



ACCC® International Conductor Comparison

Conductor Name	Size, Aluminum		Cross-Sectional Area, Total	1 Conductor Diameter		Conductor Total Weight		Conductor Rated Strength Total		Resistance, ohm/kft			AC Ampacity @ 75°C	2 AC Ampacity @ 180°C	3 AC Losses Comparison to ACCC® Conductor @ 75°C			AC Losses Comparison to ACCC® Conductor @ 180°C		
	kcmil	mm²		in	mm	lb/kft	kg/km	k lbf	k N	DC @ 20°C	AC @ 25°C	AC @ 75°C			MW	Amps	Temp. °C	MW	Amps	Temp. °C
	ACCC® Helsinki	303	153.7	183.9	0.616	15.7	322	480	15.5	69.1	0.0567	0.0579	0.0694	489	815	2.5	489	75	12.3	815
ACSR 120/20	240	121.6	141.4	0.610	15.5	329	491	10.0	44.5	0.0724	0.0739	0.0864	410	n/a	3.3	489	87	n/a	n/a	n/a
ACSR Waxwing	267	135.2	142.6	0.609	15.5	194	289	6.9	30.6	0.0643	0.0657	0.0787	449	n/a	2.9	489	82	n/a	n/a	n/a
ACCC® Copenhagen	440	223.0	251.0	0.720	18.3	450	670	16.4	72.9	0.0390	0.0399	0.0478	611	1027	2.8	611	75	10.9	1027	180
ACSR Linnet	336	170.4	198.1	0.720	18.3	462	688	14.1	62.7	0.0506	0.0517	0.0619	530	n/a	3.9	611	92	n/a	n/a	n/a
ACSS Linnet	336	170.4	198.1	0.720	18.3	462	688	11.2	49.8	0.0491	0.0503	0.0605	535	897	3.8	611	90	15.7	1027	239
ACCC® Glasgow	473	239.8	287.1	0.769	19.5	504	750	25.9	115.3	0.0363	0.0372	0.0445	643	1083	2.9	643	75	11.3	1083	180
ACSR Brant	398	201.4	227.5	0.772	19.6	511	761	14.6	64.9	0.0430	0.0440	0.0526	584	n/a	3.6	643	90	n/a	n/a	n/a
ACSS Brant	398	201.4	227.5	0.772	19.6	511	761	11.0	48.9	0.0417	0.0428	0.0514	591	954	3.5	643	89	14.7	1083	236
ACCC® Casablanca	546	276.8	316.5	0.807	20.5	565	840	22.7	101.1	0.0311	0.0317	0.0382	694	1170	2.9	694	75	11.2	1170	180
ACSR Lark	398	201.4	248.3	0.806	20.5	622	925	20.3	90.3	0.0425	0.0434	0.0520	594	n/a	4.3	694	99	n/a	n/a	n/a
ACSS Lark	398	201.4	248.3	0.806	20.5	622	925	17.5	77.8	0.0413	0.0423	0.0508	601	973	4.2	694	97	18.1	1170	266
ACCC® Oslo	627	317.7	377.4	0.882	22.4	666	992	33.3	148.1	0.0274	0.0281	0.0337	764	1296	3.1	764	75	12.1	1296	180
ACSR Hen	477	241.7	298.1	0.883	22.4	746	1111	23.8	105.9	0.0354	0.0362	0.0433	666	n/a	4.2	764	90	n/a	n/a	n/a
ACSS Hen	477	241.7	298.1	0.883	22.4	746	1111	21.0	93.4	0.0344	0.0353	0.0423	674	1143	4.1	764	89	17.3	1296	233
ACCC® Lisbon	629	318.7	358.4	0.857	21.8	643	957	23.3	103.7	0.0273	0.0280	0.0336	760	1287	3.1	760	75	12.0	1287	180
ACSR Hawk	477	241.7	280.8	0.858	21.8	656	976	19.5	86.7	0.0357	0.0365	0.0437	660	n/a	4.2	760	91	n/a	n/a	n/a
ACSS Hawk	477	241.7	280.8	0.858	21.8	656	976	15.6	69.4	0.0347	0.0355	0.0427	667	1127	4.1	760	90	17.3	1287	237
ACCC® Amsterdam	733	371.3	418.5	0.927	23.5	748	1113	27.6	122.8	0.0234	0.0241	0.0289	834	1419	3.2	834	75	12.5	1419	180
ACSR Dove	557	282.0	327.9	0.927	23.5	765	1138	22.6	100.5	0.0306	0.0314	0.0375	725	n/a	4.3	834	90	n/a	n/a	n/a
ACSS Dove	557	282.0	327.9	0.927	23.5	765	1138	18.2	81.0	0.0297	0.0305	0.0367	735	1249	4.2	834	89	17.8	1419	233
ACCC® Brussels	839	425.3	477.2	0.990	25.1	857	1275	30.6	136.1	0.0205	0.0212	0.0253	904	1544	3.3	904	75	12.9	1544	180
ACSR Grosbeak	636	322.2	374.6	0.990	25.1	874	1301	25.2	112.1	0.0267	0.0275	0.0329	790	n/a	4.5	904	90	n/a	n/a	n/a
ACSS Grosbeak	636	322.2	374.6	0.990	25.1	874	1301	20.8	92.5	0.0260	0.0268	0.0321	800	1367	4.3	904	88	17.7	1544	230
ACCC® Stockholm	922	467.2	527.5	1.039	26.4	944	1406	35.2	156.5	0.0187	0.0193	0.0231	958	1641	3.4	958	75	13.3	1641	180
ACSR Stilt	716	362.5	409.7	1.036	26.3	921	1370	25.5	113.4	0.0239	0.0246	0.0294	844	n/a	4.5	958	89	n/a	n/a	n/a
ACSS Stilt	716	362.5	409.7	1.036	26.3	921	1370	19.5	86.7	0.0232	0.0239	0.0287	854	1398	4.3	958	87	18.4	1641	250
ACCC® Warsaw	1016	514.6	574.9	1.091	27.7	1034	1539	35.8	159.1	0.0169	0.0176	0.0210	1015	1744	3.4	1015	75	13.7	1744	180
ACSR Cukoo	795	402.8	455.0	1.092	27.7	1023	1522	27.9	124.1	0.0215	0.0222	0.0265	901	n/a	4.5	1015	87	n/a	n/a	n/a
ACSS Cukoo	795	402.8	455.0	1.092	27.7	1023	1522	21.7	96.5	0.0209	0.0216	0.0259	912	1566	4.4	1015	86	18.6	1744	223
ACCC® Dublin	1043	528.7	600.0	1.108	28.2	1072	1595	41.3	183.5	0.0165	0.0171	0.0205	1033	1776	3.4	1033	75	13.8	1776	180
ACSR Drake	795	402.8	468.6	1.108	28.1	1093	1627	31.5	140.1	0.0214	0.0221	0.0264	907	n/a	4.7	1033	89	n/a	n/a	n/a
ACSS Drake	795	402.8	468.6	1.108	28.1	1093	1627	25.9	115.2	0.0208	0.0215	0.0258	918	1573	4.5	1033	88	19.5	1776	229
ACCC® Hamburg	1092	553.5	613.8	1.127	28.6	1106	1646	36.3	161.3	0.0158	0.0164	0.0196	1060	1823	3.4	1060	75	13.9	1823	180
ACSR Drake	795	402.8	468.6	1.108	28.1	1093	1627	31.5	140.1	0.0214	0.0221	0.0264	907	n/a	5.0	1060	93	n/a	n/a	n/a
ACSS Drake	795	402.8	468.6	1.108	28.1	1093	1627	25.9	115.2	0.0208	0.0215	0.0258	918	1573	4.8	1060	91	21.1	1823	242
ACCC® Milan	1134	574.7	635.0	1.146	29.1	1146	1705	36.5	162.4	0.0152	0.0158	0.0189	1083	1865	3.5	1083	75	14.1	1865	180
ACSR Mallard	795	402.8	494.8	1.140	29.0	1234	1836	38.4	170.8	0.0213	0.0219	0.0261	917	n/a	5.2	1083	93	n/a	n/a	n/a
ACSS Mallard	795	402.8	494.8	1.140	29.0	1234	1836	34.3	152.6	0.0207	0.0213	0.0255	928	1597	5.0	1083	92	22.0	1865	245
ACCC® Rome	1183	599.5	670.8	1.177	29.9	1205	1793	42.2	187.5	0.0146	0.0152	0.0182	1112	1918	3.6	1112	75	14.3	1918	180
ACSR Cardinal	954	483.4	545.9	1.196	30.4	1227	1826	33.8	150.4	0.0179	0.0186	0.0228	995	n/a	4.7	1112	87	n/a	n/a	n/a
ACSS Cardinal	954	483.4	545.9	1.196	30.4	1227	1826	26.0	115.7	0.0174	0.0181	0.0223	1008	1705	4.5	1112	85	20.5	1918	229



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Conductor Name	Size, Aluminum		Cross-Sectional Area, Total	1 Conductor Diameter		Conductor Total Weight		Conductor Rated Strength Total		Resistance, ohm/kft			AC Ampacity @75°C	2 AC Ampacity @180°C	3 AC Losses Comparison to ACCC® Conductor @75°C			AC Losses Comparison to ACCC® Conductor @180°C		
	kcmil	mm²		mm²	in	mm	lb/kft	kg/km	k lbf	k N	DC @20°C	AC @25°C			AC @75°C	MW	Amps	Temp. °C	MW	Amps
	ACCC® Vienna	1255	635.8	696.1	1.198	30.4	1258	1872	37.3	165.9	0.0137	0.0143	0.0171	1149	1985	3.6	1149	75	14.4	1985
ACSR Cardinal	954	483.4	545.9	1.196	30.4	1227	1826	33.8	150.4	0.0179	0.0186	0.0228	995	n/a	5.1	1149	91	n/a	n/a	n/a
ACSS Cardinal	954	483.4	545.9	1.196	30.4	1227	1826	26.0	115.7	0.0174	0.0181	0.0223	1008	1705	4.9	1149	89	22.9	1985	246
ACCC® Budapest	1332	675.0	746.3	1.240	31.5	1346	2003	43.1	191.7	0.0129	0.0136	0.0162	1192	2061	3.7	1192	75	14.7	2061	180
ACSR Curlew	1034	523.6	591.2	1.245	31.6	1329	1977	36.6	162.8	0.0165	0.0172	0.0211	1047	n/a	5.0	1192	89	n/a	n/a	n/a
ACSS Curlew	1034	523.6	591.2	1.245	31.6	1329	1977	28.2	125.4	0.0161	0.0168	0.0206	1059	1804	4.9	1192	88	22.1	2061	237
ACCC® Prague	1377	697.7	758.0	1.251	31.8	1377	2050	38.1	169.4	0.0125	0.0132	0.0158	1211	2095	3.7	1211	75	14.8	2095	180
ACSR Curlew	1034	523.6	591.2	1.245	31.6	1329	1977	36.6	162.8	0.0165	0.0172	0.0211	1047	n/a	5.2	1211	91	n/a	n/a	n/a
ACSS Curlew	1034	523.6	591.2	1.245	31.6	1329	1977	28.2	125.4	0.0161	0.0168	0.0206	1059	1804	5.0	1211	90	29.3	2095	245
ACCC® Munich	1461	740.2	811.5	1.293	32.9	1471	2189	43.9	195.4	0.0118	0.0125	0.0149	1254	2176	3.7	1254	75	15.1	2176	180
ACSR Finch	1113	563.9	635.8	1.293	32.8	1430	2128	39.1	173.9	0.0154	0.0161	0.0197	1093	n/a	5.2	1254	90	n/a	n/a	n/a
ACSS Finch	1113	563.9	635.8	1.292	32.8	1430	2128	30.4	135.2	0.0150	0.0157	0.0193	1106	1889	5.0	1254	88	23.2	2176	240
ACCC® London	1512	766.0	841.1	1.315	33.4	1523	2266	46.1	205.2	0.0114	0.0121	0.0144	1281	2225	3.8	1281	75	15.2	2225	180
ACSR Finch	1113	563.9	635.8	1.293	32.8	1430	2128	39.1	173.9	0.0154	0.0161	0.0197	1093	n/a	5.4	1281	93	n/a	n/a	n/a
ACSS Finch	1113	563.9	635.8	1.292	32.8	1430	2128	30.4	135.2	0.0150	0.0157	0.0193	1106	1889	5.3	1281	91	24.9	2225	251
ACCC® Paris	1620	820.7	881.0	1.345	34.2	1603	2385	39.7	176.4	0.0106	0.0113	0.0136	1328	2309	3.8	1328	75	15.4	2309	180
ACSR Bittern	1272	644.5	689.0	1.345	34.2	1432	2131	34.1	151.7	0.0135	0.0144	0.0171	1185	n/a	5.0	1328	87	n/a	n/a	n/a
ACSS Bittern	1272	644.5	689.0	1.345	34.2	1432	2131	22.3	99.2	0.0131	0.0140	0.0167	1199	2088	4.8	1328	85	20.6	2309	218
ACCC® Antwerp	1879	951.9	1027.0	1.451	36.9	1867	2778	48.5	215.7	0.0092	0.0099	0.0119	1446	2527	3.9	1446	75	16.1	2527	180
ACSR Plover	1431	725.1	817.1	1.465	37.2	1838	2735	49.1	218.4	0.0120	0.0127	0.0155	1275	n/a	5.4	1446	88	n/a	n/a	n/a
ACSS Plover	1431	725.1	817.1	1.465	37.2	1838	2735	38.4	170.8	0.0116	0.0124	0.0151	1290	2229	5.2	1446	87	23.8	2527	229
ACCC® Falcon	1985	1005.9	1071.6	1.504	38.2	1984	2953	58.3	259.1	0.0085	0.0087	0.0105	1550	2715	4.0	1550	75	16.5	2715	180
ACSR Lapwing	1590	805.6	861.5	1.504	38.2	1790	2664	42.2	187.7	0.0108	0.0117	0.0139	1355	n/a	5.5	1550	89	n/a	n/a	n/a
ACSS Lapwing	1590	805.6	861.5	1.504	38.2	1790	2664	27.9	124.1	0.0105	0.0115	0.0136	1370	2413	5.4	1550	88	23.2	2715	225
ACCC® Madrid	2020	1023.6	1098.7	1.504	38.2	1999	2975	49.4	219.7	0.0085	0.0093	0.0111	1508	2640	4.1	1508	75	16.0	2640	180
ACSR Lapwing	1590	805.6	861.5	1.504	38.2	1790	2664	42.2	187.7	0.0108	0.0117	0.0139	1355	n/a	5.2	1508	86	n/a	n/a	n/a
ACSS Lapwing	1590	805.6	861.5	1.504	38.2	1790	2664	27.9	124.1	0.0105	0.0115	0.0136	1370	2413	5.0	1508	84	21.4	2640	213

¹ Conductors compared have the same or similar diameter.

² 180°C is ACCC® Conductors' maximum continuous operating temperature.

³ Losses are based upon IEEE 738-2006, 3 phase 10 mile circuit length, 25°C Ambient, 0.5 Emiss., 0.5 Absorp. and 2 ft/sec wind and obtained by matching conductor current to respective ACCC® ampacity at 75°C & 180 °C.

The information contained herein is offered in good faith and believed to be accurate. The final design of a shaped wire compact conductor is contingent upon several factors, such as layer diameter, wire width and wire thickness. The actual configuration of a given size may vary between manufacturers, which may result in a slight variation. However, although the information is mathematically derived, normal dimensional tolerances in actual cable construction may lead to differences between the indicated values.