

Product Description



Conductor structure: The conductor consists of hard drawn Aluminum wires and Aluminum Alloy wires built up in concentric layers. The center wire or wires are of aluminum alloy wire and the outer layer or layers are of aluminum. The wires are stranded in successive layers in opposite direction and the outer layer is right hand direction Z. Natural grease may be applied between the layers of ACAR except the outer layer.

Package: Coils, Wooden drum or as per requirement

Properties: High tensile strength, Long life, Light weight, Suitable for high as well as extra high overhead voltage lines

Standard: ASTM B238, BS215 part 2, DIN 48204, IEC 61089, CSA C49

Service Performance:

(1) The permissible long-time operating temperature for aerial conductor is 70C.

(2) Under the circumstance that rare climate is occurring and ice coverage rate low in heavy ice area, the biggest stress of cable at the lowest point of the sag should not exceed 60% of the short-time destructive power.

(3) When connecting conductors, the conductor beside the connecting tube can't be prominent. Otherwise, the force on the operating conductors will be unbalanced. After connectors are install, the connecting tube should be painted by moisture-proof varnish in order to protect it from corrosion.

(4) Under installation, the arc downing stress of all the conductors should be the same. Within the permissible distance of crossing buildings or dropping to the ground, the stress can be 10-15% higher than regular stress.

Product application:

ACAR bare conductors are used for overhead high tension power transmission lines having long spans.

Product parameter: (more details please email us: info@himakecable.com)

Code Word	ACAR Size kcmil	Stranding				Cross Sectional Area			Physical Properties			Electrical Properties					
		1350-H19		6201-T81		1350-H19	6201-T81	Total	Nominal Conductor Diameter	Rated Strength	Nominal Mass	Resistance			Reactance		
		No.	Diameter	No.	Diameter							dc 20 °C	ac 25 °C	ac 75 °C	Capacitive	Inductive	GMR
			in		in	in²			in	kip	lb/ft	Ω/ft	Ω/ft	Ω/ft	MΩ/ft	Ω/ft	ft
Pelican	503.6	15	0.1628	4	0.1628	0.3122	0.0833	0.3955	0.814	10.5	473	0.0354	0.0364	0.0433	0.531	0.0841	0.0257
Osprey	587.2	15	0.1758	4	0.1758	0.3641	0.0971	0.4612	0.879	12.2	551	0.0303	0.0312	0.0371	0.518	0.0824	0.0277
Dove	649.5	18	0.1325	19	0.1325	0.2482	0.2620	0.5102	0.927	16.6	608	0.0287	0.0295	0.0349	0.509	0.0812	0.0292
Dove	653.1	12	0.1854	7	0.1854	0.3240	0.1890	0.5130	0.927	15.4	612	0.0279	0.0288	0.0341	0.509	0.0811	0.0293
Grosbeak	739.8	18	0.1414	19	0.1414	0.2827	0.2983	0.5810	0.990	18.8	693	0.0252	0.0259	0.0307	0.499	0.0793	0.0317
Tern	853.7	30	0.1519	7	0.1519	0.5437	0.1268	0.6705	1.063	17.5	801	0.0208	0.0216	0.0257	0.488	0.0777	0.0340
Tern	853.7	24	0.1519	13	0.1519	0.4349	0.2356	0.6705	1.063	19.3	800	0.0213	0.0222	0.0262	0.488	0.0777	0.0340
Drake	927.2	24	0.1583	13	0.1583	0.4723	0.2559	0.7282	1.108	20.9	869	0.0208	0.0216	0.0252	0.482	0.0767	0.0355
Rail	1024.5	30	0.1664	7	0.1664	0.6524	0.1522	0.8046	1.165	20.9	961	0.0173	0.0182	0.0215	0.474	0.0756	0.0373
Rail	1024.5	24	0.1664	13	0.1664	0.5219	0.2827	0.8046	1.165	23.1	961	0.0178	0.0186	0.0219	0.474	0.0756	0.0373
Cardinal	1080.6	24	0.1709	13	0.1709	0.5505	0.2982	0.8487	1.196	24.4	1013	0.0168	0.0176	0.0208	0.470	0.0750	0.0383
Cardinal	1080.6	18	0.1709	19	0.1709	0.4129	0.4358	0.8487	1.196	27.2	1012	0.0172	0.0181	0.0213	0.470	0.0750	0.0383
Ortolan	1109.0	30	0.1731	7	0.1731	0.7060	0.1647	0.8707	1.212	22.7	1041	0.0160	0.0169	0.0199	0.468	0.0747	0.0388
Ortolan	1109.0	24	0.1731	13	0.1731	0.5648	0.3059	0.8707	1.212	25.0	1040	0.0164	0.0172	0.0203	0.468	0.0747	0.0388
Curlew	1172.0	30	0.1780	7	0.1780	0.7465	0.1742	0.9207	1.246	24.0	1100	0.0152	0.0160	0.0189	0.463	0.0740	0.0399
Curlew	1172.0	18	0.1780	19	0.1780	0.4479	0.4728	0.9207	1.246	29.5	1098	0.0159	0.0166	0.0195	0.463	0.0740	0.0399
Bluejay	1198.0	30	0.1799	7	0.1799	0.7626	0.1779	0.9405	1.259	24.5	1124	0.0148	0.0155	0.0184	0.462	0.0738	0.0403
Bluejay	1198.0	24	0.1799	13	0.1799	0.6101	0.3304	0.9405	1.259	27.1	1123	0.0152	0.0159	0.0188	0.462	0.0738	0.0403
Bunting	1277.0	54	0.1447	7	0.1447	0.8880	0.1151	1.0031	1.302	24.6	1199	0.0138	0.0149	0.0174	0.456	0.0729	0.0419
Bunting	1277.0	42	0.1447	19	0.1447	0.6907	0.3124	1.0031	1.302	28.4	1198	0.0142	0.0152	0.0178	0.456	0.0729	0.0419
Bittern	1361.5	54	0.1494	7	0.1494	0.9466	0.1227	1.0693	1.345	26.3	1278	0.0129	0.0138	0.0163	0.451	0.0721	0.0433
Bobolink	1534.4	42	0.1586	19	0.1586	0.8297	0.3754	1.2051	1.427	33.8	1439	0.0118	0.0127	0.0152	0.442	0.0708	0.0459
Lapwing	1703.0	48	0.1671	13	0.1671	1.0527	0.2851	1.3378	1.504	34.6	1598	0.0105	0.0115	0.0135	0.434	0.0696	0.0484
Falcon	1798.0	42	0.1717	19	0.1717	0.9725	0.4399	1.4124	1.545	39.6	1686	0.0101	0.0110	0.0128	0.430	0.0690	0.0497
Chukar	1933.0	42	0.1780	19	0.1780	1.0452	0.4728	1.5180	1.602	42.5	1813	0.0094	0.0102	0.0122	0.424	0.0682	0.0515
Bluebird*	2338.0	42	0.1958	19	0.1958	1.2646	0.5721	1.8367	1.762	51.5	2214	0.0078	0.0089	0.0103	0.409	0.0660	0.0567
Bluebird*	2338.0	48	0.1958	13	0.1958	1.4453	0.3914	1.8367	1.762	47.5	2215	0.0077	0.0088	0.0102	0.409	0.0660	0.0567
Kingfisher*	2493.0	54	0.1655	37	0.1655	1.1617	0.7959	1.9576	1.821	57.6	2358	0.0074	0.0087	0.0100	0.404	0.0652	0.0587
Kingfisher*	2493.0	72	0.1655	19	0.1655	1.5489	0.4087	1.9576	1.821	50.4	2362	0.0072	0.0085	0.0098	0.404	0.0652	0.0587

Product Advantages:

1. The conductor is made of **good quality aluminum wires** and **Zinc coated steel wires**, ensuring a good electrical properties and a very good conductivity and high tension.



2. We are a very **professional cable manufacturer** with advanced production equipments and strict quality inspection system, ensuring the products complying the standard and customized requirement.

Production equipments



Products Quality inspection equipments



3. We have more than **10 years' export experience** and exported products to **more than 60 countries** over the world with a good reputation internationally.





4. We not only offer **good products** and **good service** to our customers, but also try to **develop our staffs**, offer a good training, good working and living conditions to the staffs.



5. Also we are a company with **highly social responsibility**, often take part in public benefits activities, like tree planting, aiding poor students, green environment activities, etc.



