DONGCHAO

ACSR

ALUMINUM CONDUCTOR STEEL REINFORCED

APPLICATIONS

ACSR (ALUMINUM CONDUCTOR STEEL REINFORCED) WIRE FOR USE IN OVERHEAD POWER TRANSMISSION AND DISTRIBUTION LINES

CONSTRUCTION

CONCENTRICALLY STRANDED CONDUCTOR CONSISTING OF ONE OR MORE LAYERS OF ALUMINUM ALLOY 1350-H119 WIRES AROUND A STRANDED STEEL CORE

STANDARDS

ASTM B-230: ALUMINUM WIRE, 1350-H19 FOR ELECTRICAL PURPOSES
ASTM B-231: ALUMINUM CONDUCTORS, CONCENTRIC-LAY-STRANDED
ASTM B-232: ALUMINUM CONDUCTORS, CONCENTRIC-LAY-STRANDED, COATED STEEL REINFORCED (ACSR)
ASTM B-341: ALUMINUM-COATED STEEL CORE WIRE FOR ALUMINUM CONDUCTORS, STEEL REINFORCED (ACSR/AZ)
ASTM B-498: ZINC-COATED STEEL CORE WIRE FOR ALUMINUM CONDUCTORS, STEEL REINFORCED (ACSR)
ASTM B-500: METALLIC COATED STRANDED STEEL CORE FOR ALUMINUM CONDUCTORS, STEEL REINFORCED (ACSR)

CODE NAME	CONDUCTOR SIZE	STRAND	NOM. OD (INCHES)			NOM. WEIGHT (LBS/MFT)			RATED BREAKING STRENGTH	RESISTANCE OHMS/MFT	RESISTANCE OHMS/MFT	ALLOWABLE AMPACITY
	(AWG/KCMIL)		AL	STEEL	CBL OD	AL	STEEL	CBL OD	(LBS/MFT)	DC @ 20°	DC @ 75°	(AMPS)
TURKEY	6	6/1	0.066	0.066	0.198	24.5	11.6	36.1	1190	0.641	0.806	105
SWAN	4	6/1	0.083	0.083	0.250	39	18.4	57.4	1860	0.403	0.515	140
SWANATE	4	7/1	0.077	0.103	0.257	39	28.0	67	2360	0.399	0.519	140
SPARROW	2	6/1	0.105	0.105	0.316	62	29.3	91.3	2850	0.254	0.332	184
SPARATE	2	7/1	0.097	0.130	0.325	62	44.7	106.7	3460	0.251	0.338	184
ROBIN	1	6/1	0.118	0.118	0.355	78.2	37.0	115.2	3550	0.201	0.268	212
RAVEN	1/0	6/1	0.133	0.133	0.398	98.7	46.6	145.3	4380	0.159	0.217	242
QUAIL	2/0	6/1	0.149	0.149	0.447	124.3	58.8	183.1	5310	0.126	0.176	276
PIGEON	3//0	6/1	0.167	0.167	0.502	156.7	74.1	230.8	6620	0.100	0.144	315
PENGUIN	4/0	6/1	0.188	0.188	0.563	197.7	93.4	291.1	8350	0.080	0.119	357
WAXWING	266.8	18/1	0.122	0.122	0.609	250.3	39.2	289.5	6880	0.064	0.079	449
PARTRIDGE	266.8	26/7	0.101	0.079	0.642	251.7	115.6	367.3	11300	0.064	0.078	475
OSTRICH	300	26/7	0.107	0.084	0.680	283	130	412	12700	0.057	0.069	492
MERLIN	336.4	18/1	0.137	0.137	0.684	315.8	49.5	365.3	8680	0.051	0.063	519
LINNET	336.4	26/7	0.114	0.089	0.721	317.1	145.5	462.6	14100	0.051	0.062	529
ORIOLE	336.4	30/7	0.106	0.106	0.741	381	209	526	17300	0.050	0.061	535
CHICKADEE	397.5	18/1	0.149	0.149	0.743	373.1	58.5	431.6	9940	0.043	0.053	576
BRANT	397.5	24/7	0.129	0.086	0.772	374	137	511	14600	0.043	0.053	584
IBIS	397.5	26/7	0.124	0.096	0.793	374.7	171.9	546.6	16300	0.043	0.052	587
LARK	397.5	30/7	0.115	0.115	0.806	375	247	622	20300	0.043	0.052	594
PELICAN	477	18/1	0.163	0.163	0.814	447.8	70.2	518	11800	0.036	0.044	646
FLICKER	477	24/7	0.141	0.094	0.846	449	164	614	17200	0.036	0.044	655
HAWK	477	26/7	0.135	0.105	0.858	449.6	206.4	656	19500	0.036	0.044	659
HEN	477	30/7	0.126	0.126	0.883	451.1	296.3	747.4	23800	0.035	0.043	666
OSPREY	556.5	18/1	0.176	0.176	0.879	522	82	603	13700	0.031	0.038	711
PARAKEET	556.5	24/7	0.152	0.102	0.914	525	191.8	716.8	19800	0.031	0.038	721
DOVE	556.5	26/7	0.146	0.114	0.927	525	241	766	22600	0.031	0.038	726
EAGLE	556.5	30/7	0.136	0.136	0.953	525	345	871	27800	0.030	0.037	734
PEACOCK	605	24/7	0.159	0.106	0.953	570	209	779	21600	0.028	0.035	760

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CODE NAME	CONDUCTOR SIZE	STRAND	NOM. OD (INCHES)			NOM. WEIGHT (LBS/MFT)			RATED BREAKING STRENGTH	RESISTANCE OHMS/MFT	RESISTANCE OHMS/MFT	ALLOWABLE AMPACITY
	(AWG/KCMIL)		AL	STEEL	CBL OD	AL	STEEL	CBL OD	(LBS/MFT)	DC @ 20°	DC @ 75°	(AMPS)
SQUAB	605	26/7	0.153	0.119	0.966	570	262	832	24300	0.028	0.035	765
WOOD DUCK	605	30/7	0.142	0.142	0.994	571	375	946	28900	0.028	0.034	774
TEAL	605	30/19	0.142	0.085	0.994	571	367	939	30000	0.028	0.034	773
KINGBIRD	636	18/1	0.188	0.188	0.940	597.2	93.6	690.8	15700	0.027	0.033	773
SWIFT	636	36/1	0.133	0.133	0.930	596	47	643	13690	0.027	0.033	769
ROOK	636	24/7	0.163	0.109	0.977	600	219.2	819.2	22600	0.027	0.033	784
GROSBEAK	636	26/7	0.156	0.122	0.990	600	275.2	875.2	25200	0.027	0.033	789
SCOTER	636	30/7	0.146	0.146	1.019	600	395	995	30400	0.026	0.033	798
EGRET	636	30/19	0.146	0.087	1.019	600	386	987	31500	0.027	0.033	798
FLAMINGO	666.6	24/7	0.167	0.111	1.000	629.1	229.8	858.9	23700	0.026	0.032	807
GANNET	666.6	24/7	0.160	0.125	1.014	629	289	916	26400	0.026	0.031	812
STILT	715.5	24/7	0.173	0.115	1.036	674	247	920	25500	0.024	0.029	844
STRARLING	715.5	26/7	0.166	0.129	1.051	674	310	984	28400	0.024	0.029	849
REDWING	715.5	30/19	0.154	0.093	1.081	676	435	1110	34600	0.024	0.029	859
COOT	795	36/1	0.149	0.149	1.040	745	58	804	16710	0.022	0.027	884
DRAKE	795	26/7	0.175	0.136	1.108	750	344	1094	31500	0.021	0.026	907
TERN	795	45/7	0.133	0.089	1.063	749	146	895	22100	0.022	0.027	887
CONDOR	795	54/7	0.121	0.121	1.092	749	274	1023	28200	0.022	0.027	889
MALLARD	795	30/19	0.163	0.098	1.140	751	483	1234	38400	0.021	0.026	918
RUDDY	900	45/7	0.141	0.094	1.131	849	166	1015	24400	0.019	0.024	958
CANARY	900	54/7	0.129	0.129	1.162	849	310	1159	31900	0.019	0.024	961
RAIL	954	45/7	0.146	0.097	1.165	900	176	1076	25900	0.018	0.023	993
CARDINAL	954	54/7	0.133	0.133	1.196	900	329	1229	33800	0.018	0.023	996
ORTOLAN	1033.5	45/7	0.152	0.101	1.212	974	190	1163	27700	0.017	0.021	1043
CURLEW	1033.5	54/7	0.138	0.138	1.244	974	356	1330	36600	0.017	0.021	1047
BLUEJAY	1113	45/7	0.157	0.105	1.259	1050	205	1255	29800	0.016	0.019	1092
FINCH	1113	54/19	0.144	0.086	1.293	1055	376	1431	39100	0.015	0.020	1093
BUNTING	1192.5	45/7	0.163	0.109	1.302	1125	219	1344	32000	0.014	0.018	1139
GRACKLE	1192.5	54/19	0.149	0.089	1.337	1129	402	1531	41900	0.014	0.018	1140
BITTERN	1272	45/7	0.168	0.112	1.345	1200	234	1434	34100	0.014	0.017	1184
PHEASANT	1272	54/19	0.154	0.092	1.381	1204	429	1633	43600	0.014	0.017	1187
DIPPER	1351.5	45/7	0.173	0.116	1.386	1273	248	1521	36200	0.013	0.016	1229
MARTIN	1351.5	54/19	0.158	0.095	1.424	1279	456	1735	46300	0.013	0.016	1232
BOBOLINK	1431	45/7	0.178	0.119	1.427	1348	263	1611	38300	0.012	0.015	1272
PLOVER	1431	54/19	0.163	0.098	1.465	1357	483	1840	49100	0.012	0.016	1275
LAPWING	1590	45/7	0.188	0.125	1.504	1498	292	1790	42200	0.011	0.014	1354
FALCON	1590	54/19	0.172	0.103	1.544	1505	536	2041	54500	0.011	0.014	1359
CHUKAR	1780	84/19	0.146	0.087	1.602	1685	386	2072	51000	0.010	0.013	1453
BLUEBIRD	2156	84/19	0.160	0.096	1.762	2040	468	2508	60300	0.008	0.011	1623
KIWI	2167	72/7	0.174	0.116	1.735	2051	249	2300	49800	0.008	0.011	1607

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