

ACSR

ALUMINUM CONDUCTOR STEEL REINFORCED

Concentric Lay

Aluminum 1350 Wire

Steel Core



OmniCable Part #	Size	Stranding	Diameter (in.)			Weight Per kft. (lbs.)			Rated Strength (lb/ft)	Resistance OHMS/1000 ft. DC @ 20°	Resistance OHMS/1000 ft. AC @ 75°	Allowable Ampacity (Amps)*
			AL	Steel	Total	AL	Steel	Total				
Turkey	6	6/1	0.0661	0.0661	0.1980	24.5	11.6	36.1	1190	0.6410	0.8060	105
Swan	4	6/1	0.0834	0.0834	0.2500	39.0	18.4	57.4	1860	0.4030	0.5150	140
Swanate	4	7/1	0.0772	0.1030	0.2570	39.0	28.0	67.0	2360	0.3990	0.5190	140
Sparrow	2	6/1	0.1052	0.1052	0.3160	62.0	29.3	91.3	2850	0.2540	0.3320	184
Sparate	2	7/1	0.0974	0.1298	0.3250	62.0	44.7	106.7	3460	0.2510	0.3380	184
Robin	1	6/1	0.1181	0.1181	0.3550	78.2	37.0	115.2	3550	0.2010	0.2680	212
Raven	1/0	6/1	0.1327	0.1327	0.3980	98.7	46.6	145.3	4380	0.1590	0.2170	242
Quail	2/0	6/1	0.1489	0.1489	0.4470	124.3	58.8	183.1	5310	0.1260	0.1760	276
Pigeon	3/0	6/1	0.1672	0.1672	0.5020	156.7	74.1	230.8	6620	0.1000	0.1440	315
Penguin	4/0	6/1	0.1878	0.1878	0.5630	197.7	93.4	291.1	8350	0.0795	0.1190	357
Waxwing	266.8	18/1	0.1217	0.1217	0.6090	250.3	39.2	289.5	6880	0.0643	0.0787	449
Partridge	266.8	26/7	0.1013	0.0788	0.6420	251.7	115.6	367.3	11300	0.0637	0.0779	475
Ostrich	300	26/7	0.1074	0.0835	0.6800	283.0	130.0	412.0	12700	0.0567	0.0693	492
Merlin	336.4	18/1	0.1367	0.1367	0.6840	315.8	49.5	365.3	8680	0.0510	0.0625	519
Linnet	336.4	26/7	0.1137	0.0885	0.7210	317.1	145.5	462.6	14100	0.0505	0.0618	529
Oriole	336.4	30/7	0.1059	0.1059	0.7410	381.0	209.0	526.0	17300	0.0502	0.0613	535
Chickadee	397.5	18/1	0.1486	0.1486	0.7430	373.1	58.5	431.6	9940	0.0432	0.0529	576
Brant	397.5	24/7	0.1287	0.0858	0.7720	374.0	137.0	511.0	14600	0.0430	0.0526	584
Ibis	397.5	26/7	0.1236	0.0962	0.7930	374.7	171.9	546.6	16300	0.0428	0.0523	587
Lark	397.5	30/7	0.1151	0.1151	0.8060	375.0	247.0	622.0	20300	0.0425	0.0519	594
Pelican	477	18/1	0.1628	0.1628	0.8140	447.8	70.2	518.0	11800	0.0360	0.0442	646
Flicker	477	24/7	0.1410	0.0940	0.8460	449.0	164.0	614.0	17200	0.0358	0.0439	655
Hawk	477	26/7	0.1354	0.1053	0.8580	449.6	206.4	656.0	19500	0.0356	0.0436	659
Hen	477	30/7	0.1261	0.1261	0.8830	451.1	296.3	747.4	23800	0.0354	0.0433	666
Osprey	556.5	18/1	0.1758	0.1758	0.8790	522.0	82.0	603.0	13700	0.0308	0.0379	711
Parakeet	556.5	24/7	0.1523	0.1015	0.9140	525.0	191.8	716.8	19800	0.0307	0.0376	721
Dove	556.5	26/7	0.1463	0.1138	0.9270	525.0	241.0	766.0	22600	0.0306	0.0375	726
Eagle	556.5	30/7	0.1362	0.1362	0.9530	525.0	345.0	871.0	27800	0.0303	0.0372	734
Peacock	605	24/7	0.1588	0.1059	0.9530	570.0	209.0	779.0	21600	0.0282	0.0346	760
Squab	605	26/7	0.1525	0.1186	0.9660	570.0	262.0	832.0	24300	0.0281	0.0345	765
Wood Duck	605	30/7	0.1420	0.1420	0.9940	571.0	375.0	946.0	28900	0.0279	0.0342	774
Teal	605	30/19	0.1420	0.0852	0.9940	571.0	367.0	939.0	30000	0.0279	0.0342	773
Kingbird	636	18/1	0.1880	0.1880	0.9400	597.2	93.6	690.8	15700	0.0270	0.0332	773
Swift	636	36/1	0.1329	0.1329	0.9300	596.0	47.0	643.0	13690	0.0271	0.0334	769
Rook	636	24/7	0.1628	0.1085	0.9770	600.0	219.2	819.2	22600	0.0268	0.0330	784
Grosbeak	636	26/7	0.1564	0.1216	0.9900	600.0	275.2	875.2	25200	0.0267	0.0328	789
Scoter	636	30/7	0.1456	0.1456	1.0190	600.0	395.0	995.0	30400	0.0256	0.0325	798
Egret	636	30/19	0.1456	0.0874	1.0190	600.0	386.0	987.0	31500	0.0266	0.0326	798
Flamingo	666.6	24/7	0.1667	0.1111	1.0000	629.1	229.8	858.9	23700	0.0256	0.0315	807
Gannet	666.6	24/7	0.1601	0.1245	1.0140	629.0	289.0	916.0	26400	0.0255	0.0313	812
Stilt	715.5	24/7	0.1727	0.1151	1.0360	674.0	247.0	920.0	25500	0.0239	0.0294	844
Starling	715.5	26/7	0.1659	0.1290	1.0510	674.0	310.0	984.0	28400	0.0238	0.0292	849
Redwing	715.5	30/19	0.1544	0.0927	1.0810	676.0	435.0	1110.0	34600	0.0236	0.0290	859
Coot	795	36/1	0.1486	0.1486	1.0400	745.0	58.0	804.0	16710	0.0217	0.0268	884

- All drawings, designs, specifications, plans and particulars of weights, sizes and dimensions contained in the technical or commercial documentation of OmniCable is indicative only and shall not be binding on OmniCable or be treated as constituting a representation on the part of OmniCable.
* Ampacities shown are for general use as specified by the National Electrical Code, Article 310.15

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			AL	Steel	Total	AL	Steel	Total				
Drake	795	26/7	0.1749	0.1360	1.1080	750.0	344.0	1094.0	31500	0.0214	0.0263	907
Tern	795	45/7	0.1329	0.0886	1.063	749	146	895	22100	0.0216	0.0269	887
Condor	795	54/7	0.1213	0.1213	1.092	749	274	1023	28200	0.0215	0.0272	889
Mallard	795	30/19	0.1628	0.0977	1.140	751	483	1234	38400	0.0213	0.0261	918
Ruddy	900	45/7	0.1414	0.0943	1.131	849	166	1015	24400	0.0191	0.0239	958
Canary	900	54/7	0.1291	0.1291	1.162	849	310	1159	31900	0.0190	0.0241	961
Rail	954	45/7	0.1456	0.0971	1.165	900	176	1076	25900	0.0181	0.0225	993
Cardinal	954	54/7	0.1329	0.1329	1.196	900	329	1229	33800	0.0179	0.0228	996
Ortolan	1033.5	45/7	0.1515	0.1010	1.212	974	190	1163	27700	0.0167	0.0209	1043
Curlew	1033.5	54/7	0.1383	0.1383	1.244	974	356	1330	36600	0.0165	0.0211	1047
Bluejay	1113	45/7	0.1573	0.1048	1.259	1050	205	1255	29800	0.0155	0.0194	1092
Finch	1113	54/19	0.1436	0.0861	1.293	1055	376	1431	39100	0.0154	0.0197	1093
Bunting	1192.5	45/7	0.1628	0.1085	1.302	1125	219	1344	32000	0.0144	0.0182	1139
Grackle	1192.5	54/19	0.1486	0.0892	1.337	1129	402	1531	41900	0.0144	0.0184	1140
Bittern	1272	45/7	0.1681	0.1121	1.345	1200	234	1434	34100	0.0135	0.0171	1184
Pheasant	1272	54/19	0.1535	0.0921	1.381	1204	429	1633	43600	0.0135	0.0173	1187
Dipper	1351.5	45/7	0.1733	0.1155	1.386	1273	248	1521	36200	0.0127	0.0162	1229
Martin	1351.5	54/19	0.1582	0.0949	1.424	1279	456	1735	46300	0.0127	0.0163	1232
Bobolink	1431	45/7	0.1783	0.1189	1.427	1348	263	1611	38300	0.0120	0.0153	1272
Plover	1431	54/19	0.1628	0.0977	1.465	1357	483.1	1840	49100	0.0120	0.0155	1275
Lapwing	1590	45/7	0.1880	0.1253	1.504	1498	292	1790	42200	0.0108	0.0139	1354
Falcon	1590	54/19	0.1716	0.103	1.544	1505	536	2041	54500	0.0108	0.0140	1359
Chukar	1780	84/19	0.1456	0.0874	1.602	1685	386	2072	51000	0.0097	0.0125	1453
Bluebird	2156	84/19	0.1602	0.0962	1.762	2040	468	2508	60300	0.00801	0.0105	1623
Kiwi	2167	72/7	0.1735	0.1157	1.735	2051	249	2300	49800	0.00801	0.0106	1607

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APPLICATION:

This wire is suitable for use in all practical spans on wood poles, transmission towers, and other structures. Applications range from long, extra high voltage (EHV) transmission lines to sub-service spans at distribution or utilization voltages on private premises.

ACSR (aluminum conductor steel reinforced) has a long service record because of its economy, dependability, and strength to weight ratio. The combined light weight and high conductivity of aluminum with strength of the steel core enables higher tensions, less sag, and longer spans than any alternative.

CONSTRUCTION:

A solid or concentric stranded central steel core is surrounded by one or more layers of concentric stranded aluminum alloy 1350. The wire is protected from corrosion with a zinc coating.

ADDITIONAL STANDARDS:

- ASTM B-232: Concentric Lay Aluminum Conductors
- ASTM B-230: Aluminum 1350-H19 Wire for Electrical Purposes
- ASTM B-498: Zinc Coated (Galvanized) Steel Core Wire for ACSR