

ACCC[®]

High Performance Conductors for a Low Carbon World™



ACCC[®] Conductor

Composition - Aerospace grade carbon fiber and boron free fiber glass composite conductor core

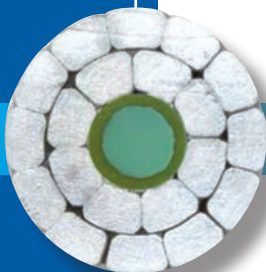
Advantages - Reduced Thermal Sag, Reduced Line Losses; Increased Capacity, Greater Reliability



ACCC[®] ULS Conductor

Composition - Standard ACCC[®] Core with an increased ratio of carbon fiber to glass fiber content

Advantages - Increase strength and stiffness to accommodate ultra-long spans between towers, improve ice load sags



ACCC[®] AZR Conductor

Composition - Uses **AlZr alloy** that is thermally resistant, increasing tensile strength

Advantages - Significant reduction in ice load sag without increased installation tension

**Both Standard and ULS core types can be used in ACCC[®] AZR Conductor*

CTC GLOBAL

US CUSTOMARY SIZES																							
ACCC [®]	Conductor	Diameter		Core Diameter		Weight		Core Rated Strength		Cond. Rated Strength		DC @ 20°C		AC @ 25°C		AC @ 75°C		AC @ 180°C		#Ampacity			
Size	(kcmil)	(mm ²)	(in)	(mm)	(in)	(mm)	(lb/ft)	(kg/km)	(lbf)	(kN)	(lbf)	(kN)	(ohm/mile)	(ohm/km)	(ohm/mile)	(ohm/km)	(ohm/mile)	(ohm/km)	(ohm/mile)	(ohm/km)	75°C	180°C	200°C
OCEANSIDE	383	194.2	0.680	17.27	0.235	5.97	395	588	13,400	59.6	15,800	70.3	0.2319	0.1441	0.2374	0.1475	0.2841	0.1765	0.3822	0.2375	558	938	987
LINET	430	218.1	0.720	18.29	0.235	5.97	439	654	13,400	59.6	16,100	71.6	0.2055	0.1277	0.2103	0.1307	0.2517	0.1564	0.3386	0.2104	602	1,014	1,067
ORIOLE	439	222.3	0.741	18.82	0.280	7.11	462	687	19,100	85.0	21,900	97.5	0.2019	0.1255	0.2065	0.1283	0.2471	0.1535	0.3324	0.2065	612	1,033	1,087
WACO	454	230.1	0.770	19.56	0.305	7.75	486	723	22,700	101.0	25,600	113.9	0.1951	0.1212	0.1996	0.1240	0.2395	0.1488	0.3233	0.2009	628	1,060	1,115
LAREDO	530	268.4	0.807	20.50	0.280	7.11	547	814	19,100	85.0	22,400	99.7	0.1671	0.1038	0.1712	0.1064	0.2053	0.1276	0.2769	0.1720	687	1,162	1,223
IRVING	609	308.8	0.882	22.40	0.345	8.76	648	965	29,000	129.0	32,900	146.3	0.1454	0.0903	0.1491	0.0926	0.1788	0.1111	0.2411	0.1498	753	1,280	1,348
HAWK	611	309.7	0.858	21.79	0.280	7.11	624	928	19,100	85.0	23,000	102.3	0.1448	0.0900	0.1485	0.0923	0.1760	0.1094	0.2338	0.1452	753	1,289	1,358
DOVE	714	361.5	0.927	23.55	0.305	7.75	729	1085	22,700	101.0	27,200	121.0	0.1240	0.0771	0.1274	0.0792	0.1524	0.0947	0.2049	0.1273	826	1,410	1,486
AMARILLO	785	397.6	0.990	25.14	0.375	9.53	826	1230	34,100	151.7	39,100	173.9	0.1131	0.0702	0.1168	0.0725	0.1400	0.0870	0.1890	0.1174	877	1,499	1,579
GROSBEAK	821	416.2	0.990	25.15	0.320	8.13	836	1244	24,900	110.8	30,100	133.9	0.1081	0.0672	0.1114	0.0692	0.1334	0.0829	0.1796	0.1116	898	1,537	1,620
LUBBOCK	904	458.0	1.040	26.42	0.345	8.76	924	1375	29,000	129.0	34,700	154.4	0.0979	0.0608	0.1011	0.0628	0.1210	0.0752	0.1628	0.1011	956	1,640	1,729
GALVESTON	1011	512.4	1.090	27.69	0.345	8.76	1025	1525	29,000	129.0	35,400	157.5	0.0875	0.0544	0.0907	0.0564	0.1084	0.0674	0.1456	0.0905	1,022	1,760	1,856
DRAKE	1026	519.7	1.108	28.14	0.375	9.53	1052	1566	34,100	151.7	40,600	180.6	0.0863	0.0536	0.0892	0.0554	0.1065	0.0662	0.1428	0.0888	1,036	1,786	1,884
CURLEW	1033	523.4	1.140	28.96	0.415	10.54	1088	1618	41,800	185.9	48,400	215.3	0.0862	0.0535	0.0898	0.0558	0.1069	0.0664	0.1429	0.0888	1,042	1,802	1,901
PLANO	1059	536.8	1.127	28.63	0.345	8.76	1073	1596	29,000	129.0	35,700	158.8	0.0840	0.0522	0.0876	0.0544	0.1045	0.0649	0.1400	0.0870	1,050	1,813	1,913
CORPUS CHRISTI	1103	558.9	1.146	29.11	0.345	8.76	1113	1656	29,000	129.0	36,000	160.1	0.0806	0.0501	0.0843	0.0524	0.1005	0.0625	0.1346	0.0836	1,076	1,860	1,962
ARLINGTON	1151	583.2	1.177	29.90	0.375	9.53	1173	1746	34,100	151.7	41,400	184.2	0.0773	0.0480	0.0809	0.0502	0.0964	0.0599	0.1290	0.0802	1,106	1,915	2,021
CARDINAL	1222	619.1	1.198	30.43	0.345	8.76	1225	1823	29,000	129.0	36,800	163.7	0.0728	0.0452	0.0762	0.0473	0.0906	0.0563	0.1208	0.0751	1,146	1,990	2,101
FORT WORTH	1300	658.9	1.240	31.50	0.375	9.53	1312	1953	34,100	151.7	42,400	188.6	0.0684	0.0425	0.0721	0.0448	0.0858	0.0533	0.1145	0.0711	1,189	2,067	2,183
EL PASO	1350	684.0	1.252	31.80	0.345	8.76	1345	2001	29,000	129.0	37,600	167.3	0.0659	0.0409	0.0698	0.0434	0.0829	0.0515	0.1104	0.0686	1,212	2,111	2,230
BEAUMONT	1429	723.9	1.294	32.87	0.375	9.53	1436	2137	34,100	151.7	43,200	192.2	0.0623	0.0387	0.0661	0.0411	0.0785	0.0488	0.1045	0.0649	1,257	2,193	2,317
SAN ANTONIO	1475	747.3	1.315	33.40	0.385	9.78	1484	2208	36,000	160.1	45,400	201.9	0.0603	0.0375	0.0623	0.0387	0.0738	0.0458	0.0978	0.0608	1,302	2,278	2,408
BITTERN	1582	801.4	1.345	34.16	0.385	9.78	1566	2330	29,000	129.0	39,100	173.9	0.0566	0.0352	0.0603	0.0375	0.0714	0.0444	0.0947	0.0589	1,331	2,333	2,466
DALLAS	1795	909.5	1.452	36.88	0.385	9.78	1793	2688	36,000	160.1	47,500	211.3	0.0497	0.0309	0.0546	0.0339	0.0640	0.0398	0.0839	0.0521	1,435	2,541	2,689
HOUSTON	1927	976.6	1.506	38.25	0.415	10.54	1934	2877	41,800	185.9	54,100	240.6	0.0459	0.0285	0.0510	0.0317	0.0596	0.0370	0.0775	0.0482	1,502	2,675	2,833
LAPWING	1949	987.5	1.504	38.20	0.385	9.78	1938	2884	36,000	160.1	48,400	215.3	0.0458	0.0285	0.0507	0.0315	0.0595	0.0370	0.0780	0.0485	1,502	2,665	2,821
FALCON	2045	1036.2	1.545	39.24	0.415	10.54	2045	3042	41,800	185.9	54,900	244.2	0.0436	0.0271	0.0479	0.0298	0.0563	0.0350	0.0739	0.0459	1,555	2,761	2,923
CHUKAR	2242	1135.8	1.604	40.74	0.395	10.03	2221	3304	38,100	169.5	52,400	233.1	0.0398	0.0247	0.0445	0.0277	0.0521	0.0324	0.0681	0.0423	1,633	2,913	3,085
BLUEBIRD	2741	1388.7	1.762	44.75	0.415	10.54	2703	4021	41,800	185.9	59,300	263.7	0.0326	0.0203	0.0387	0.0240	0.0447	0.0278	0.0573	0.0356	1,808	3,274	3,474

#Ampacity values based on 60 Hz, zero elevation, 90° sun altitude, 25°C ambient temperature, 0.5 Solar Absorptivity, 0.5 Emissivity, 2 ft/sec. (0.61 m/sec) wind and 96 W/m² (1033 W/m²), at corresponding surface temperatures. Coefficient of thermal resistance is 0.00404 for ASTM sizes. Different configurations among conductor manufacturers may result in slight variations within the parameters of indicated values for a given size in accordance with the listed specification.

*All bird code name conductors are subject to a code name in the future.

INTERNATIONAL SIZES																							
ACCC [®]	Conductor	Diameter		Core Diameter		Weight		Core Rated Strength		Cond. Rated Strength		DC @ 20°C		AC @ 25°C		AC @ 75°C		AC @ 180°C		#Ampacity			
Size	(kcmil)	(mm ²)	(in)	(mm)	(in)	(mm)	(lb/ft)	(kg/km)	(lbf)	(kN)	(lbf)	(kN)	(ohm/mile)	(ohm/km)	(ohm/mile)	(ohm/km)	(ohm/mile)	(ohm/km)	(ohm/mile)	(ohm/km)	75°C	180°C	200°C
SILVASSA	242	122.7	0.565	14.35	0.235	5.97	264	392	13,400	59.6	15,000	66.5	0.3679	0.2286	0.3758	0.2335	0.4498	0.2795	0.6053	0.3761	423	705	741
HELSINKI	297	150.6	0.616	15.65	0.235	5.97	315	469	13,400	59.6	15,300	68.1	0.2997	0.1862	0.3061	0.1902	0.3664	0.2277	0.4931	0.3064	479	802	843
JAIPUR	307	155.7	0.650	16.51	0.305	7.75	351	522	22,700	101.0	24,700	109.7	0.2898	0.1801	0.2959	0.1839	0.3543	0.2202	0.4770	0.2964	494	829	871
ZADAR	350	177.4	0.673	17.09	0.280	7.11	379	564	19,100	85.0	21,300	94.9	0.2536	0.1576	0.2593	0.1611	0.3103	0.1928	0.4174	0.2594	533	895	942
ROVINJ	371	187.8	0.673	17.09	0.235	5.97	386	575	13,400	59.6	15,800	70.2	0.2393	0.1487	0.2446	0.1520	0.2927	0.1819	0.3938	0.2447	548	922	969
COPENHAGEN	434	219.9	0.720	18.29	0.235	5.97	443	659	13,400	59.6	16,200	72.0	0.2047	0.1272	0.2094	0.1301	0.2506	0.1557	0.3370	0.2094	603	1,017	1,070
REYKJAVIK	440	223.1	0.741	18.82	0.280	7.11	465	692	19,100	85.0	21,900	97.5	0.2021	0.1256	0.2067	0.1285	0.2474	0.1537	0.3327	0.2067	612	1,032	1,087
GDANSK	491	248.8	0.756	19.20	0.235	5.97	498	741	13,400	59.6	16,600	73.6	0.1812	0.1126	0.1856	0.1153	0.2220	0.1379	0.2984	0.1854	649	1,097	1,155
MONTE CARLO	451	228.5	0.818	20.78	0.415	10.54	537	798	41,800	185.9	44,700	198.8	0.1979	0.1230	0.2023	0.1257	0.2221	0.1504	0.3257	0.2024	634	1,076	1,133
GLASGOW	467	236.7	0.769	19.53	0.305	7.75	499	743	22,700	101.0	25,700	114.3	0.1905	0.1184	0.1949	0.1211	0.2332	0.1449	0.3136	0.1949	636	1,076	1,132
CASABLANCA	540	273.6	0.807	20.50	0.280	7.11	559	832	19,100	85.0	22,600	100.4	0.1648	0.1024	0.1688	0.1049	0.2019	0.1255	0.2714	0.1686	692	1,174	1,236
OSLO	619	313.8	0.882	22.40	0.345	8.76	659	981	29,000	129.0	33,000	146.7	0.1437	0.0893	0.1473	0.0915	0.1762	0.1095	0.2367	0.1471	759	1,292	1,361
LISBON	623	315.5	0.858	21.79	0.280	7.11	636	946	19,100	85.0	23,100	102.7	0.1427	0.0887	0.1464	0.0910	0.1751	0.1088	0.2352	0.1461	755	1,285	1,353
AMSTERDAM	725	367.4	0.927	23.55	0.305	7.75	742	1104	22,700	101.0	27,400	121.7	0.1226	0.0762	0.1261	0.0784	0.1507	0.0936	0.2022	0.1256	831	1,419	1,496
CORDOBA	788	399.4	0.961	24.41	0.305	7.75	800	1191	22,700	101.0	27,800	123.4	0.1127	0.0700	0.1165	0.0724	0.1390	0.0864	0.1864	0.1158	873	1,495	1,576
LEIPZIG	802	406.4	0.990	25.15	0.375	9.53	845	1258	34,100	151.7	39,200	174.5	0.1110	0.0690	0.1143	0.0710	0.1365	0.0848	0.1831	0.1138	888	1,522	1,605
BRUSSELS	832	421.4	0.990	25.15	0.320	8.13	849	1264	24,900	110.8	30,200												