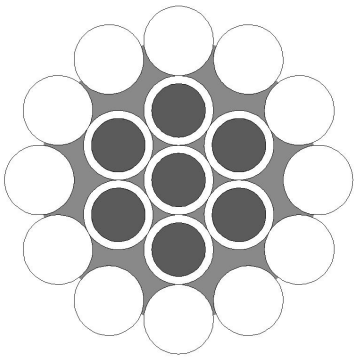
Aluminium Conductor Aluminum Clad Steel Reinforced (ACSR/AW & ACSR/AS)

APPLICATION:

Aluminium Conductors aluminium clad steel reinforced (ACSR/AW&ACSR/AS): are concentrically stranded conductors with one or more layers of hard drawn Aluminium wires on Aluminium Clad steel wire core. The mechanical properties of ACSR/AW conductors are similar to ACSR conductors but offers improved Current-carrying capacity and resistance to corrosion because of the presence of Aluminium clad steel wires in the core. These conductors are better replacement for ACSR conductors where corrosive conditions are severe.



STANDARDS:

- ASTM B-524
- IEC 61089/EN 50182

Qualification Certificate:

For more information, please visit our website:

https://www.huilicablegroup.com/acsr-aw-aluminum-conductor-aluminum-clad-steel-reinforced.html

CONSTRUCTION:

- 1350-H19 Aluminum Wires.
- Aluminum Clad Steel Core.
- Anti-Corrosion Grease
- Conductivity: 14%IACS, 20.3%IACS, 25%IACS, 27%IACS,30%IACS, 35%IACS, 40%IACS.

TECHNICAL PARAMETERS:

ALUMINUM CONDUCTOR ALUMINIUM CLAD STEEL REINFORCED(ACSR/AW) ASTM B524

Code	Sectional Area	Stranding				Diameter of Complete Conductor	Rated Strength	Weight	DC Resistance @20℃	Current Capacity	
		No.of Wires		Wire diameter						75℃	85℃
		Al	Al-Clad Steel	Al	Al-Clad Steel						
	mm2	No.	No.	mm	mm	mm	KN	Kg/Km	Ω/Km	A	A
Thrasher/AW	1178	76	19	4.43	2.07	45.79	246	3679	0.0243	945	1256
Kiwi/AW	1103	72	7	4.41	2.94	44.10	218	3366	0.0260	914	1210
Bluebird/AW	1101	84	19	4.07	2.44	44.76	262	3627	0.0258	922	1221
Chukar/AW	910	84	19	3.70	2.22	40.70	220	2996	0.0313	839	1100
Falcon/AW	816	54	19	4.36	2.62	39.26	236	2917	0.03450	797	1042
Lapwing/AW	811	45	7	4.78	3.18	38.22	186	2598	0.03494	788	1028
Parrot/AW	774	54	19	4.25	2.55	38.25	224	2768	0.03631	776	1012
Nuthatch/AW	770	45	7	4.65	3.10	37.20	177	2467	0.03692	766	996
Plover/AW	734	54	19	4.14	2.48	37.24	212	2625	0.03827	755	982
Bobolink/AW	730	45	7	4.53	3.02	36.24	167	2336	0.03890	745	967
Martin/AW	693	54	19	4.02	2.41	36.17	201	2478	0.04059	732	949
Dipper/AW	689	45	7	4.40	2.93	35.19	158	2207	0.04124	723	935
Pheasant/AW	652	45	19	3.9	2.34	35.10	189	2333	0.05133	651	842
Bittern/AW	649	45	7	4.27	2.85	34.17	149	2078	0.04378	700	903
Skylark/AW	646	36	1	4.78	4.78	33.46	114	1893	0.04407	689	886
Grackle/AW	611	54	19	3.77	2.27	33.97	179	2188	0.04614	677	881
Bunting/AW	609	45	7	4.14	2.76	33.12	139	1948	0.04658	660	872
Finch/AW	571	54	19	3.65	2.19	32.85	167	2043	0.04923	653	848
Bluejay/AW	568	45	7	4.00	2.66	31.98	130	1819	0.04990	634	837
Curlew/AW	530	54	7	3.51	3.51	31.59	158	1896	0.05294	626	813
Ortolan/AW	527	45	7	3.85	2.57	30.81	121	1688	0.05385	608	801
Tanager/AW	525	36	1	4.30	4.30	30.10	94	1537	0.05445	615	784
Cardinal/AW	490	54	7	3.38	3.38	30.42	146	1752	0.05709	599	777
Rail/AW	487	45	7	3.70	2.47	29.61	113	1558	0.05831	589	764
Catbrid/AW	485	36	1	4.14	4.14	28.98	87	1420	0.05874	590	750
Canary/AW	462	54	7	3.28	3.28	29.52	138	1653	0.06062	549	750
Ruddy/AW	459	45	7	3.59	2.40	28.74	107	1470	0.06193	542	738
Mallary/AW	412	30	19	4.14	2.48	28.96	165	1726	0.06639	564	717
Condor/AW	408	54	7	3.08	3.08	27.72	124	1458	0.06875	471	696
Tern/AW	406	45	7	3.38	2.25	27.03	96	1298	0.06988	538	687
Drake/AW	409	26	7	4.44	3.45	28.11	136	1549	0.06798	555	704
Cuckoo/AW	408	24	7	4.62	3.08	27.72	122	1460	0.06875	551	698

NOTE :Current capacity based on conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.

ALUMINUM CONDUCTOR ALUMINIUM CLAD STEEL REINFORCED(ACSR/AW) ASTM B524

Code	Sectional Area	Stranding				Diameter of Complete Conductor	Rated Strength	Weight	DC Resistance @20℃	Current Capacity	
		No.of Wires		Wire diameter						75℃	85℃
		Al	Al-Clad Steel	Al	Al-Clad Steel						
	mm2	No.	No.	mm	mm	mm	KN	Kg/Km	Ω/Km	A	A
Coot/AW	404	36	1	3.77	3.77	26.39	74	1183	0.0708	532	671
Redwing/AW	370	30	19	3.92	2.35	27.43	149	1552	0.0740	531	672
Starling/AW	369	26	7	4.21	3.28	26.68	122	1393	0.0756	524	661
Stilt/AW	367	24	7	4.39	2.92	26.32	110	1314	0.0762	521	657
Gannet/AW	343	26	7	4.07	3.16	25.76	116	1298	0.08091	504	635
Flamingo/AW	342	24	7	4.23	2.82	25.38	103	1225	0.08201	499	629
Egret/AW	329	30	19	3.70	2.22	25.90	133	1381	0.08310	498	628
Sooter/AW	330	30	7	3.70	3.70	25.90	130	1391	0.08296	498	628
Grosbeak/AW	327	26	7	3.97	3.09	25.15	110	1238	0.08502	490	617
Rook/AW	326	24	7	4.14	2.76	24.84	98	1168	0.08562	487	613
Swift/AW	323	36	1	3.38	3.38	23.66	61	946	0.08813	471	590
Kingbird/AW	324	18	1	4.78	4.78	23.90	67	1006	0.08732	480	602
Teal/AW	313	30	19	3.6	2.16	25.24	127	1314	0.08754	483	608
WoodDuck/AW	314	30	7	3.61	3.61	25.27	126	1323	0.08734	484	609
Squab/AW	311	26	7	3.87	3.01	24.51	105	1177	0.08948	476	598
Peacock/AW	310	24	7	4.03	2.69	24.19	93	1112	0.09034	473	593
Eagle/AW	289	30	7	3.46	3.46	24.22	119	1217	0.09508	461	579
Dove/AW	286	26	7	3.72	2.89	23.55	97	1083	0.09685	455	570
Parakeet/AW	286	24	7	3.87	2.58	23.22	86	1022	0.09798	452	565
Ospray/AW	283	18	1	4.47	4.47	22.35	59	880	0.09985	445	555
Hen/AW	247	30	7	3.20	3.20	22.40	104	1043	0.11116	422	527
Hawk/AW	246	26	7	3.44	2.68	21.80	84	929	0.11322	417	519
Flicker/AW	245	24	7	3.58	2.39	21.49	74	877	0.11448	413	515
Pelican/AW	243	18	1	4.14	4.14	20.70	51	755	0.11640	407	506
Lark/AW	206	30	7	2.92	2.92	20.44	87	869	0.13350	380	472
Ibls/AW	204	26	7	3.14	2.44	19.88	70	774	0.13590	375	465
Brant/AW	204	24	7	3.27	2.18	19.62	63	731	0.13720	373	462
Chickadee/AW	202	18	1	3.77	3.77	18.85	44	628	0.14040	366	453
Oriole/AW	174	30	7	2.69	2.69	18.83	74	737	0.15730	346	428
Linnet/AW	173	26	7	2.89	2.25	18.31	60	655	0.16040	341	421
Merlin/AW	171	18	1	3.47	3.47	17.35	38	531	0.16570	333	409
Ostrich/AW	154	26	7	2.73	2.12	17.28	54	583	0.17980	319	393

NOTE :Current capacity based on conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.

ALUMINUM CONDUCTOR ALUMINIUM CLAD STEEL REINFORCED(ACSR/AW) ASTM B524

Code	Sectional Area	Stranding				Diameter of Complete Conductor	Rated Strength	Weight	DC Resistance @20℃	Current Capacity	
		No.of Wires		Wire diameter						75℃	85℃
		Al	Al-Clad Steel	Al	Al-Clad Steel						
	mm2	No.	No.	mm	mm	mm	KN	Kg/Km	Ω/Km	A	A
Partridge/AW	137	26	7	2.57	2.00	16.28	48	519	0.2029	298	365
Waxwing/AW	136	18	1	3.09	3.09	15.45	30	421	0.2089	291	356
Penguin/AW	109	6	1	4.77	4.77	14.31	34	412	0.2525	244	297
Cochin/AW	113	12	7	3.37	3.37	16.85	88	710	0.2252	265	326
Brahma/AW	112	16	19	2.86	2.48	18.12	121	894	0.21570	274	338
Dorking/AW	102	12	7	3.20	3.20	16.00	81	641	0.24980	250	306
Dotterel/AW	95	12	7	3.08	3.08	15.40	75	594	0.26960	239	292
3/0 Pigeon/AW	87	6	1	4.25	4.25	12.75	28	326	0.31810	213	259
Guinea/AW	85	12	7	2.92	2.92	14.60	68	534	0.30000	224	274
3/0(5/2)AWAC	81	5	2	4.44	4.44	13.32	43	418	0.32520	212	258
3/0(12/7)AWAC	77	4	3	4.78	4.78	14.34	63	555	0.31920	217	265
Leghorn/AW	72	12	7	2.69	2.69	13.45	58	452	0.35350	204	248
2/0 Quail/AW	69	6	1	3.8	3.78	11.34	23	259	0.40210	185	224
2/0(5/2)AWAC	64	5	2	3.95	3.95	11.85	36	332	0.41300	184	223
2/0(4/3)AWAC	61	4	3	4.25	4.25	12.75	53	441	0.40210	189	230
Minorca/AW	59	12	7	2.44	2.44	12.20	48	372	0.42960	182	220
Raven/AW	55	6	1	3.37	3.37	10.11	19	205	0.50590	162	195
Petrel/AW	55	12	7	2.34	2.34	11.70	44	342	0.46710	172	209
2/0(3/4)AWAC	57	3	4	4.63	4.63	13.89	73	588	0.39190	195	237
1/0(5/2)AWAC	51	5	2	3.52	3.52	10.56	29	263	0.51740	161	195
1/0(4/3)AWAC	48	4	3	3.79	3.79	11.37	43	348	0.50570	165	200
1 Robin/AW	43	6	1	3.00	3.00	9.00	15	162	0.63830	141	169
Grouse/AW	42	8	1	2.54	4.24	9.32	22	205	0.63400	142	171
1/0(3/4)AWAC	45	3	4	4.13	4.13	12.39	61	466	0.49250	170	206
1 (5/2)AWAC	40	5	2	3.13	3.13	9.39	24	208	0.65440	140	169
1(4/3)AWAC	38	4	3	3.37	3.37	10.11	36	277	0.63960	144	173
2 Sparate/AW	34	7	1	2.47	3.30	8.24	16	149	0.78500	125	150
2 Sparrow/AW	34	6	1	2.67	2.67	8.01	12	129	0.80590	123	147
1/0(2/5)AWAC	41	2	5	4.58	4.58	13.74	87	640	0.47220	177	216
1(3/4)AWAC	36	3	4	3.67	3.67	11.01	50	369	0.62370	148	179
2(5/2)AWAC	32	5	2	2.79	2.79	8.37	19	165	0.82360	122	147
2(4/3)AWAC	31	4	3	3.00	3.00	9.00	29	219	0.80700	125	150

NOTE :Current capacity based on conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.