$ /°C)	Standard Length (m)	Current Carrying Capacity (A)
	Hi-TAL	AW		Hi-TAL	AW								
79	12/2.9	7/2.9	7,190	79.26	46.24	14.5	8.7	509.3	0.323	9,710	17.2	1,600	476
97	12/3.2	7/3.2	8,750	96.50	56.29	16.0	9.6	620.2	0.265	9,710	17.2	1,600	543
120	12/3.5	7/3.5	10,430	115.5	67.35	17.5	10.5	742.0	0.222	9,710	17.2	1,600	612
150	12/4.0	7/4.0	13,560	150.8	87.99	20.0	12.0	969.4	0.169	9,710	17.2	1,600	734
120	30/2.3	7/2.3	6,290	124.7	29.09	16.1	6.9	528.9	0.235	8,150	19.4	2,000	601
160	30/2.6	7/2.6	7,970	159.3	37.16	18.2	7.8	675.7	0.184	8,150	19.4	2,000	707
240	30/3.2	7/3.2	11,960	241.3	56.29	22.4	9.6	1,024	0.122	8,150	19.4	2,000	932
330	26/4.0	7/3.1	13,320	326.8	52.84	25.3	9.3	1,238	0.0920	7,710	20.2	2,000	1,118
410	26/4.5	7/3.5	16,390	413.4	67.35	28.5	10.5	1,570	0.0727	7,720	20.2	1,600	1,310
610	54/3.8	7/3.8	22,820	612.4	79.38	34.2	11.4	2,198	0.0497	7,500	20.7	1,600	1,656
680	45/4.4	7/2.9	19,510	684.5	46.24	35.1	8.7	2,189	0.0457	7,050	21.6	1,600	1,738
810	45/4.8	7/3.2	23,380	814.5	56.29	38.4	9.6	2,613	0.0384	7,060	21.6	1,600	1,952
1,160	84/4.2	7/4.2	35,310	1,163	96.95	46.2	12.6	3,847	0.0267	7,170	21.4	1,200	2,516
1,520	84/4.8	7/4.8	46,100	1,520	126.7	52.8	14.4	5,027	0.0205	7,170	21.4	1,200	2,971

Hi-TACSR / 23AW (125kgf/mm²)

Conductor Size	Stranding (Nos./mm)		Min. Breaking Load	Reference									
				Cross-Sectional Area (mm ²)		Overall Diameter (mm)		Weight	DC Resistance at 20 °C (Ω /km)	Modulus of Elasticity (kgf/mm ²)	Coefficient of Linear Expansion ($\times 10^{-6}/^{\circ}\text{C}$)	Standard Length	Current Carrying Capacity (A)
	Hi-TAL	AW		Hi-TAL	AW	(kg/km)							
(mm ²)	Hi-TAL	AW	(kgf)	Hi-TAL	AW	Hi-TAL	AW	(kg/km)				(m)	
79	12/2.9	7/2.9	6,990	79.26	46.24	14.5	8.7	509.3	0.323	9,710	17.2	1,600	476
97	12/3.2	7/3.2	8,500	96.50	56.29	16.0	9.6	620.2	0.265	9,710	17.2	1,600	543
120	12/3.5	7/3.5	10,120	115.5	67.35	17.5	10.5	742.0	0.222	9,710	17.2	1,600	612
150	12/4.0	7/4.0	13,190	150.8	87.99	20.0	12.0	969.4	0.169	9,710	17.2	1,600	734
120	30/2.3	7/2.3	6,160	124.7	29.09	16.1	6.9	528.9	0.235	8,150	19.4	2,000	601
160	30/2.6	7/2.6	7,800	159.3	37.16	18.2	7.8	675.7	0.184	8,150	19.4	2,000	707
240	30/3.2	7/3.2	11,710	241.3	56.29	22.4	9.6	1,024	0.122	8,150	19.4	2,000	932
330	26/4.0	7/3.1	13,080	326.8	52.84	25.3	9.3	1,238	0.0920	7,710	20.2	2,000	1,118
410	26/4.5	7/3.5	16,080	413.4	67.35	28.5	10.5	1,570	0.0727	7,720	20.2	1,600	1,310
610	54/3.8	7/3.8	22,510	612.4	79.38	34.2	11.4	2,198	0.0497	7,500	20.7	1,600	1,656
680	45/4.4	7/2.9	19,300	684.5	46.24	35.1	8.7	2,189	0.0457	7,050	21.6	1,600	1,738
810	45/4.8	7/3.2	23,130	814.5	56.29	38.4	9.6	2,613	0.0384	7,060	21.6	1,600	1,952
1,160	84/4.2	7/4.2	34,860	1,163	96.95	46.2	12.6	3,847	0.0267	7,170	21.4	1,200	2,516
1,520	84/4.8	7/4.8	45,540	1,520	126.7	52.8	14.4	5,027	0.0205	7,170	21.4	1,200	2,971

Super-Thermal Resistant Aluminum Alloy Conductors, Aluminum-clad Invar Reinforced



Hi-STACIR / AW, STACIR / AW

Application

Hi-STACIR/AW, STACIR/AW is normally used to up-rate an existing transmission line by simply replacing the existing conductor without tower modification or reinforcement.

Standard

IEC, ASTM, LSC standard, JCS 1405

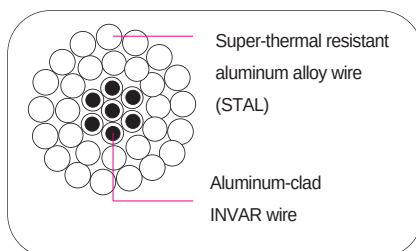
Construction

- Core Wire (INVAR) : Aluminum-clad INVAR wire or High-strength Aluminum-clad INVAR wire
- Conductor (STAL) : Super-Thermal Resistant Aluminum Alloy Wire used for Continuous Allowable Temperature of 210 °C

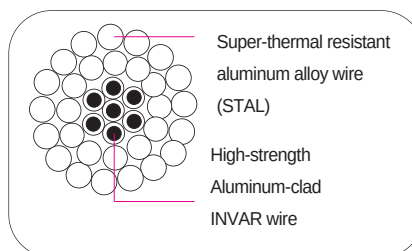
Characteristics

- Double the Current-carrying Capacity of the same size ACSR
- No limitation for application area : Heavy wind & snow, galloping area
- Equivalent Sag-Tension Properties to conventional ACSR
- No Modification & Reinforcement on Existing Tower
- Easy Installation with Same Method & Equipments as ACSR's
- Low Cost and Short Construction Period
- Proved Long-term Reliability

STACIR/AW



Hi-STACIR / AW



* INVAR : INVARIABLE to change of temperature
(a kind of Nickel-Ferrous Alloy)

Introduction of Hi-STACIR/AW, STACIR/AW

- Aluminum conductor Invar reinforced is a completely different conductor compared to the conventional ACSR in capacity and thermal expansion keeping its size, weight and tensile strength. Aluminum conductor Invar reinforced can carry twice as much conductor as that of ACSR of the same size while maximum sag and maximum working tension are the same as those of ACSR.
- The Hi-STACIR/AW, STACIR/AW makes it possible to approximately double the capacity of overhead power transmission lines by simply changing the electrical conductor without remodeling the steel towers.
- High conductive -60% and Super thermal resistant aluminum alloy wires used for conductor layer can continuously be operated at higher temperature-210 °C without degradation.
- A transmission line when building anew is inevitably accompanied not only by rights-of-way problems with the landowners but also by ecological and environmental impacts. Building transmission lines anew is viewed to counter the current trend of preservation of environment in some area. Then the utilization of existing line with the right-of-way already obtained would be the solution to problem.
- Aluminum conductor Invar reinforced is sure to satisfy you in terms of time, economy, and ecology because it can carry doubled conductor current of a conventional ACSR of the same size and this special feature realizes to double the load capability of the existing line utilizing the existing line facilities. It will set you free from right-of-way problems, tower modification, civil work and help preserve environment.
- High tensile INVAR wires (an Iron-Nickel alloy having very small thermal expansion property nearly 1/3 that of the steel) are used for the core that allow small thermal expansion resulting in small conductor sags. The Invar wires are aluminum-clad so that the resistance against corrosion is improved.
- Now you will understand why mere replacement of existing ACSR with Invar conductor can make the load capability of the existing line twofold.

Conclusion

Applying Up grading Conductor

For the existing Line

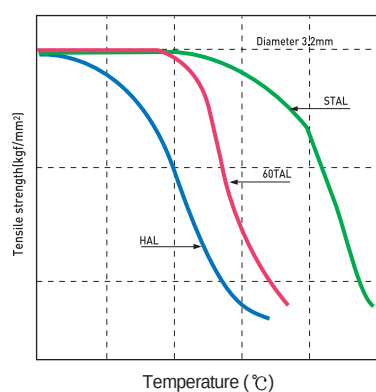
- Double Current Carrying Capacity
- No Modification/ Reinforcement on Existing Tower
- Short Construction Period With Low cost

For New Line

- Reducing Tower height
- Reducing Tower site

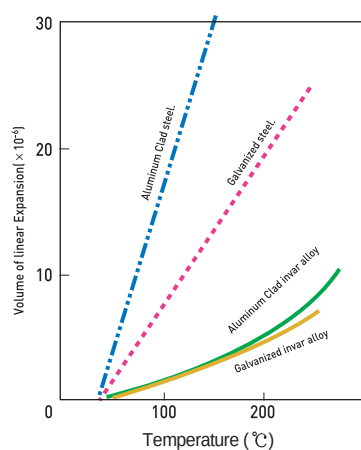
Introduction to Hi-STACIR / AW, STACIR / AW

Characteristics of STAL and INVAR



STAL Wire

Mechanical Characteristics According to Temperature of Thermal Resistant Aluminum Alloy



INVAR Wire

Characteristics Curve of Linear Expansion

INVAR Wire

Item	Tensile Strength (kgf/mm ²)	Coefficient of Linear Expansion (x10 ⁻⁶ / °C)	Modulus of Elasticity (kgf/mm ²)	Applied Conductors
Galvanized INVAR Wire	105~110	2.8	16,500	STACIR
Al-clad INVAR Wire	105~110	3.7	15,500	STACIR/AW
High-Strength Al-clad INVAR Wire	120~125	3.7	15,500	Hi-STACIR/AW

LS Cable Standard

STAL Wire

Standard Diameter (mm)	Tolerance of Dia. (mm)	Tensile Strength (kgf/mm ²)		Elongation on 250mm(%) min	Reference				
		Min.	Avg (Min.)		Cross-Sectional Area (mm ²)	Weight (kg/km)	Ultimate Tensile Strength (kgf)		DC Resistance at 20 ℃ (Ω/km)
2.6	±0.03	17.2	18.3	1.5	5.309	14.33	91.3	97.2	5.41
3.2	±0.04	16.5	17.6	1.7	8.042	21.71	133	142	3.57
3.38	±0.04	16.5	17.6	1.7	8.973	24.23	148	158	3.20
3.7	±0.04	16.5	17.2	1.8	10.75	29.03	177	185	2.67
4.0	±0.04	16.2	16.9	1.9	12.57	33.94	204	212	2.29
4.5	±0.04	16.2	16.9	2.0	15.90	42.93	258	269	1.81

Aluminum-clad Invar Wire

Standard Diameter (mm)	Tolerance of Dia. (mm)	Tensile Strength (kgf/mm ²)	Elongation Min. (%)	No. of Tweists (Nos.)	Conductivity (%IACS)	Properties of Aluminum		Reference						
						Thickness (mm)	Wrapping	Aluminum Thickness (mm)	Area (mm ²)	Weight (kg/km)	Breaking Strength (kgf)	Coefficient of Linear Expansion		Modulus of Elasticity (kgf/mm ²)
2.47	±0.05	110	1.5	20	14	0.06	No separation between aluminum and invar core or no Breakage	0.15	4.790	34.02	527	15 ℃~230 ℃ (×10 ⁻⁶ /℃)	230 ℃~290 ℃ (×10 ⁻⁶ /℃)	15,500
2.6	±0.05	110	1.5	20	14	0.06		0.15	5.309	37.69	584	3.7	10.8	15,500
3.1	±0.06	110	1.5	20	14	0.07		0.17	7.548	53.48	830	3.7	10.8	15,500
3.2	±0.06	110	1.5	20	14	0.07		0.17	8.042	57.10	885	3.7	10.8	15,500
3.38	±0.07	110	1.5	20	14	0.08		0.18	8.973	63.71	987	3.7	10.8	15,500
3.5	±0.07	110	1.5	20	14	0.08		0.18	9.621	68.31	1,060	3.7	10.8	15,500

High-Strength aluminum-clad Invar Wire

Standard Diameter (mm)	Tolerance of Dia. (mm)	Tensile Strength (kgf/mm ²)	Elongation Min. (%)	No. of Tweists (Nos.)	Conductivity (%IACS)	Properties of Aluminum		Reference						
						Thickness (mm)	Wrapping	Aluminum Thickness (mm)	Area (mm ²)	Weight (kg/km)	Breaking Strength (kgf)	Coefficient of Linear Expansion		Modulus of Elasticity (kgf/mm ²)
2.47	±0.05	125	1.5	20	14	0.06	No separation between aluminum and invar core or no Breakage	0.15	4.790	34.02	599	15 ℃~230 ℃ (×10 ⁻⁶ /℃)	230 ℃~290 ℃ (×10 ⁻⁶ /℃)	15,500
2.6	±0.05	120	1.5	20	14	0.06		0.15	5.309	37.69	637	3.7	10.8	15,500
3.1	±0.06	120	1.5	20	14	0.07		0.17	7.548	53.48	906	3.7	10.8	15,500
3.2	±0.06	120	1.5	20	14	0.07		0.17	8.042	57.10	965	3.7	10.8	15,500
3.38	±0.07	120	1.5	20	14	0.08		0.18	8.973	63.71	1,077	3.7	10.8	15,500
3.5	±0.07	120	1.5	20	14	0.08		0.18	9.621	68.31	1,155	3.7	10.8	15,500

LS Cable Standard

STACIR / AW

Conductor Size	Stranding (Nos./mm)		Min. Breaking Load	Overall Diameter	Reference									
					Calculated Cross-Sectional Area (mm ²)			Weight (kg/km)			Modulus of Elasticity (kgf/mm ²)	Coefficient of Linear Expansion (x10 ⁶ /°c)	DC Resistant at 20 °c (Ω/km)	Current Carrying Capacity (A)
	STAL	INVAR			(kgf)	(mm)	STAL	INVAR	Total	STAL				
160	30/2.6	7/2.6	6,140	18.20	159.30	37.16	196.46	441.7	265.2	706.9	8,040	16.0	0.1745	909
240	30/3.2	7/3.2	9,170	22.40	241.30	56.29	297.59	669.1	401.7	1070.8	8,040	16.0	0.1159	1,203
330	26/4.0	7/3.1	10,000	25.30	326.80	52.84	379.64	905.1	377.0	1282.1	7,580	17.5	0.0869	1,452
410	26/4.5	7/3.5	12,720	28.50	413.40	67.35	480.75	1145.5	480.6	1626.1	7,590	17.5	0.0686	1,708
480 (Rail)	45/3.7	7/2.47	10,500	29.61	483.84	33.54	517.38	1340.7	239.3	1580.0	6,900	20.0	0.0600	1,812
480 (Cardinal)	54/3.38	7/3.38	13,280	30.42	484.52	62.81	547.33	1343.5	452.2	1795.7	7,470	18.3	0.0591	1,846

Hi-STACIR/AW

Conductor Size (mm ²)	Stranding (Nos./mm)		Min. Breaking Load (kgf)	Overall Diameter (mm)	Reference									
					Calculated Cross-Sectional Area (mm ²)			Weight (kg/km)			Modulus of Elasticity (kgf/mm ²)	Coefficient of Linear Expansion (x10 ⁶ /°C)	DC Resistant at 20 °C (Ω/km)	Current Carrying Capacity (A)
	STAL	INVAR			Total	STAL	INVAR	Total						
160	30/2.6	7/2.6	6,500	18.20	159.30	37.16	196.46	441.7	265.2	706.9	8,040	16.0	0.1745	909
240	30/3.2	7/3.2	9,700	22.40	241.30	56.29	297.59	669.1	401.7	1070.8	8,040	16.0	0.1159	1,203
330	26/4.0	7/3.1	10,500	25.30	326.80	52.84	379.64	905.1	377.0	1282.1	7,580	17.5	0.0869	1,452
410	26/4.5	7/3.5	13,300	28.50	413.40	67.35	480.75	1145.5	480.6	1626.1	7,590	17.5	0.0686	1,708
480 (Rail)	45/3.7	7/2.47	11,000	29.61	483.84	33.54	517.38	1340.7	239.3	1580.0	6,900	20.0	0.0600	1,812
480 (Cardinal)	54/3.38	7/3.38	13,800	30.42	484.52	62.81	547.33	1343.5	452.2	1795.7	7,470	18.3	0.0591	1,846

Comparison with Conventional ACSR

Item (mm ²)	Construction (Nos./mm)			Weight (kg/km)	Diameter (mm)	Breaking Load (kgf)	DC Resistant at 20 °C (Ω/km)	Elastic Modulus ① (kgf/mm ²)	Coefficient of Linear Expansion ② (×10 ⁻⁶ /°C)	Continuous Current Capacity (A)
160	ACSR	HAL	30/2.6	732.8	18.2	6,990	0.182	9,080	18.0	454 (90 °C)
		ST	7/2.6							
	Hi-STACIR/AW	STAL	30/2.6	706.9	18.2	6,500	0.1745	8,040 (15,500)	16.0 (3.7)	909 (210 °C)
		INVAR	7/2.6							
240	ACSR	HAL	30/3.2	1,110	22.4	10,210	0.139	9,080	18.0	593 (90 °C)
		ST	7/3.2							
	Hi-STACIR/AW	STAL	30/3.2	1,070.8	22.4	9,700	0.1159	8,040 (15,500)	16.0 (3.7)	1,203 (210 °C)
		INVAR	7/3.2							
330	ACSR	HAL	26/4.0	1,260	25.3	10,950	0.0873	8,360	19.0	714 (90 °C)
		ST	7/3.1							
	Hi-STACIR/AW	STAL	26/4.0	1,282.1	25.3	10,500	0.0869	7,580 (15,500)	17.5 (3.7)	1,452 (210 °C)
		INVAR	7/3.1							
410	ACSR	HAL	26/4.5	1,673	28.5	13,890	0.0702	8,360	19.0	829 (90 °C)
		ST	7/3.5							
	Hi-STACIR/AW	STAL	26/4.5	1,626.1	28.5	13,300	0.0686	7,590 (15,500)	17.5 (3.7)	1,708 (210 °C)
		INVAR	7/3.5							
480 (Rail)	ACSR	HAL	45/3.7	1,599	29.61	11,800	0.05994	7,250	20.8	891 (90 °C)
		ST	7/2.47							
	Hi-STACIR/AW	STAL	45/3.7	1,580	29.61	11,000	0.0600	6,900 (15,500)	20.0 (3.7)	1,812 (210 °C)
		INVAR	7/2.47							
480 (Cardinal)	ACSR	HAL	54/3.38	1,836	30.42	15,300	0.0599	7,990	19.5	899 (90 °C)
		ST	7/3.38							
	Hi-STACIR/AW	STAL	54/3.38	1,795.7	30.42	13,800	0.0591	7,470 (15,500)	18.3 (3.7)	1,846 (210 °C)
		INVAR	7/3.38							

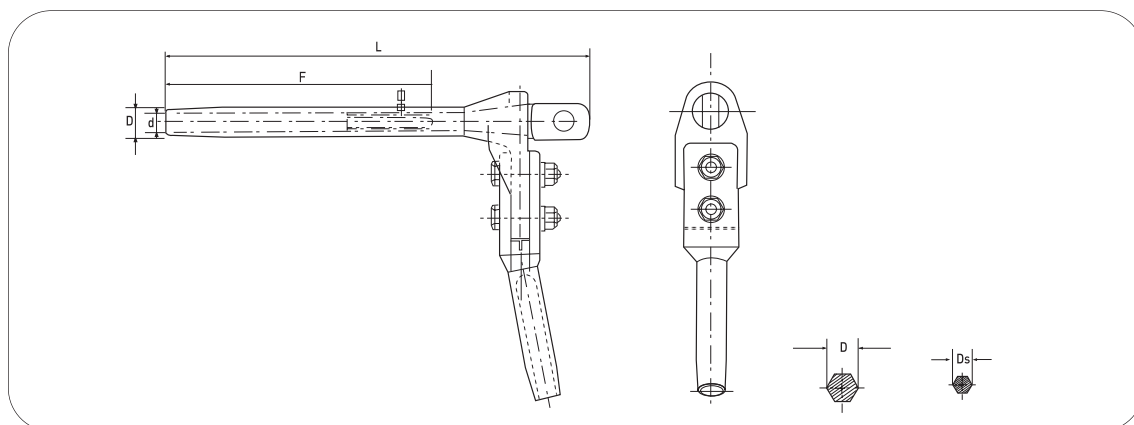
① () ; Elasticity modulus above the transition (knee) point temperature

② () ; Coefficient of linear expansion above the transition (knee) point temperature

Conductor Fittings

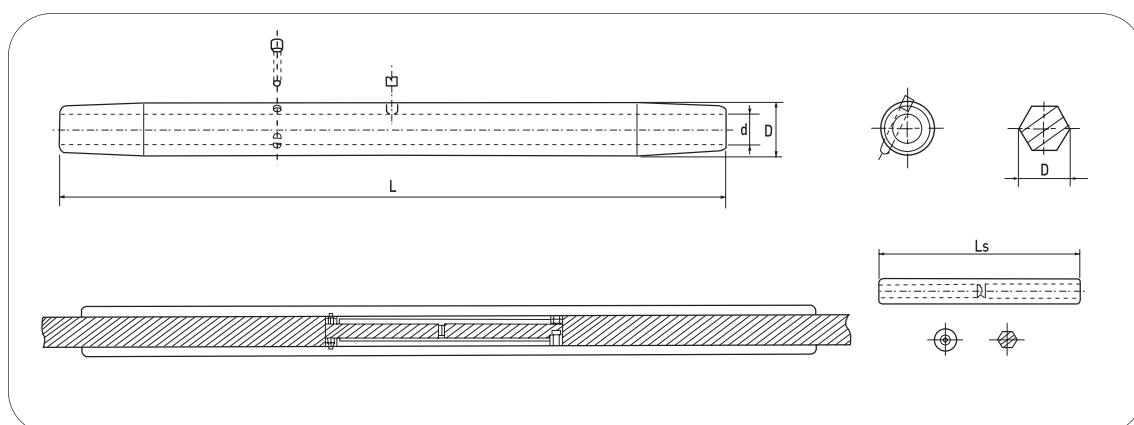
Compression Type Strain Clamp

Application Conductor		Dimension (mm)				
		L	D	d	F	Ds
Hi-STACIR / AW STACIR (IAW)	160mm ²	470 ~ 520	36 ~ 40	18 ~ 22	160 ~ 170	16 ~ 20
	240mm ²	505 ~ 560	40 ~ 44	22 ~ 26	175 ~ 185	20 ~ 24
	330mm ²	530 ~ 600	46 ~ 50	25 ~ 29	190 ~ 200	20 ~ 24
	410mm ²	620 ~ 680	50 ~ 54	31 ~ 35	195 ~ 205	22 ~ 26
	480mm ²	670 ~ 720	50 ~ 54	29 ~ 33	195 ~ 205	17 ~ 21



Compression Type Joint Sleeve

Application Conductor		Dimension (mm)			
		L	D	d	Ds
Hi-STACIR / AW STACIR (IAW)	160mm ²	550 ~ 640	36 ~ 40	18 ~ 22	160 ~ 200
	240mm ²	590 ~ 690	40 ~ 44	22 ~ 26	180 ~ 220
	330mm ²	650 ~ 750	46 ~ 50	25 ~ 29	180 ~ 220
	410mm ²	810 ~ 910	50 ~ 54	28 ~ 32	220 ~ 260
	480mm ²	850 ~ 880	50 ~ 54	29 ~ 33	220 ~ 260



Extra-Thermal Resistant Aluminum Alloy Conductors Aluminum-clad Invar Reinforced

XTACIR

Application

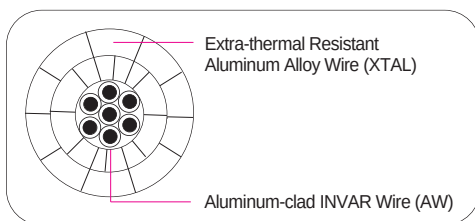
XTACIR is normally used to up-rate an existing transmission line by simply replacing the existing conductor without tower modification or reinforcement.

Standard

IEC, ASTM, LSC standard, JCS 1404

Construction

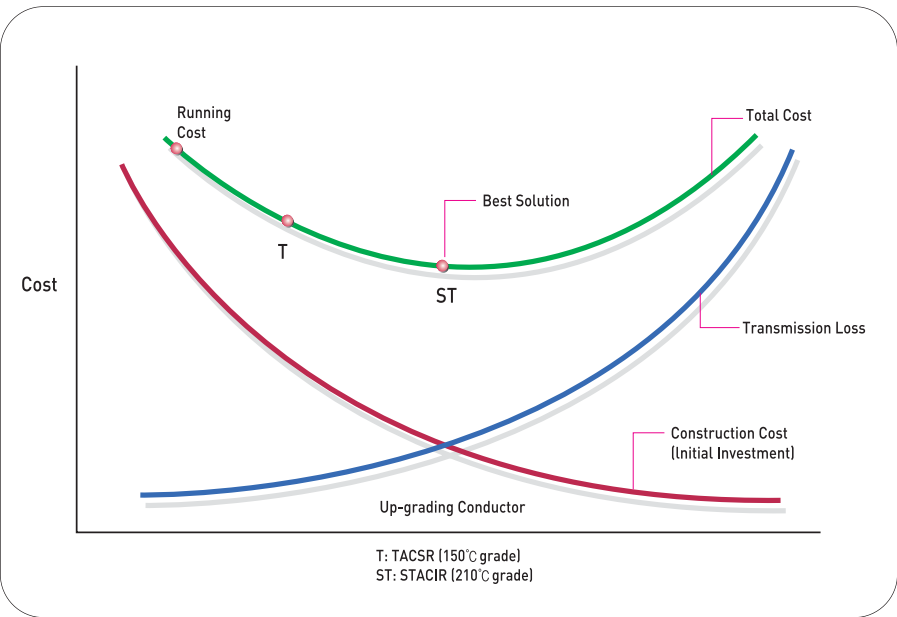
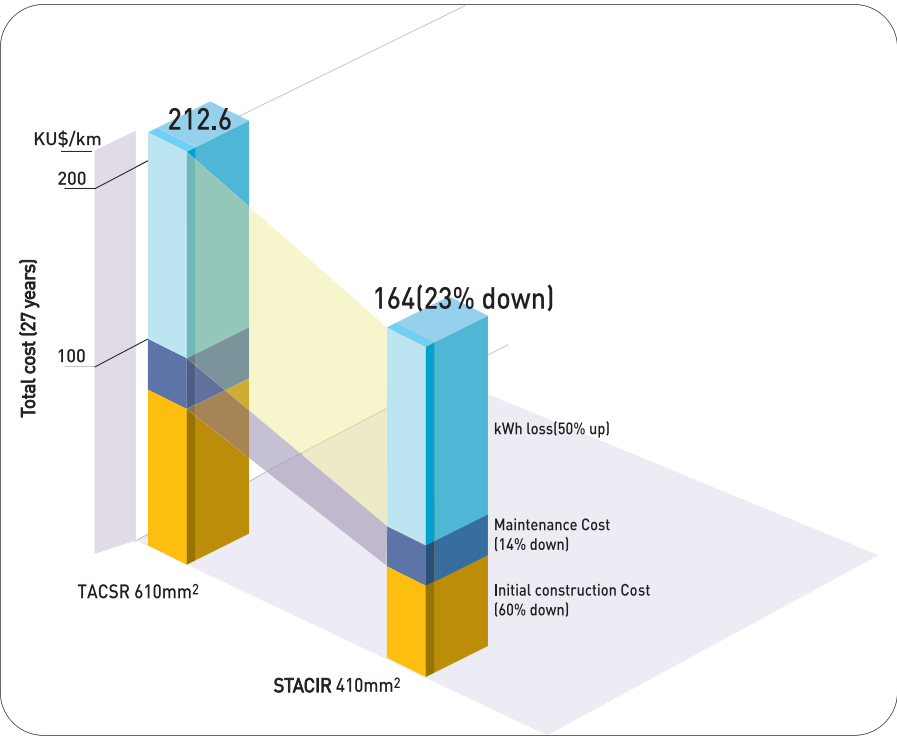
- Extra-thermal Resistant Aluminum Alloy Conductors (XTAL, maximum continuous operating temperature of 230 °C)
- Aluminum-clad Invar Wire (AW)



Characteristics

Nominal Sectional Area (mm ²)	Standing (Nos./mm)		Min. Breaking Load (kN)	Reference													
	XTAL	AW		Calculated Cross-Sectional Area (mm ²)			Overall Diameter (mm)		Weight (kg/km)			Modulus of Elasticity (kgf/mm ²)		Coefficient of Linear Expansion (x10 ⁶ /°C)			DC Resistance at 20 °C (Ω/km)
				XTAL	AW	Total	XTAL	AW	XTAL	AW	Total	Up to transition point temperature	Over transition point temperature	Up to transition point temperature	Transition point temperature ~230 °C	Over 230 °C	
160	24/(2.85)	7/3.0	68.6	153.1	49.48	202.6	17.3	9.0	421.5	353.1	774.6	83.8	152.0	14.5	3.7	10.8	0.184
200	24/(3.15)	7/3.4	83.4	187.0	63.55	250.6	19.2	10.2	515.1	453.5	968.6	84.7	152.0	14.2	3.7	10.8	0.150
240	24/(3.45)	7/3.8	102.8	224.4	79.38	303.8	21.2	11.4	617.9	566.4	1,184	85.4	152.0	14.0	3.7	10.8	0.124
320	24/(4.05)	7/3.8	114.3	309.1	79.38	388.5	23.8	11.4	851.4	566.4	1,418	80.2	152.0	15.5	3.7	10.8	0.0924
400	24/(4.50)	7/4.3	139.8	381.6	101.6	483.2	26.6	12.9	1,051	725.3	1,776	80.8	152.0	15.4	3.7	10.8	0.0747
600	28/(5.10)	7/5.0	197.1	572.0	137.5	709.5	32.2	15.0	1,575	980.7	2,556	79.3	152.0	15.8	3.7	10.8	0.0503

Cost Comparison Between STACIR and TACSR



Global Network

Branches

Singapore Office

300 Beach Road #25-07 The Concourse Singapore 199555
Tel. +65-6342-9162~3

Dubai Office

#502 Capricorn Tower, Sheikh Zayed Road P.O.Box 113798 Dubai, U.A.E
Tel. +971-4-332-9445

India Office

New Delhi Office

C-1, 3rd Fl. Community Centre (Opp. I.I.T Gate) Safdarjung Development Area,
New Delhi, 110016 India
Tel. +91-11-4602-1657,1658

Mumbai Office

#209, 2nd Fl. Dynasty, "A" Wing, Andheri-Kurla Road, Mumbai, 400069 India
Tel. +91-22-4030-9525

Bangalore Office

#111, 1st Floor B Tower, Millenia Towers, Ulsoor, Bangalore, 560008 India
Tel. +91-80-4022-4033

Moscow Office

Park Place E-711, 113/1, Leninsky Prospect, Moscow, 117198 Russia
Tel. +7-495-956-5814

Riyadh Office

#7, 2nd Fl. Al-Rayes Bulding, In Olaya Steet B/D No.28, Riyadh, Saudi Arabia
Tel. +966-1-201-3515

Sao Paulo Office

11th Fl. Itavera Building, Rua Arandu, 1544 Conj 111 e 112 Brookline Paulista,
Sao Paulo, SP, Brazil, 04562-031
Tel. +55-11-2872-4838

Jakarta Office

Graha Mustika Ratu, 11th Floor, Jl.Jenderal Gatot Subroto Kav.74-75,
Jakarta Selatan 12870, Indonesia
Tel. +62-21-830-6733

Cairo Office

Flat No.36, El-Zeini Tower, 25 Misr Helwan Road, Maadi, Cairo, Egypt
Tel. +20-19-966-2810

Sydney Office

Level 35, Suite 35.02 Northpoint 100 Miller Street North Sydney NSW 2060
Tel. +61-043-865-9066

Subsidiaries

LSCW(Wuxi)

LS Industrial Park, Xin Mei Rd, National High-tech Industrial Development Zone.
Wuxi, Jiangsu Province, 214028 China
Tel. +86-510-8534-5943

LSCT(Tianjin)

East of Jing-jin, Express, Yixingbu Entrance, Beichen, Tianjin, China
Tel. +86-22-2699-7618

LSIC

Shanghai, China HQ

12th Fl. Huamin Empire Plaza, 726 West Yan'an Rd, Shanghai 200050, China
Tel. +86-21-5237-3399

Beijing

#02 B-17th Fl. Global Trade Center, 36 Beisanhuan-Dong Rd. Dongcheng Dt.,
Beijing, China
Tel. +86-10-5825-6011

Shenyang

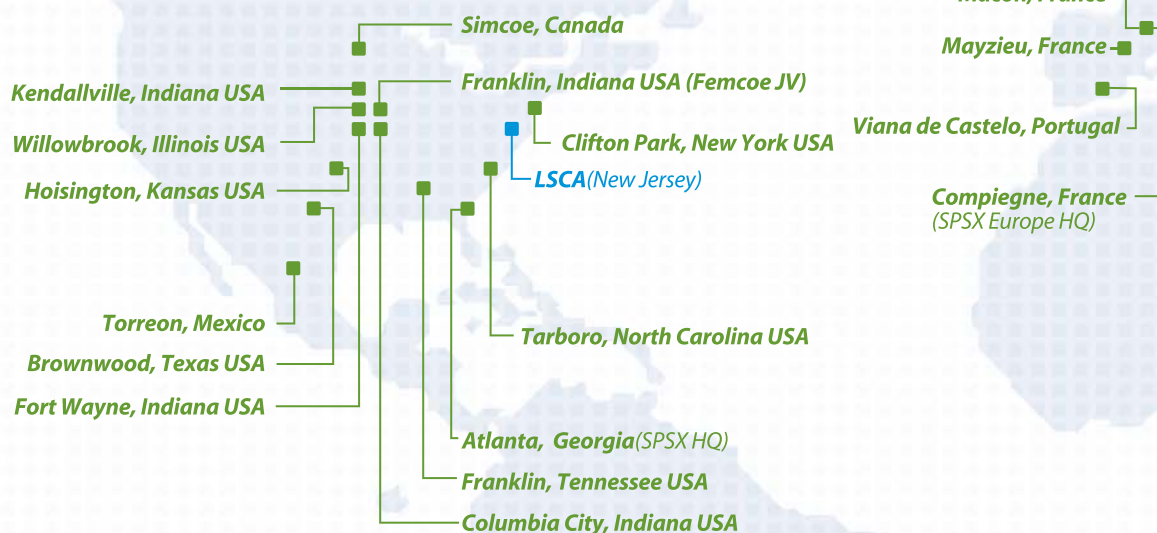
Room B, 15th Fl. XinGangAo Building, 51 Beizhan Rd. Shenhe Dt. Shenyang
110013 China
Tel. +86-24-2256-6541

Shenzhen

#611-612, 6013 Shennan Rd. Futian Dt. Shenzhen, China
Tel. +86-755-8275-0470

Chendu

#2606, 26th Fl. CCB Sichuan Building, 88 Ti Du Street, Chengdu 610017 China
Tel. +86-28-8676-7951





Korea Operations

Headquarters

LS Tower 1026-6 Hogye-dong, Dongan-gu, Anyang, Gyeonggi-do 431-830 Korea
Tel. +82-2-2189-9114

Anyang Plant

555 Hogye-dong, Dongan-gu, Anyang, Gyeonggi-do 431-830 Korea
Tel. +82-31-428-4114

Gumi Plant

190 Gongdan-dong, Gumi, Gyengsangbuk-do 730-708 Korea
Tel. +82-54-469-7114

Indong Plant

643 Jinpyeong-dong, Gumi, Gyengsangbuk-do 730-735 Korea
Tel. +82-54-469-7763

Donghae Plant

1377 Songjeong-dong, Donghae, Gangwon-do 240-806 Korea
Tel. +82-33-820-3114

R&D Center

555 Hogye-dong, Dongan-gu, Anyang, Gyeonggi-do 431-830 Korea
Tel. +82-31-450-8114

LS-VINA(Haiphong)

South of Binh Bridge Str. So Dau Precinct, Hong Bang Dt, Haiphong, Vietnam
Tel. +84-31-540750

LSCV(Hochiminh)

Nhon Trach II-Lockhang IZ, Nhon Trach Dt, Dong Nai province, Hochiminh, Vietnam
Tel. +84-61-356-9037

LSCM(Penang)

Lot 1192, Mukim 14, Permatang Tinggi, 1400 Bukit Mertajam, Penang, Malaysia
Tel. +60-4-588-9609(Ext.34)

LSCI(Haryana)

#101, 1st Floor, Park Centra, Sector 30, Gurgaon, Haryana 122 002, India
Tel. +91-11-2612-1992

LSCA(New Jersey)

920 Sylvan Avenue, Englewood Cliffs, NJ 07632, USA
Tel. +1-201-816-2253

LSCU(London)

#109, Building 3, Chiswick Busuness Park 566 Chiswick High Rd.,
London, W4 5YA, UK
Tel. +44-20-8899-6671

LSCJ(Tokyo)

E 16th Fl. Akasaka Twin Tower 17-22, 2-Chome Akasaka, Minato-ku, Japan
Tel. +81-3-3582-9129



■ **Moscow Office**
Bramsche, Germany

Arolsen, Germany

Quattordio, Italy (2 Facilities)

Cairo Office

Dubai Office

Riyadh Office

LSCI(Haryana)

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12F~17F, LS Tower, 1026-6, Hoggie-dong, Dongan-gu, Anyang-si, Gyeonggi-do, 431-080, Korea
Tel. 82-2-2189-9114

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