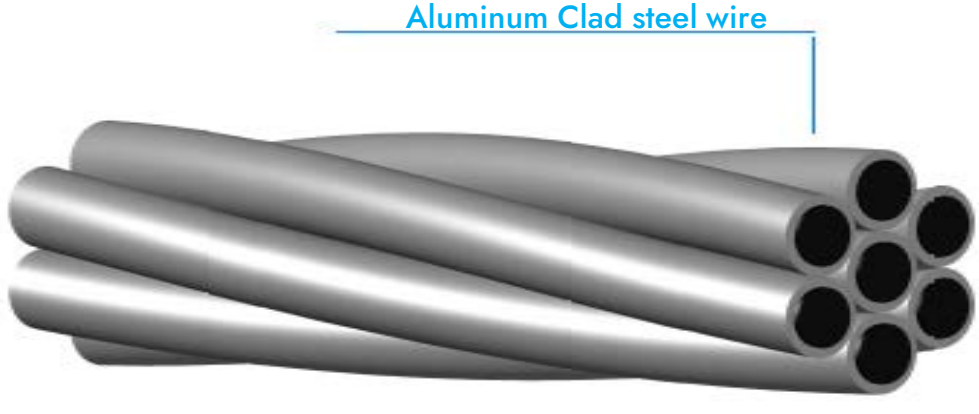
APAR
Tomorrow's solutions today

ALUMINUM CLAD STEEL STRANDED CONDUCTORS

Aluminum Clad steel wIre (ACS): Aluminum-clad steel wire, commonly abbreviated as AW or AS or AC, is an electrical conductor composed of an inner steel core and outer Aluminum cladding. Aluminum clad steel wire is a bimetallic in which aluminum covers on the steel core continuously and evenly. The ACS Stranded Conductors are used as Earthwires, Shieldwires or core of Aluminum Conductors.

Construction

Aluminum clad steel Wires, concentrically stranded over a central wire of Aluminum clad steel wire.



- **Aluminum Clad Steel Stranded wires can be customized for strength and conductivity on request as per customer requirements.**
- **Aluminum Clad Invar stranded conductors can be customized on request as per customer requirements.**

APAR
Tomorrow's solutions today

ALUMINUM CLAD STEEL CONDUCTOR (ACS) - EN 50182

Code Name	Sectional Area	Stranding		Overall Diameter of Conductor	Weight	D C Resistance at 20°C	Rated Strength
		No. of Wires	Individual wire diameter				
	mm^2	No.	mm	mm	Kg/km	Ω/Km	KN
24-A20SA	24.2	7	2.10	6.30	161.5	3.5364	32.49
34-A20SA	34.4	7	2.50	7.50	229.0	2.4953	46.04
49-A20SA	49.5	7	3.00	9.00	329.7	1.7328	66.30
66-A20SA	65.8	19	2.10	10.50	441.0	1.3102	88.18
93-A20SA	93.3	19	2.50	12.50	624.9	0.9245	124.98
117-A20SA	117.0	19	2.80	14.00	783.9	0.7370	156.77
147-A20SA	147.1	37	2.25	15.80	989.2	0.5881	197.13
182-A20SA	181.6	37	2.50	17.50	1 221.2	0.4764	243.38
243-A20SA	242.5	61	2.25	20.30	1 636.1	0.3579	325.00
299-A20SA	299.4	61	2.50	22.50	2 019.8	0.2899	401.24

APAR
Tomorrow's solutions today

ALUMINUM CLAD STEEL CONDUCTOR (ACS) - ASTM B416

Size Designation	Sectional Area	Stranding		Overall Diameter of Conductor	Weight	D C Resistance at 20°C	Rated Strength
		No. of Wires	Individual wire diameter				
	mm^2	No.	AWG	mm	Kg/km	Ω/Km	KN
37 No. 5 AWG	620.6	37	4.62	32.26	4169.82	0.1393	635.21
37 No. 6 AWG	492.2	37	4.11	28.70	3306.69	0.1757	534.68
37 No. 7 AWG	390.3	37	3.67	25.65	2622.14	0.2216	447.94
37 No. 8 AWG	309.5	37	3.26	22.83	2080.45	0.2794	374.54
37 No. 9 AWG	245.5	37	2.91	20.35	1648.88	0.3524	297.01
37 No. 10 AWG	194.6	37	2.59	18.11	1308.09	0.4442	235.53
19 No. 5 AWG	318.7	19	4.62	23.11	2128.07	0.2698	326.28
19 No. 6 AWG	252.7	19	4.11	20.57	1687.57	0.3402	274.46
19 No. 7 AWG	200.5	19	3.67	18.31	1338.60	0.4292	230.11
19 No. 8 AWG	159.0	19	3.26	16.31	1061.80	0.5410	192.34
19 No. 9 AWG	126.1	19	2.91	14.53	842.00	0.6821	152.53
19 No. 10 AWG	99.9	19	2.59	12.93	667.74	0.8603	120.95
7 No. 5 AWG	117.4	7	4.62	13.87	781.14	0.7428	120.24
7 No. 6 AWG	93.1	7	4.11	12.34	619.52	0.9197	101.11
7 No. 7 AWG	73.9	7	3.67	11.00	491.09	1.1598	84.78
7 No. 8 AWG	58.6	7	3.26	9.78	389.60	1.4627	70.86
7 No. 9 AWG	46.4	7	2.91	8.71	308.94	1.8443	56.18
7 No. 10 AWG	36.8	7	2.59	7.77	245.10	2.3256	44.57
7 No. 11 AWG	29.2	7	2.30	6.91	194.35	2.9326	35.34
7 No. 12 AWG	23.2	7	2.05	6.15	154.17	3.6977	28.03
3 No. 5 AWG	50.3	3	4.62	9.96	334.09	1.6986	54.40
3 No. 6 AWG	39.9	3	4.11	8.86	265.04	2.1418	45.73
3 No. 7 AWG	31.6	3	3.67	7.90	210.13	2.7009	38.35
3 No. 8 AWG	25.1	3	3.26	7.04	166.67	3.4057	32.05
3 No. 9 AWG	19.9	3	2.91	6.27	132.16	4.2948	25.42
3 No. 10 AWG	15.8	3	2.59	5.59	104.81	5.4169	20.16