



Detail Description or Construction Conductor

Concentric stranded hard
drawn aluminum wire

Steel Core

Galvanized steel (Zinc coated) wire,
solid or concentric stranded

Application

Used as bare overhead transmission and
as primary and secondary distribution cable.
ACSR offers optimal strength for line design.
Variable steel core stranding enables desired
strength to be achieved without sacrificing
ampacity.

Standards / Testing Specifications

- ACSR are design according to international
and recognized and accepted standard
ASTM: B-230, B-232, B-498, B-500;
TIS 86-2522 (Thai Industrial Standard
86-2522); IEC or any standard as requested.

Installation

It is recommended that the installation
instructions indicated by the Local Electric
Code, or any equivalent, be followed, so
that the safeguarding of persons and the
integrity of the product will not be affected
by deficiencies in the installation.

Standard Packaging

As provided by the Aluminum Association.



ACSR

Aluminum Conductor Steel Reinforced

Code	Size	Section		Stranding Design		Stranding		Diameter		Total Weight	Rated Strength	Maximum Resistance @ 20°C
		Al	Total	Al	Steel	Al	Steel	Cable	Steel			
	AWG or MCM	in ²						in		in		lb/1000ft
Turkey	6	0.0206	0.0240	6	1	0.0661	0.0661	0.198	0.0661	36.2	1,190	0.414
Swan	4	0.0328	0.0383	6	1	0.0835	0.0835	0.250	0.0835	57.8	1,865	0.414
Swanate	4	0.0328	0.0411	7	1	0.0772	0.1028	0.283	0.103	67.3	2,352	0.414
Sparrow	2	0.0521	0.0608	6	1	0.1051	0.1051	0.315	0.105	91.8	2,842	0.261
Sparate	2	0.0521	0.0653	7	1	0.0972	0.1299	0.325	0.130	106.9	3640	0.251
Robin	1	0.0657	0.0767	6	1	0.118	0.118	0.355	0.118	115.8	3,554	0.204
Raven	1/0	0.0829	0.0967	6	1	0.133	0.133	0.398	0.133	146.2	4,381	0.161
Quail	2/0	0.105	0.122	6	1	0.149	0.149	0.446	0.149	184.1	5,293	0.130
Pigeon	3/0	0.132	0.154	6	1	0.167	0.167	0.502	0.167	232.3	6,627	0.103
Penguin	4/0	0.166	0.194	6	1	0.188	0.188	0.563	0.188	292.8	8,349	0.0817
*Owl	266.8	0.209	0.237	6	7	0.211	0.0705	0.633	0.211	340.7	9550	0.0643
Waxwing	266.8	0.209	0.222	18	1	0.122	0.122	0.609	0.122	289.7	6,872	0.0646
Partridge	266.8	0.210	0.243	26	7	0.101	0.0787	0.641	0.235	368.1	11,272	0.0648
Merlin	336.4	0.265	0.279	18	1	0.137	0.137	0.684	0.137	365.6	8,666	0.0512
Linnet	336.4	0.265	0.307	26	7	0.114	0.0886	0.721	0.265	463.0	14,840	0.0507
Ibis	397.5	0.312	0.363	26	7	0.124	0.0961	0.783	0.288	547.0	16,508	0.0430
Lark	397.5	0.312	0.384	30	7	0.115	0.115	0.806	0.345	623.0	20,287	0.0427
Pelican	477	0.375	0.395	18	1	0.163	0.163	0.814	0.163	518.1	11,788	0.0361
Flicker	477	0.375	0.423	24	7	0.141	0.0941	0.846	0.282	616.3	17,170	0.0362
Hawk	477	0.375	0.436	26	7	0.135	0.105	0.857	0.316	657.4	19,580	0.0357
Hen	477	0.375	0.462	30	7	0.126	0.126	0.883	0.378	747.3	23,772	0.0355



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		Al	Total	Al	Steel	Al	Steel	Cable	Steel			
		in ²				in						
AWG or MCM	in ²		Al	Steel	in		in		lb/1000ft	lbs	Ω / 1000ft	
*Heron	500	0.392	0.484	30	7	0.129	0.129	0.904	0.387	780.9	24,450	0.0348
Osprey	556.5	0.437	0.462	18	1	0.176	0.176	0.879	0.176	604.2	13,741	0.0309
Parakeet	556.5	0.437	0.494	24	7	0.152	0.102	0.914	0.304	717.1	19,839	0.0308
Kingbird	636	0.499	0.527	18	1	0.188	0.188	0.940	0.188	690.9	15,714	0.0273
Grosbeak	636	0.499	0.581	26	7	0.156	0.122	0.990	0.365	875	25,192	0.0268
Flamingo	666.6	0.524	0.592	24	7	0.167	0.111	0.606	0.333	858.9	23,701	0.0257
Starling	715.5	0.563	0.654	26	7	0.166	0.129	1.051	0.387	984.5	28,362	0.0238
Cuckoo	795	0.625	0.705	24	7	0.182	0.121	1.092	0.364	1,026.2	27,886	0.0218
Drake	795	0.625	0.725	26	7	0.175	0.136	1.108	0.408	1,094.1	31,656	0.0215
Mallard	795	0.625	0.767	30	19	0.163	0.0976	1.140	0.489	1,235.2	40,540	0.0213
Condor	795	0.625	0.705	54	7	0.121	0.121	1.093	0.364	1,026.2	28,150	0.0218
Rail	954	0.749	0.801	45	7	0.146	0.0972	1.165	0.291	1,075.3	25,950	0.0181
Cardinal	954	0.749	0.846	54	7	0.133	0.133	1.196	0.399	1,229.2	35,985	0.0180
Ortolan	1033.5	0.812	0.868	45	7	0.152	0.101	1.213	0.303	1,165.3	27,727	0.0167
Curlew	1033.5	0.812	0.918	54	7	0.138	0.138	1.246	0.415	1,331.3	36,770	0.0166
Bluejay	1113	0.874	0.935	45	7	0.157	0.157	1.258	0.315	1,254.7	29,850	0.0155
Finch	1113	0.874	0.984	54	19	0.144	0.0862	1.293	0.431	1,430.8	39,123	0.0155
Bittern	1272	0.9998	1.068	45	7	0.168	0.112	1.345	0.336	1,434.1	34,100	0.0136
Bobolink	1431	1.124	1.201	45	7	0.178	0.119	1.427	0.357	1,612.9	38,351	0.0121
Lapwing	1590	1.249	1.335	45	7	0.188	0.125	1.502	0.376	1,792.3	42,110	0.0109
Falcon	1590	1.249	1.407	54	19	0.172	0.103	1.545	0.515	2,043.7	54,605	0.0108
*Bluebird	2156	1.693	1.831	84	19	0.160	0.0961	1.762	0.481	2,510.8	60,683	0.00799



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Code	Size	Section		Stranding		Diameter		Total Weight	Rated Strength	Maximum Resistance @ 20°C
		Al	Total	Al	Steel	Cable	Steel			
	AWG or MCM	mm ²		mm		mm		kg / km	kg	Ω / km
*Wren	8	8.37	9.81	6x1.33	1x1.33	3.99	1.33	33.8	340	3.4017
Turkey	6	13.30	15.48	6x1.68	1x1.68	5.03	1.68	53.7	540	2.1135
Swan	4	21.15	24.71	6x2.12	1x2.12	6.35	2.12	85.4	846	1.3278
Swanate	4	21.15	26.52	7x1.96	1x2.61	6.53	2.61	99.7	1,067	1.3133
Sparrow	2	33.62	39.23	6x2.67	1x2.67	8.03	2.67	136	1,289	0.8343
Sparate	2	33.62	42.13	7x2.47	1x3.30	8.26	3.30	159	1,650	0.8251
Robin	1	42.41	49.48	6x3.00	1x3.00	9.02	3.00	171	1,612	0.6621
Raven	1/0	53.51	62.39	6x3.37	1x3.37	10.11	3.37	216	1,987	0.5243
Quail	2/0	67.44	78.65	6x3.78	1x3.78	11.35	3.78	273	2,401	0.4160
Pigeon	3/0	85.02	99.23	6x4.25	1x4.25	12.75	4.25	344	3,006	0.3304
Penguin	4/0	107	125	6x4.77	1x4.77	14.30	4.77	433	3,787	0.2618
*Owl	266.8	135	153	6x5.36	7x1.79	16.09	5.37	507	4,330	0.2109
Waxwing	266.8	135	143	18x3.09	1x3.09	15.47	3.09	431	3,117	0.2119
Partridge	266.8	135	157	26x2.57	7x2.00	16.31	5.98	547	5,113	0.2100
Ostrich	300	152	177	26x2.73	7x2.12	17.27	6.36	614	5,755	0.1867
*Piper	300	152	188	30x2.54	7x2.54	17.78	7.62	697	7,000	0.1902
Merlin	336.4	171	180	18x3.47	1x3.47	17.37	3.47	544	3,931	0.1680
Linnet	336.4	171	198	26x2.89	7x2.25	18.31	6.74	689	6,730	0.1663
Oriole	336.4	171	210	30x2.69	7x2.69	18.82	8.07	784	7,865	0.1654



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		Al	Total	Al	Steel	Cable	Steel			
		mm ²		mm		mm				
AWG or MCM										
Chickadee	397.5	201	213	18x3.77	1x3.77	18.87	3.77	642	4,499	0.1421
Ibis	397.5	201	234	26x3.14	7x2.44	19.89	7.32	814	7,488	0.1411
Lark	397.5	201	248	30x2.92	7x2.92	20.47	8.77	927	9,202	0.1401
Pelican	477	242	255	18x4.14	1x4.14	20.68	4.14	771	5,347	0.1184
Flicker	477	242	273	24x3.58	7x2.39	21.49	7.16	914	7,790	0.1178
Hawk	477	242	281	26x3.44	7x2.67	21.79	8.03	977	8,880	0.1171
Hen	477	242	298	30x3.20	7x3.20	22.43	9.61	1,112	10,783	0.1165
*Heron	500	253	312	30x3.28	7x3.28	22.96	9.84	1,162	11,090	0.1141
Osprey	556.5	282	298	18x4.47	1x4.47	22.33	4.47	899	6,233	0.1014
Parakeet	556.5	282	319	24x3.87	7x2.58	23.22	7.73	1,067	8,999	0.1010
Dove	556.5	282	328	26x3.72	7x2.89	23.55	8.66	1,140	10,019	0.1007
Eagle	556.5	282	348	30x3.46	7x3.46	24.21	10.39	1,298	12,606	0.1001
Peacock	605	307	346	24x4.03	7x2.69	24.21	8.03	1,161	9,771	0.0928
Squab	605	307	357	26x3.87	7x3.01	24.54	9.04	1,240	11,018	0.0925
Teal	605	307	376	30x3.61	19x2.16	25.25	10.82	1,398	13,567	0.0919
*Duck	605	307	346	54x2.69	7x2.69	24.21	8.07	1,158	10,210	0.0944
Kingbird	636	322	340	18x4.78	1x4.78	23.88	4.78	1,028	7,128	0.0895
Rook	636	322	364	24x4.14	7x2.76	24.82	8.28	1,219	10,298	0.0883
Grosbeak	636	322	375	26x3.97	7x3.09	25.15	9.27	1,302	11,427	0.0879



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		Al	Total	Al	Steel	Cable	Steel			
	AWG or MCM	mm ²		mm		mm		kg / km	kg	Ω / km
Egret	636	322	396	30x3.70	19x2.22	25.88	11.10	1,471	14,302	0.0876
*Goose	636	322	364	54x2.76	7x2.76	24.84	8.28	1,218	10,730	0.0898
Flamingo	666.6	338	382	24x4.23	7x2.82	15.40	8.46	1,278	10,751	0.0843
*Gull	666.6	338	382	54x2.82	7x2.82	25.38	8.46	1,276	11,140	0.0587
Starling	715.5	363	422	26x4.21	7x3.28	26.70	9.83	1,465	12,865	0.0781
Redwing	715.5	363	445	30x3.92	19x2.35	27.46	11.76	1,653	15,649	0.0778
*Crow	715.5	363	410	54x2.92	7x2.92	26.28	8.76	1,370	11,950	0.0787
Cuckoo	795	403	455	24x4.62	7x3.08	27.74	9.25	1,524	12,649	0.0719
Drake	795	403	468	26x4.44	7x3.45	28.14	10.36	1,628	14,359	0.0705
Mallard	795	403	495	30x4.14	19x2.48	28.96	12.42	1,838	18,390	0.0699
Tern	795	403	431	45x3.38	7x2.25	27.00	6.76	1,333	10,027	0.0712
Condor	795	403	455	54x3.08	7x3.08	27.76	9.25	1,524	12,770	0.0705
*Crane	874.5	443	501	54x3.23	7x3.23	29.11	9.69	1,674	14,245	0.0643
Canary	900	456	515	54x3.28	7x3.28	29.51	9.83	1,725	14,483	0.0623
Rail	954	483	517	45x3.70	7x2.47	29.59	7.39	1,600	11,771	0.0594
Cardinal	954	483	546	54x3.38	7x3.38	30.38	10.13	1,829	16,323	0.0591
Ortolan	1033.5	524	560	45x3.85	7x2.57	30.81	7.70	1,734	12,577	0.0548
Curlew	1033.5	524	592	54x3.51	7x3.51	31.65	10.54	1,981	16,680	0.0545



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		Al	Total	Al	Steel	Cable	Steel			
	AWG or MCM	mm ²		mm		mm		kg / km	kg	Ω / km
Bluejay	1113	564	603	45x4.00	7x2.66	31.98	8.00	1,867	13,540	0.0509
Finch	1113	564	635	54x3.65	19x2.19	32.84	10.95	2,129	17,746	0.0509
Bunting	1192.5	604	646	45x4.14	7x2.76	33.07	8.28	2,000	14,530	0.0476
Grackle	1192.5	604	681	54x3.77	19x2.27	33.99	11.33	2,281	18,999	0.0472
Bittern	1272	645	689	45x4.27	7x2.85	34.16	8.53	2,134	15,470	0.0446
Pheasant	1272	645	726	54x3.90	19x2.34	35.10	11.71	2,433	19,788	0.0443
Dipper	1351.5	685	732	45x4.40	7x2.93	35.20	8.81	2,265	16,359	0.0420
Martin	1351.5	685	772	54x4.02	19x2.41	36.17	12.07	2,585	21,007	0.0417
Bobolink	1431	725	775	45x4.53	7x3.02	36.25	9.07	2,400	17,396	0.0397
Plover	1431	725	817	54x4.14	19x2.48	37.21	12.42	2,738	22,262	0.0394
Nuthatch	1510.5	765	818	45x4.65	7x3.10	37.24	9.30	2,533	18,152	0.0374
Parrot	1510.5	765	863	54x4.25	19x2.55	38.25	12.75	2,890	23,499	0.0374
Lapwing	1590	806	861	45x4.77	7x3.18	38.15	9.55	2,667	19,101	0.0358
Falcon	1590	806	908	54x4.36	19x2.62	39.24	13.08	3,041	24,769	0.0354
*Chukar	1780	902	975	84x3.70	19x2.22	40.69	11.10	3,086	23,291	0.0318
*Bluebird	2156	1092	1181	84x4.07	19x2.44	44.75	12.22	3,736	27,526	0.0262
*Kiwi	2167	1098	1146	72x4.41	7x2.94	44.12	8.81	3,427	22,819	0.0263



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Nominal Cross Sectional Area Al/stl.	Aluminum		Steel Wire		Overall Diameter	Maximum DC. Resistance of Cdr. @ 20 °C	Breaking Strength	Allowable Ampacities in Free Air	Cable Weight (approx)	Standard Packing
	Number & Diameter of Wires	Cross Sectional Area	Number & Diameter of Wires	Cross Sectional Area						
mm ²	No. / mm	mm ²	No. / mm	mm ²	mm	Ω / km	kgf	A	kg / km	m
16/2.5	6/1.80	15.3	1/1.80	2.55	5.4	1.8800	592	90	62	1,000/R
25/4	6/2.25	23.8	1/2.25	4.00	6.8	1.2030	916	125	97	1,000/R
35/6	6/2.70	34.3	1/2.70	5.70	8.1	0.8353	1,265	145	139	1,000/R
50/8	6/3.20	48.3	1/3.20	8.00	9.6	0.5947	1,716	170	195	1,000/R
50/30	12/2.33	51.2	7/2.33	29.80	11.7	0.5611	4,380	170	375	1,000/R
70/12	26/1.85	69.9	7/1.44	11.40	11.7	0.4131	2,676	290	282	1,000/R
95/15	26/2.15	94.4	7/1.67	15.30	13.6	0.3058	3,565	350	381	1,000/R
95/55	12/3.20	96.5	7/3.20	56.30	16.0	0.2993	7,965	350	708	1,000/R
120/20	26/2.44	121.6	7/1.90	19.80	15.5	0.2375	4,555	410	491	1,000/R
120/70	12/3.60	122.0	7/3.60	71.30	18.0	0.2365	10,034	410	896	1,000/R
125/30	30/2.33	127.9	7/2.33	29.80	16.1	0.2259	5,759	425	587	1,000/R
150/25	26/2.70	148.9	7/2.10	24.20	17.1	0.1939	5,513	470	601	1,000/R
170/40	30/2.70	171.8	7/2.70	40.10	18.9	0.1683	7,675	520	789	1,000/R

R = Packing in reel