



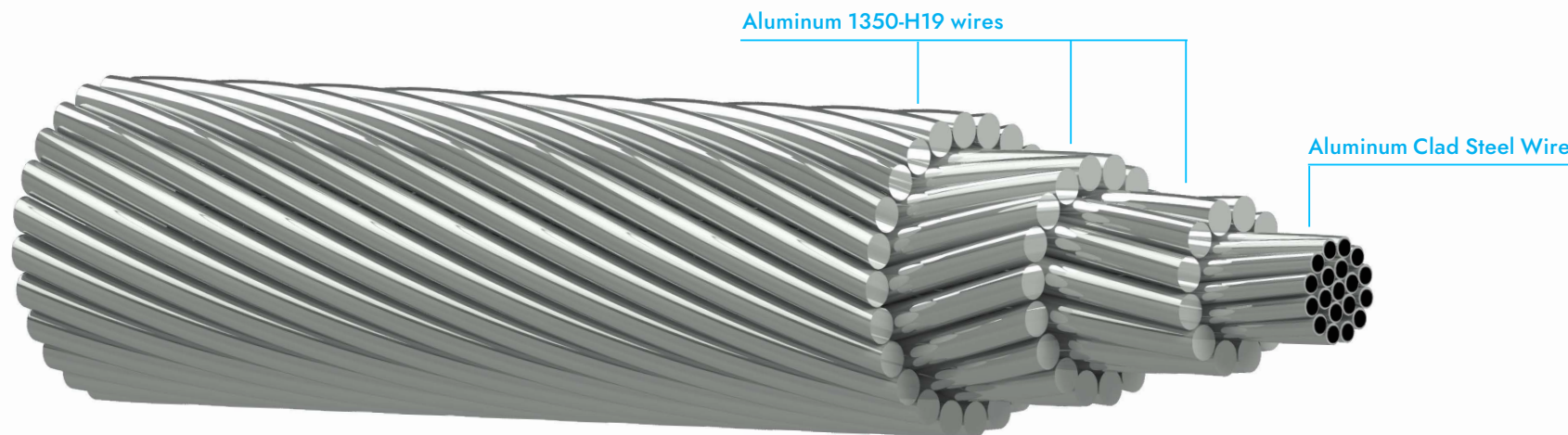
Tomorrow's solutions today

## **ALL ALUMINUM CONDUCTOR ALUMINIUM CLAD STEEL REINFORCED (ACSR/AW or ACSR/AS)**

**All Aluminium Conductors aluminium clad steel reinforced (ACSR/AW OR 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/AS conductors are similar to ACSR conductors but offers improved ampacity 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.

### **Construction**

Aluminum 1350–H19 Wires, concentrically stranded over a central wire/core of Aluminum clad steel.



### **Features:**

- Good mechanical properties
- Improved electrical characteristics
- Excellent corrosion resistance
- Better Sag properties

**Available with Non-Specular (Dull) Surface Finish and Color Coated as per customized requirements.**

**ALL ALUMINUM CONDUCTOR ALUMINIUM CLAD STEEL REINFORCED (ACSR/AW) - ASTM B 524**

Code Word	Conductor size	Sectional Area	Class	Stranding				Diameter of Complete Conductor	Rated Strength	Weight	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter						@ 75°C	@ 85°C
				Aluminum	Aluminium Clad Steel	Aluminum	Aluminium Clad Steel						
				(No.)	(No.)	(mm)	(mm)					(Ampere)	(Ampere)
Thrasher/AW	2324300	1178	AA	76	19	4.43	2.07	45.79	246	3679	0.0243	945	1256
Kiwi/AW	2176100	1103	AA	72	7	4.41	2.94	44.10	218	3366	0.0260	914	1210
Bluebird/AW	2173100	1101	AA	84	19	4.07	2.44	44.76	262	3627	0.0258	922	1221
Chukar/AW	1795200	910	AA	84	19	3.70	2.22	40.70	220	2996	0.0313	839	1100
Falcon/AW	1609800	816	AA	54	19	4.36	2.62	39.26	236	2917	0.03450	797	1042
Lapwing/AW	1601200	811	AA	45	7	4.78	3.18	38.22	186	2598	0.03494	788	1028
Parrot/AW	1528200	774	AA	54	19	4.25	2.55	38.25	224	2768	0.03631	776	1012
Nuthatch/AW	1520500	770	AA	45	7	4.65	3.10	37.20	177	2467	0.03692	766	996
Plover/AW	1448900	734	AA	54	19	4.14	2.48	37.24	212	2625	0.03827	755	982
Bobolink/AW	1440200	730	AA	45	7	4.53	3.02	36.24	167	2336	0.03890	745	967
Martin/AW	1367700	693	AA	54	19	4.02	2.41	36.17	201	2478	0.04059	732	949
Dipper/AW	1360100	689	AA	45	7	4.40	2.93	35.19	158	2207	0.04124	723	935
Pheasant/AW	1287700	652	AA	45	19	3.9	2.34	35.10	189	2333	0.05133	651	842
Bittern/AW	1280600	649	AA	45	7	4.27	2.85	34.17	149	2078	0.04378	700	903
Skylark/AW	1275400	646	AA	36	1	4.78	4.78	33.46	114	1893	0.04407	689	886
Grackle/AW	1206700	611	AA	54	19	3.77	2.27	33.97	179	2188	0.04614	677	881
Bunting/AW	1201000	609	AA	45	7	4.14	2.76	33.12	139	1948	0.04658	660	872
Finch/AW	1127800	571	AA	54	19	3.65	2.19	32.85	167	2043	0.04923	653	848
Bluejay/AW	1120500	568	AA	45	7	4.00	2.66	31.98	130	1819	0.04990	634	837
Curlew/AW	1046100	530	AA	54	7	3.51	3.51	31.59	158	1896	0.05294	626	813
Ortolan/AW	1040000	527	AA	45	7	3.85	2.57	30.81	121	1688	0.05385	608	801
Tanager/AW	1035800	525	AA	36	1	4.30	4.30	30.10	94	1537	0.05445	615	784
Cardinal/AW	966100	490	AA	54	7	3.38	3.38	30.42	146	1752	0.05709	599	777
Rail/AW	960400	487	AA	45	7	3.70	2.47	29.61	113	1558	0.05831	589	764
Catbrid/AW	956600	485	AA	36	1	4.14	4.14	28.98	87	1420	0.05874	590	750
Canary/AW	911400	462	AA	54	7	3.28	3.28	29.52	138	1653	0.06062	549	750
Ruddy/AW	906100	459	AA	45	7	3.59	2.40	28.74	107	1470	0.06193	542	738
Mallary/AW	812700	412	AA	30	19	4.14	2.48	28.96	165	1726	0.06639	564	717
Condor/AW	805000	408	AA	54	7	3.08	3.08	27.72	124	1458	0.06875	471	696
Tern/AW	800400	406	AA	45	7	3.38	2.25	27.03	96	1298	0.06988	538	687
Drake/AW	807600	409	AA	26	7	4.44	3.45	28.11	136	1549	0.06798	555	704
Cuckoo/AW	805000	408	AA	24	7	4.62	3.08	27.72	122	1460	0.06875	551	698

**NOTE :**

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m<sup>2</sup> Solar radiation  
 Customized conductor sizes based on customer's requirement can also be designed.

**ALL ALUMINUM CONDUCTOR ALUMINIUM CLAD STEEL REINFORCED (ACSR/AW) - ASTM B 524**

Code Word	Conductor size	Sectional Area	Class	Stranding				Diameter of Complete Conductor	Rated Strength	Weight	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter						@ 75°C	@ 85°C
				Aluminum	Aluminium Clad Steel	Aluminum	Aluminium Clad Steel						
				(No.)	(No.)	(mm)	(mm)					(Ampere)	(Ampere)
Coot/AW	797200	404	AA	36	1	3.77	3.77	26.39	74	1183	0.07084	532	671
Redwing/AW	730900	370	AA	30	19	3.92	2.35	27.43	149	1552	0.07404	531	672
Starling/AW	727400	369	AA	26	7	4.21	3.28	26.68	122	1393	0.07559	524	661
Stilt/AW	725000	367	AA	24	7	4.39	2.92	26.32	110	1314	0.07616	521	657
Gannet/AW	676600	343	AA	26	7	4.07	3.16	25.76	116	1298	0.08091	504	635
Flamingo/AW	675400	342	AA	24	7	4.23	2.82	25.38	103	1225	0.08201	499	629
Egret/AW	650200	329	AA	30	19	3.70	2.22	25.90	133	1381	0.08310	498	628
Sooter/AW	650500	330	AA	30	7	3.70	3.70	25.90	130	1391	0.08296	498	628
Grosbeak/AW	646100	327	AA	26	7	3.97	3.09	25.15	110	1238	0.08502	490	617
Rook/AW	644000	326	AA	24	7	4.14	2.76	24.84	98	1168	0.08562	487	613
Swift/AW	637700	323	AA	36	1	3.38	3.38	23.66	61	946	0.08813	471	590
Kingbird/AW	639400	324	AA	18	1	4.78	4.78	23.90	67	1006	0.08732	480	602
Teal/AW	618400	313	AA	30	19	3.61	2.16	25.24	127	1314	0.08754	483	608
Wood Duck/AW	618800	314	AA	30	7	3.61	3.61	25.27	126	1323	0.08734	484	609
Squab/AW	614600	311	AA	26	7	3.87	3.01	24.51	105	1177	0.08948	476	598
Peacock/AW	612700	310	AA	24	7	4.03	2.69	24.19	93	1112	0.09034	473	593
Eagle/AW	569700	289	AA	30	7	3.46	3.46	24.22	119	1217	0.09508	461	579
Dove/AW	564800	286	AA	26	7	3.72	2.89	23.55	97	1083	0.09685	455	570
Parakeet/AW	564000	286	AA	24	7	3.87	2.58	23.22	86	1022	0.09798	452	565
Ospray/AW	559000	283	AA	18	1	4.47	4.47	22.35	59	880	0.09985	445	555
Hen/AW	487900	247	AA	30	7	3.20	3.20	22.40	104	1043	0.11116	422	527
Hawk/AW	484600	246	AA	26	7	3.44	2.68	21.80	84	929	0.11322	417	519
Flicker/AW	483000	245	AA	24	7	3.58	2.39	21.49	74	877	0.11448	413	515
Pelican/AW	479600	243	AA	18	1	4.14	4.14	20.70	51	755	0.1164	407	506
Lark/AW	406000	206	AA	30	7	2.92	2.92	20.44	87	869	0.1335	380	472
Ibbs/AW	403300	204	AA	26	7	3.14	2.44	19.88	70	774	0.1359	375	465
Brant/AW	403000	204	AA	24	7	3.27	2.18	19.62	63	731	0.1372	373	462
Chickadee/AW	399200	202	AA	18	1	3.77	3.77	18.85	44	628	0.1404	366	453
Oriole/AW	343700	174	AA	30	7	2.69	2.69	18.83	74	737	0.1573	346	428
Linnet/AW	341300	173	AA	26	7	2.89	2.25	18.31	60	655	0.1604	341	421
Merlin/AW	337800	171	AA	18	1	3.47	3.47	17.35	38	531	0.1657	333	409
Ostrich/AW	304800	154	AA	26	7	2.73	2.12	17.28	54	583	0.1798	319	393

**NOTE :**

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m<sup>2</sup> Solar radiation  
 Customized conductor sizes based on customer's requirement can also be designed.

**ALL ALUMINUM CONDUCTOR ALUMINIUM CLAD STEEL REINFORCED (ACSR/AW) - ASTM B 524**

Code Word	Conductor size	Sectional Area	Class	Stranding				Diameter of Complete Conductor	Rated Strength	Weight	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter						@ 75°C	@ 85°C
				Aluminum	Aluminium Clad Steel	Aluminum	Aluminium Clad Steel						
				(No.)	(No.)	(mm)	(mm)					(Ampere)	(Ampere)
Partridge/AW	271200	137	AA	26	7	2.57	2.00	16.28	48	519	0.2029	298	365
Waxwing/AW	268400	136	AA	18	1	3.09	3.09	15.45	30	421	0.2089	291	356
4/O Penguin/AW	215400	109	AA,A	6	1	4.77	4.77	14.31	34	412	0.2525	244	297
Cochin/AW	223000	113	AA(+)	12	7	3.37	3.37	16.85	88	710	0.2252	265	326
Brahma/AW	220700	112	AA(+)	16	19	2.86	2.48	18.12	121	894	0.2157	274	338
Dorking/AW	201900	102	AA(+)	12	7	3.2	3.20	16.00	81	641	0.2498	250	306
Dotterel/AW	187100	95	AA(+)	12	7	3.08	3.08	15.40	75	594	0.2696	239	292
3/O Pigeon/ AW	170700	87	AA,A	6	1	4.25	4.25	12.75	28	326	0.3181	213	259
Guinea/AW	168000	85	AA(+)	12	7	2.92	2.92	14.60	68	534	0.3000	224	274
3/O (5/2)AWAC	159000	81	AA(+)	5	2	4.44	4.44	13.32	43	418	0.3252	212	258
3/O (12/7)AWAC	151300	77	AA(+)	4	3	4.78	4.78	14.34	63	555	0.3192	217	265
Leghorn/AW	142700	72	AA(+)	12	7	2.69	2.69	13.45	58	452	0.3535	204	248
2/O Quail/AW	135200	69	AA,A	6	1	3.78	3.78	11.34	23	259	0.4021	185	224
2/O (5/2) AWAC	125700	64	AA(+)	5	2	3.95	3.95	11.85	36	332	0.4130	184	223
2/O (4/3)AWAC	120200	61	AA(+)	4	3	4.25	4.25	12.75	53	441	0.4021	189	230
Minorca/AW	117300	59	AA(+)	12	7	2.44	2.44	12.20	48	372	0.4296	182	220
Raven/AW	107700	55	AA,A	6	1	3.37	3.37	10.11	19	205	0.5059	162	195
Petrel/AW	107800	55	AA(+)	12	7	2.34	2.34	11.70	44	342	0.4671	172	209
2/O (3/4)AWAC	113000	57	AA(+)	3	4	4.63	4.63	13.89	73	588	0.3919	195	237
1/O (5/2)AWAC	99700	51	AA(+)	5	2	3.52	3.52	10.56	29	263	0.5174	161	195
1/O (4/3)AWAC	95500	48	AA(+)	4	3	3.79	3.79	11.37	43	348	0.5057	165	200
1 Robin/AW	85400	43	AA,A	6	1	3.00	3.00	9.00	15	162	0.6383	141	169
Grouse/AW	82700	42	AA(+)	8	1	2.54	4.24	9.32	22	205	0.6340	142	171
1/O (3/4)AWAC	89300	45	AA(+)	3	4	4.13	4.13	12.39	61	466	0.4925	170	206
1 (5/2)AWAC	79000	40	AA(+)	5	2	3.13	3.13	9.39	24	208	0.6544	140	169
1 (4/3)AWAC	75200	38	AA(+)	4	3	3.37	3.37	10.11	36	277	0.6396	144	173
2 Sparate/AW	67600	34	AA,A	7	1	2.47	3.30	8.24	16	149	0.7850	125	150
2 Sparrow/AW	67100	34	AA,A	6	1	2.67	2.67	8.01	12	129	0.8059	123	147
1/O (2/5) AWAC	80800	41	AA(+)	2	5	4.58	4.58	13.74	87	640	0.4722	177	216
1 (3/4) AWAC	71200	36	AA(+)	3	4	3.67	3.67	11.01	50	369	0.6237	148	179
2 (5/2) AWAC	62400	32	AA(+)	5	2	2.79	2.79	8.37	19	165	0.8236	122	147
2 (4/3) AWAC	60100	31	AA(+)	4	3	3.00	3.00	9.00	29	219	0.8070	125	150

NOTE :  
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 Customized conductor sizes based on customer's requirement can also be designed.

**ALL ALUMINUM CONDUCTOR ALUMINIUM CLAD STEEL REINFORCED (ACSR/AW) - ASTM B 524**

Code Word	Conductor size	Sectional Area	Class	Stranding				Diameter of Complete Conductor	Rated Strength	Weight	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter						@ 75°C	@ 85°C
				Aluminum	Aluminium Clad Steel	Aluminum	Aluminium Clad Steel						
				(No.)	(No.)	(mm)	(mm)					(Ampere)	(Ampere)
3 Swallow/AW	53900	27.3	A	6	1	2.38	2.38	7.14	10	103	1.0142	107	127
1 (2/5) AWAC	64600	32.7	AA(+)	2	5	4.08	4.08	12.24	73	507	0.5950	155	187
2 (3/4)AWAC	56500	28.6	AA(+)	3	4	3.27	3.27	9.81	43	293	0.7856	129	155
3 (5/2)AWAC	49900	25.3	AA(+)	5	2	2.48	2.48	7.44	16	131	1.0423	106	127
3 (4/3)AWAC	47200	23.9	AA(+)	4	3	2.68	2.68	8.04	23	174	1.0113	110	131
4 Swanate/ AW	43000	21.8	AA,A	7	1	1.96	2.61	6.53	10	93	1.2473	95	113
4 Swan/AW	42700	21.6	AA,A	6	1	2.12	2.12	6.36	8	81	1.2783	93	111
2 (2/5) AWAC	51000	25.8	AA(+)	2	5	3.63	3.63	10.89	60	402	0.7516	135	163
3 (3/4) AWAC	44100	22.3	AA(+)	3	4	2.91	2.91	8.73	34	232	0.9920	112	135
4 (5/2) AWAC	39500	20.0	AA(+)	5	2	2.21	2.21	6.63	12	104	1.3126	93	110
4 (4/3) AWAC	37600	19.1	AA(+)	4	3	2.38	2.38	7.14	19	138	1.2876	95	113
3 (2/5) AWAC	39900	20.2	AA(+)	2	5	3.23	3.23	9.69	50	320	0.9493	117	141
4 (3/4) AWAC	35100	17.8	AA(+)	3	4	2.6	2.60	7.80	27	185	1.2426	98	117
4 (2/5) AWAC	32300	16.4	AA(+)	2	5	2.88	2.88	8.64	40	253	1.1941	102	123

**NOTE :**

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m<sup>2</sup> Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.