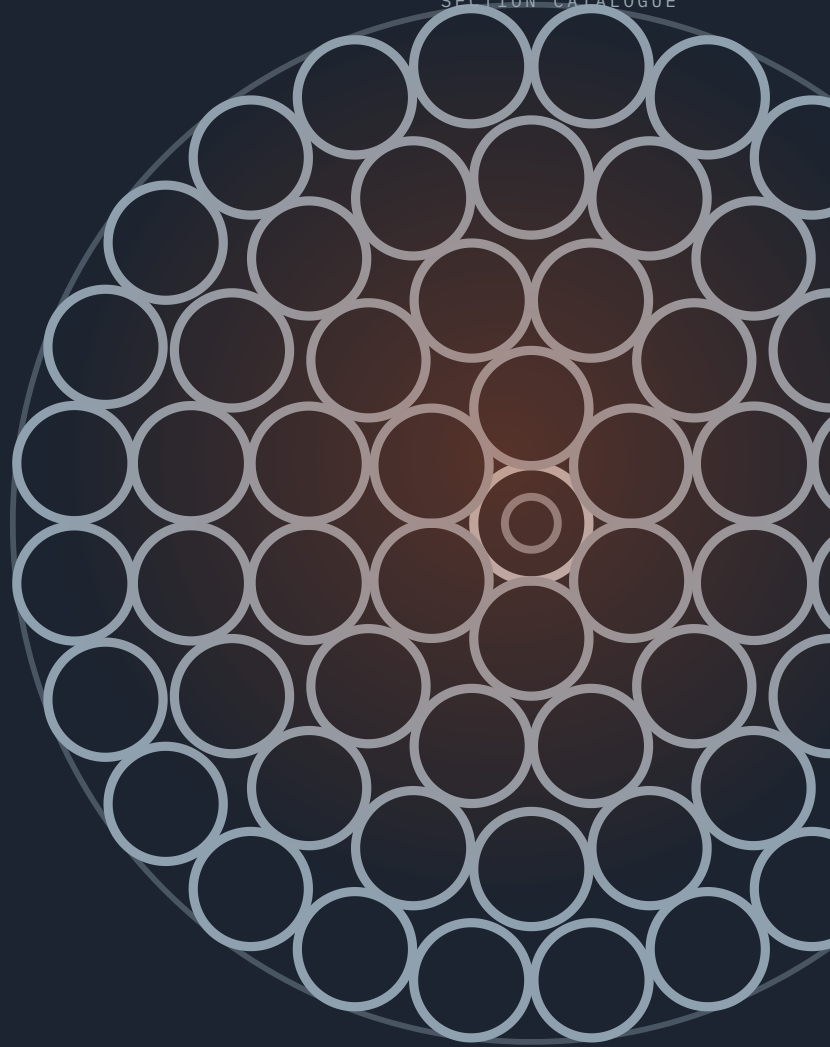




AKZ

ALUMINIUM KOOHRANG ZAGROS

SECTION CATALOGUE



06

ACSR-AW — alloy- clad-steel reinforced

هادی با مغز فولادی روکش آلومینیوم

ASTM B549

IEC 61089

EN 50182

ASTM B415

OVERVIEW

Aluminium-clad core, for corrosive environments.

As ACSR, but the core is aluminium-clad steel (ACS / "AW") instead of galvanised steel — far better corrosion resistance and higher core conductivity, for long spans in aggressive environments.

Supplied in the LARL code-number series, the IEC metric series and the ASTM B549 code-word range (including large sizes).



APPLICATIONS


Coastal & marine lines
Industrial / polluted air
Long river crossings
High-reliability links

STANDARDS

ASTM B549

IEC 61089

EN 50182

ASTM B415

6.1 · LARL code-number series

EN 50182.

Code	Area mm ²	AI n × mm	AW n × mm	Ø mm	AI wt kg/km	AW wt kg/km	Rated kN	R Ω/km
LARL-30	31.1	6 × 2.38	1 × 2.38	7.14	73	29	10.2	1.018
LARL-56	54.6	6 × 3.15	1 × 3.15	9.45	128	51	7.2	0.581
LARL-78	78.6	6 × 3.78	1 × 3.78	11.34	185	74	23.0	0.403
LARL-145	147.1	30 × 2.25	7 × 2.25	15.75	330	184	55.1	0.224
LARL-180	181.6	20 × 2.50	7 × 2.50	17.5	407	227	66.3	0.182
LARL-280	281.1	26 × 3.44	7 × 2.68	21.80	667	262	87.6	0.113
LARL-380	381	54 × 2.82	7 × 2.82	25.38	932	290	109.6	0.082
LARL-455	454.4	54 × 3.08	7 × 3.08	27.72	1112	345	129.4	0.069
LARL-516	516.8	45 × 3.70	7 × 2.47	29.61	1339	221	117.4	0.059
LARL-545	547.3	54 × 3.38	7 × 3.38	30.42	1339	416	153.2	0.057
LARL-635	636.6	54 × 3.65	19 × 2.19	32.85	1562	475	177.5	0.049

6.2 · Metric series

IEC 61089.

Nom. mm ²	Area mm ²	AI n × mm	AW n × mm	Ø mm	Weight kg/km	Rated kN	R Ω/km
16	17.6	6 × 1.81	1 × 1.81	5.43	59.0	5.91	1.792
25	28	6 × 2.26	1 × 2.26	6.78	92.1	9.00	1.147
40	44.4	6 × 2.85	1 × 2.85	8.55	147.4	14.21	0.717
63	70.1	6 × 3.58	1 × 3.58	10.70	232.2	21.17	0.455
100	112	6 × 4.51	1 × 4.51	13.50	368.6	31.84	0.287
125	130	18 × 2.95	1 × 2.95	14.80	384.3	29.18	0.230
125	140	26 × 2.43	7 × 1.89	15.40	460.8	44.49	0.231
160	167	18 × 3.34	1 × 3.34	16.70	491.9	36.38	0.180
160	179	26 × 2.74	7 × 2.13	17.40	589.8	56.18	0.180
200	208	18 × 3.74	1 × 3.74	18.70	614.9	43.62	0.144
200	223	26 × 3.07	7 × 2.39	19.40	737.2	69.27	0.144
250	268	32 × 3.76	7 × 2.09	21.30	830.9	67.80	0.115
250	279	26 × 3.43	7 × 2.67	21.70	921.5	86.58	0.115
315	331	45 × 2.96	7 × 1.97	23.70	996.4	78.33	0.092
315	352	26 × 3.75	7 × 2.99	24.40	1161.1	107.58	0.092
400	420	45 × 3.34	7 × 2.22	26.70	1265.3	97.50	0.072
400	437	54 × 3.02	7 × 3.02	27.20	1402.9	124.20	0.072
450	483	45 × 3.54	7 × 2.36	28.30	1423.4	107.48	0.064
450	493	54 × 3.21	7 × 3.21	28.90	1578.2	139.72	0.064
500	526	45 × 3.73	7 × 2.49	29.80	1581.6	119.42	0.058
500	547	54 × 3.78	7 × 3.38	30.40	1753.6	153.99	0.058
560	588	45 × 3.95	7 × 2.63	31.60	1771.4	133.75	0.052
560	612	54 × 3.58	19 × 2.15	32.20	1956.3	169.36	0.052
630	662	45 × 4.19	7 × 2.79	33.50	1992.8	150.47	0.046
630	688	54 × 3.79	19 × 2.28	34.20	2200.9	190.52	0.046
710	746	45 × 4.44	7 × 2.96	35.60	2245.8	169.57	0.041
710	775	54 × 4.03	19 × 2.42	36.30	2480.3	214.72	0.041
800	825	72 × 3.74	7 × 2.49	37.40	2412.8	167.67	0.036
800	849	84 × 3.45	7 × 3.45	37.90	2598.9	206.37	0.036
800	873	54 × 4.28	19 × 2.57	38.50	2794.7	241.94	0.036
900	929	72 × 3.97	7 × 2.65	39.70	2714.4	188.63	0.032
900	956	84 × 3.66	7 × 3.66	40.20	2923.8	224.82	0.032
1000	1032	72 × 4.18	7 × 2.79	41.80	3016.0	209.59	0.029
1120	1187	84 × 4.08	19 × 2.45	44.90	3628.4	282.88	0.026
1250	1325	84 × 4.31	19 × 2.59	47.40	4049.5	315.72	0.023

6.3 · Code-word series

ASTM B549.

Code	Area mm ²	AI n × mm	AW n × mm	Ø mm	Weight kg/km	Rated kN	R @20°C Ω/km
SWAN	24.7	6 × 2.12	1 × 2.12	6.36	81	7.9	1.282
SWANATE	26.5	7 × 1.96	1 × 2.61	6.53	93	10.1	1.251
SPARROW	39.2	6 × 2.67	1 × 2.67	8.01	129	12.3	0.808
SPARATE	42.1	7 × 2.47	1 × 3.30	8.24	149	15.6	0.787
ROBIN	49.5	6 × 3.00	1 × 3.00	9.00	163	15.3	0.640
RAVEN	62.4	6 × 3.37	1 × 3.37	10.11	205	18.9	0.507
QUAIL	78.6	6 × 3.78	1 × 3.78	11.34	259	22.8	0.403
PIGEON	99.3	6 × 4.25	1 × 4.25	12.75	326	28.0	0.319
PENGUIN	125.1	6 × 4.77	1 × 4.77	14.31	411	34.2	0.253
WAXWING	142.5	18 × 3.09	1 × 3.09	15.45	421	30.3	0.210
PARTRIDGE	156.9	26 × 2.57	7 × 2.00	16.28	520	48.0	0.204
OSTRICH	176.9	26 × 2.73	7 × 2.12	17.28	584	54.0	0.180
MERLIN	179.7	18 × 3.47	1 × 3.47	17.35	532	38.0	0.166
LINNET	198.4	26 × 2.89	7 × 2.25	18.31	654	60.0	0.161
ORIOLE	210.3	30 × 2.69	7 × 2.69	18.83	736	74.5	0.158
CHICKADEE	212.1	18 × 3.77	1 × 3.77	18.85	628	43.5	0.141
BRANT	227.7	24 × 3.27	7 × 2.18	19.62	730	62.5	0.138
IBIS	234.1	26 × 3.14	7 × 2.44	19.88	773	70.2	0.136
LARK	247.8	30 × 2.92	7 × 2.92	20.44	869	87.3	0.134
PELICAN	255.8	18 × 4.14	1 × 4.14	20.70	754	51.0	0.117
FLICKER	273.0	24 × 3.58	7 × 2.39	21.49	876	74.3	0.115
HAWK	280.8	26 × 3.44	7 × 2.67	21.77	928	84.3	0.114
HEN	297.6	30 × 3.20	7 × 3.20	22.40	1043	104.0	0.112
OSPREY	298.2	18 × 4.47	1 × 4.47	22.35	879	58.9	0.100
PARAKEET	318.9	24 × 3.87	7 × 2.58	23.22	1022	85.7	0.098
DOVE	328.5	26 × 3.72	7 × 2.89	23.55	1084	97.5	0.097
EAGLE	347.9	30 × 3.46	7 × 3.46	24.22	1217	119.0	0.095
PEACOCK	345.9	24 × 4.03	7 × 2.69	24.19	1111	93.3	0.091
SQUAB	355.6	26 × 3.87	7 × 3.01	24.51	1178	105.0	0.090
WOOD DUCK	378.7	30 × 3.61	7 × 3.61	25.27	1323	126.0	0.088
TEAL	376.7	30 × 3.61	19 × 2.16	25.24	1313	126.6	0.088
KINGBIRD	341.0	18 × 4.78	1 × 4.78	23.90	1005	66.8	0.088
ROOK	365	24 × 4.14	7 × 2.76	24.84	1168	98.0	0.086
GROSBEAK	374.3	26 × 3.97	7 × 3.09	25.15	1238	110.0	0.085
SCOTER	397.8	30 × 3.70	7 × 3.70	25.90	1391	130.0	0.083
EGRET	396.1	30 × 3.70	19 × 2.22	25.90	1381	133.0	0.084
SWIFT	332.0	36 × 3.38	1 × 3.38	23.66	946	60.6	0.088
FLAMINGO	381.0	24 × 4.23	7 × 2.82	25.38	1224	103.0	0.082
GANNET	393.3	26 × 4.07	7 × 3.16	25.76	1298	116.0	0.081
STILT	410.1	24 × 4.39	7 × 2.92	26.32	1314	110.0	0.076
STARLING	421.1	26 × 4.21	7 × 3.28	26.68	1393	122.0	0.076

6.3 · Code-word series (cont.)

(cont.)

Code	Area mm ²	AI n × mm	AW n × mm	Ø mm	Weight kg/km	Rated kN	R @20°C Ω/km
REDWING	444.5	30 × 3.92	19 × 2.35	27.43	1552	148.0	0.074
TERN	431.6	45 × 3.38	7 × 2.25	27.03	1298	95.4	0.070
CONDOR	454.5	54 × 3.08	7 × 3.08	27.72	1459	124.0	0.069
CUCKOO	454.5	24 × 4.62	7 × 3.08	27.74	1459	122.0	0.069
DRAKE	468	26 × 4.44	7 × 3.45	28.11	1549	136.0	0.068
COOT	413	36 × 3.77	1 × 3.77	26.41	1182	73.8	0.071
MALLARD	495.6	30 × 4.14	19 × 2.48	28.96	1726	165.0	0.067
RUDDY	487.2	45 × 3.59	7 × 2.40	28.73	1470	107.0	0.062
CANARY	515.4	54 × 3.28	7 × 3.28	29.52	1653	138.0	0.061
RAIL	517.4	45 × 3.70	7 × 2.47	29.61	1558	113.0	0.059
CATBIRD	498.1	36 × 4.14	1 × 4.14	28.95	1419	86.6	0.059
CARDINAL	547.3	54 × 3.38	7 × 3.38	30.42	1751	146.0	0.057
ORTOLAN	560.2	45 × 3.85	7 × 2.57	30.81	1687	121.0	0.054
TANAGER	537.3	36 × 4.30	1 × 4.30	30.12	1537	93.7	0.055
CURLEW	593.6	54 × 3.52	7 × 3.52	31.68	1896	158.0	0.053
BLUEJAY	604.4	45 × 4.00	7 × 2.66	31.98	1819	121.0	0.050
FINCH	636.6	54 × 3.65	19 × 2.19	32.85	2043	167.0	0.049

6.4 · Large sizes

ASTM B549 / EN 50182.

Code	Area mm ²	AI n × mm	AW n × mm	Ø mm	Weight kg/km	Rated kN	R @20°C Ω/km
BUNTING	647.6	45 × 4.14	7 × 2.76	33.12	1948	139.0	0.047
GRACKLE	679.7	54 × 3.77	19 × 2.27	33.97	2187	179.0	0.046
BITTERN	689.1	45 × 4.27	7 × 2.85	34.17	2077	149.0	0.044
PHEASANT	726.8	54 × 3.90	19 × 2.34	35.10	2333	189.0	0.043
SKYLARK	664.0	36 × 4.78	1 × 4.78	33.42	1893	114.0	0.044
DIPPER	731.1	45 × 4.40	7 × 2.92	35.16	2207	158.0	0.041
MARTIN	772.1	54 × 4.02	19 × 2.41	36.17	2478	200.0	0.041
BOBOLINK	775.4	45 × 4.53	7 × 3.02	36.24	2337	167.0	0.039
PLOVER	818.7	54 × 4.14	19 × 2.48	37.24	2625	212.0	0.038
NUTHATCH	817.0	45 × 4.65	7 × 3.10	37.20	2467	176.0	0.037
PARROT	863.1	54 × 4.25	19 × 2.55	38.25	2788	224.0	0.036
LAPWING	859.7	45 × 4.77	7 × 3.18	38.16	2598	186.0	0.035
FALCON	908.7	54 × 4.36	19 × 2.62	39.26	2917	236.0	0.035
CHUKAR	976.7	84 × 3.70	19 × 2.22	42.70	2995	220.0	0.031
BLUEBIRD	1181.6	84 × 4.07	19 × 2.44	44.76	3626	262.0	0.026
KIWI	1147.3	72 × 4.41	7 × 2.94	44.10	3367	219.0	0.026
THRASHER	1235.3	76 × 4.43	19 × 2.07	45.79	3678	246.0	0.024
GROUSE	54.8	8 × 2.54	1 × 4.24	9.32	205	21.7	0.635
PETREL	81.7	12 × 2.34	7 × 2.24	11.71	342	44.1	0.469
MINORCA	88.9	12 × 2.44	7 × 2.44	12.22	372	48.0	0.431
LEGHORN	108.0	12 × 2.69	7 × 2.69	13.46	452	57.8	0.354
GUINEA	127.6	12 × 2.92	7 × 2.92	14.63	534	68.0	0.300
DOTTEREL	141.7	12 × 3.08	7 × 3.08	15.42	594	75.4	0.270
DORKING	153.1	12 × 3.20	7 × 3.20	16.03	641	81.3	0.250
BRAHMA	194.8	16 × 2.86	19 × 2.48	18.14	894	120.0	0.216
COCHIN	169.6	12 × 3.37	7 × 3.37	16.84	709	88.0	0.226

**AKZ**

ALUMINIUM KOOHRANG ZAGROS



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01 **Aluminium & alloy rod** مفتول آلومینیوم و آلیاژی

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05 **ACSR** هادی آلومینیوم با مغز فولادی

08 **Messenger** (مسنجر) هادی مهار آلیاژی

02 **Aluminium welding wire** سیم جوش آلومینیوم

04 **AAAC** هادی تمام آلومینیومی آلیاژی

07 **OPGW** سیم محافظ نوری

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