Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil										
0.162	#6, Solid	474.0	–	–	–	–	–	–	#6, Solid	1,280
0.169	–	–	–	–	#6, 7W	528	–	–	–	–
0.174	–	–	–	–	–	–	–	–	91¹/⁴2D	1,743
0.179	–	–	–	–			–	–	8C	1,362
0.182	#5, Solid	597.7	–	–	#6, 6/1	1,170	–	–	#5, Solid	1,591
0.184	#6, 7W	560	–	–	–	–	–	–	#6, 7W	1,229
0.198	#6, 6/1	1,170	#6, 7W	555	–	–	–	–	–	–
0.199	–	–	–	–	–	–	–	–	8A	2,233
0.201	–	–	#6, 3W	915	–	–	–	–	–	–
0.202	–	–	–	–	–	–	–	–	#6, 3W	1,204
0.204	#4, Solid	–	–	–	–	–	–	–	#4, Solid	1,970
0.206	–	753.9	–	–	–	–	–	–	#5, 7W	1,542
0.213	–	–	–	–	#4, 7W	826	–	–	–	–
0.219	–	–	–	–	–	–	–	–	8D	3,256
0.223	#5, 6/1	1,460	–	–	–	–	–	–	7A	2,754
0.225	–	–	–	–	–	–	–	–	6C	2,143
0.226	–	–	–	–	–	–	–	–	#5, 3W	1,516
0.229	#3, Solid	929.9	–	–	#4, 6/1	1,830	–	–	#3, Solid	2,439
0.230	–	–	–	–	–	–	–	–	6A	2,585
0.232	#4, 7W	915	–	–	–	–	–	–	#4, 7W	1,938
0.236	–	–	–	–	#4, 7/1	2,288	–	–	–	–
0.245	–	–	–	–	–	–	#4, 6/1	1,783	–	–
0.246	–	–	–	–	–	–	–	–	7D	4,022
0.250	#4, 6/1	1,830	#4, 7W	875	–	–	–	–	–	–
0.257	#4, 7/1	2,290	–	–	–	–	–	–	–	–
0.258	#2, Solid	1,172.6	–	–	#3, 6/1	2,250	–	–	#2, Solid; 5A	3,003; 3,193
0.260	#3, 7W	1,100	–	–	–	–	–	–	#3, 7W	2,433
0.261	–	–	–	–	–	–	#4, 5/2	2,830	–	–
0.268	–	–	–	–	#2, 7W	1,266	–	–		
0.276	–	–	–	–	–	–			6D	4,942
0.281	#3, 6/1	2,250	–	–	–	–	#4, 4/3	4,305	–	–
0.286	–	–	–	–	–	–	–	–	#3, 3W	2,359
0.289	–	–	–	–	–	–	–	–	#1, Solid	3,688
0.290	–	–	–	–	#2, 6/1	2,790	–	–	4A	3,938
0.292	#2, 7W	1,340	–	–	–	–	–	–	#2, 7W	3,045
0.298	–	–	–	–	#2, 7/1	3,525	–	–	–	–
0.301	–	–	–	–	#1, 7W	1,537	–	–	–	–
0.307	–	–	–	–	–	–	#4, 3/4	6,325	–	–
0.308	–	–	–	–	–	–	–	–	2F	4,233
0.309	–	–	–	–	–	–	#2, 6/1	2,760	–	–
0.310	–	–	–	–	–	–	–	–	5D	6,035
0.316	#2, 6/1	2,790	32,7W	2,195	–	–	–	–	–	–
0.320	–	–	–	–	–	–	–	–	#2, 3W	2,913
0.325	#2, 7/1	3,525	–	–	–	–	–	–	1/0, Solid	4,517
0.326	–	–	–	–	#1, 6/1	3,480	–	–	5P	9,311
0.327	–	–	–	–	–	–	–	–	2G	5,626
0.328	#1, 7W	1,620	–	–	–	–	–	–	#1, 7W; 4N	3,804; 8,460

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
0.330	–	–	–	–	–	–	#2, 5/2	4,436	–	–
0.332	#1, 19W	1,685	–	–	–	–	–	–	#1, 19W	3,899
0.338	–	–	–	–	1/0, 7W	1,865	–	–	–	–
0.340	–	–	–	–	1/0, 19W	2,090	#4, 2/5	9,314	–	–
0.346	–	–	–	–	–	–	–	–	1F	5,266
0.348	–	–	–	–	–	–	–	–	4D	7,340
0.349	–	–	–	–	–	–	–	–	2J	7,322
0.355	#1, 6/1	3,480	–	–	–	–	#2, 4/3	6,785	–	–
0.360	–	–	–	–	–	–	–	–	#1, 3W	3,620
0.365	–	–	–	–	1/0, 6/1	4,280	–	–	2/0, Solid	5,519
0.366	–	–	–	–	–	–	–	–	2A; 4P	5,876; 11,420
0.367	80, 8/1	5,200	–	–	–	–	–	–	1G	6,956
0.368	1/0, 7W	1,970	–	–	–	–	–	–	1/0, 7W; 3N	4,750; 10,390
0.372	–	–	–	–	–	–	–	–	1/0, 19W	4,901
0.373	1/0, 19W	2,090	–	–	–	–	–	–	–	9,730
0.377	–	–	–	–	–	–	–	–	2K	–
0.381	–	–	–	–	2/0, 7W	2,350	–	–	–	–
0.382	–	–	–	–	2/0, 19W	2,586	–	–	–	–
0.386	–	–	–	–	–	–	#2, 3/4	9,793	–	–
0.388	–	–	–	–	–	–	–	–	1/0F	6,536
0.390	–	–	–	–	–	–	1/0, 6/1	4,246	1/0, 12W	4,841
0.392	–	–	–	–	–	–	–	–	1J	9,000
0.398	1/0, 6/1	4,280	1/0,7W	3,405	–	–	–	–	–	–
0.410	–	–	–	–	2/0, 6/1	5,345	–	–	–	–
0.411	–	–	–	–	–	–	–	–	3P	13,910
0.412	–	–	–	–	–	–	–	–	1/0G	8,563
0.413	–	–	–	–	–	–	–	–	2N	12,680
0.414	2/0, 7W	2,485	–	–	–	–	–	–	2/0, 7W	5,927
0.416	–	–	–	–	–	–	1/0, 5/2	6,712	–	–
0.419	2/0, 19W	2,586	–	–	–	–	–	–	2/0, 19W	6,152
0.423	–	–	–	–	–	–	–	–	1K	11,900
0.426	–	–	–	–	3/0, 7W	2,845	–	–	–	–
0.428	–	–	–	–	3/0, 19W	3,200	–	–	–	–
0.429	–	–	–	–	–	–	–	–	–	–
0.436	–	–	–	–	–	–	–	–	2/0F	8,094
0.438	–	–	–	–	–	–	#2, 2/5	14,060	2/0, 12W	6,048
0.440	–	–	–	–	–	–	–	–	1/0J	10,970
0.447	2/0, 6/1	5,345	2/0, 7W	4,230	–	–	1/0, 4/3	10,020	–	–
0.461	101.8, 12/7	9,860	–	–	3/0, 6/1	6,675	–	–	–	–
0.462	–	–	–	–	–	–	–	–	2P	16,870
0.463			–	–	–	–	–	–	2/0G	10,510
0.464	3/0, 7W	3,005	–	–	–	–	–	–	3/0, 7W; IN	7,366; 15,410
0.467	–	–	–	–	–	–	2/0, 5/2	8,040	–	–
0.470	3/0, 19W	3,200	–	–	–	–	–	–	3/0, 19W	7,698
0.475	–	–	–	–	–	–	–	–	1/0K	14,490
0.480	–	–	–	–	4/0, 7W	3,590	–	–	–	–
0.481	110.8, 12/7	10,730	–	–	4/0, 19W	3,890	–	–	–	–
0.487	–	–	–	–	–	–	1/0, 3/4	14,006	–	–

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
0.492	–	–	–	–	–	–	–	–	3/0, 12W	7,556
0.494	–	–	–	–	–	–	–	–	2/0J	13,430
0.502	3/0, 6/1	6,675	3/0, 7W	4,965	–	–	2/0, 4/3	12,000	–	–
0.517	–	–	–	–	4/0, 6/1	8,420	–	–	–	–
0.522	4/0, 7W	3,590	–	–	–	–	–	–	4/0, 7W	9,154
0.523	–	–	–	–	250, 19W	4,506	–	–	–	–
0.528	4/0, 19W	3,980	–	–	–	–	–	–	4/0, 19W	9,617
0.530	134.6, 12/7	12,920	–	–	–	–	–	–	–	–
0.534	–	–	–	–	–	–	–	–	2/0K	17,600
0.537	–	–	–	–	266.8, 7W	4,775	–	–	–	–
0.540	–	–	–	–	266.8, 19W	4,800	–	–	–	–
0.541	–	–	–	–	–	–	1/0, 2/5	20,030	–	–
0.550	–	–	–	–	–	–	–	–	4/0F	12,290
0.552	–	–	–	–	–	–	4/0, 6/1	7,685	4/0, 12W	9,483
0.559	–	–	–	–	266.8, 18/1	7,100	–	–	–	–
0.563	4/0, 6/1	8,420	4/0, 7W	6,265	–	–	–	–	–	–
0.571	–	–	–	–	–	–	–	–	4/0EK	15,370
0.573	–	–	–	–	300, 19W	5,301	–	–	–	–
0.574	250, 19W	–	–	–	–	–	–	–	250, 19W	11,360
0.575	250, 37W	4,860	–	–	–	–	4/0, 15/4	10,870	250, 37W	11,560
0.576	159, 12/7	15,200	–	–	–	–	–	–	–	–
0.583	–	–	–	–	–	–	–	–	4/0G	15,640
0.586	266.8, 7W	4,780	–	–	–	–	–	–	–	–
0.593	266.8, 19W	4,810	–	–	300, 18/1	7,990	–	–	–	–
0.594	266.8, 37W	–	–	–	–	–	–	–	–	–
0.600	–	–	–	–			–	–	250, 12W	11,130
0.603	–	–	–	–	336.4, 7W	5,885	–	–	–	–
0.607	176.9, 12/7	16,440	–	–	336.4, 19W	5,940	–	–	–	–
0.609	266.8, 18/1	7,100	–	–	–	–	–	–	–	–
0.613	–	–	–	–			–	–	4/0E	20,730
0.618	–	–	–	–	350, 19W	6,185	–	–	–	–
0.621	–	–	–	–	–	–	–	–	250EK	17,840
0.628	300, 19W	5,890	–	–	336.4, 18/1	8,950	–	–	300, 19W	13,510
0.630	300, 37W	5,830	–	–	–	–	–	–	300, 37W	13,870
0.631	190.8, 12/7	17,730	–	–	–	–	–	–	–	–
0.633	266.8, 6/7	9,645	–	–	–	–	–	–	–	–
0.642	266.8, 26/7	11,250	266.8, 19W	8,180	–	–	–	–	–	–
0.657	–	–	–	–	–	–	–	–	300, 12W	13,170
0.660	–	–	–	–	397.8, 19W	6,880	–	–	–	–
0.664	211.3, 12/7	19,640	–	–	–	–	–	–	–	–
0.666	336.4, 19W	5,945	–	–	–	–	–	–	250E	23,920
0.678	–	–	–	–	–	–	–	–	350, 19W	15,590
0.679	350, 19W	6,180	–	–	–	–	336.4, 18/1	8,650	–	–
0.680	300, 26/7	12,650	–	–	–	–	–	–	300EK	20,960
0.681	350, 37W	6,680	–	–	–	–	–	–	350, 37W	16,060
0.682	–	–	–	–	397.5, 18/1	10,040	–	–	–	–
0.684	336.4, 18/1	8,950	–	–	–	–	–	–	–	–
0.700	300, 30/7	15,430	–	–	–	–	–	–	–	–

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
0.710	–	–	–	–	–	–	–	–	350, 12W	15,140
0.714	203.2, 16/19	27,500	–	–	–	–	–	–	–	–
0.721	336.4, 26/7	14,050	–	–	–	–	–	–	–	–
0.722	–	–	–	–	477, 19W	8,090	–	–	–	–
0.724	397.5, 19W	6,885	–	–	–	–	–	–	–	–
0.726	–	–	–	–	–	–	–	–	400, 19W	17,560
0.728	400, 37W	7,350	–	–	–	–	–	–	400, 37W	18,320
0.729	–	–	–	–	–	–	–	–	300E	27,770
0.735	–	–	–	–	–	–	–	–	350EK	23,850
0.739	–	–	–	–	500, 19W	8,480	–	–	–	–
0.741	336.4, 30/7	17,040	–	–	–	–	–	–	–	–
0.742	–	–	–	–	477, 18/1	11,870	–	–	–	–
0.743	397.5, 18/1	10,400	–	–	–	–	–	–	–	–
0.770	–	–	–	–	–	–	–	–	450, 19W	19,750
0.772	450, 37W	8,110	–	–	–	–	–	–	450, 37W	20,450
0.780	–	–	–	–	556, 19W	9,440	–	–	–	–
0.782	–	–	397.5, 19W	11,840	–	–	–	–	–	–
0.783	397.5, 26/7	16,190	–	–	–	–	–	–	–	–
0.788	–	–	–	–	–	–	–	–	350E	32,420
0.793	477, 19W	8,090	–	–	–	–	–	–	–	–
0.795	477, 37W	8,600	–	–	–	–	–	–	–	–
0.801	–	–	–	–	556.5, 18/1	13,850	–	–	–	–
0.806	397.5, 30/7	19.980	–	–	–	–	–	–	–	–
0.811	500, 19W	9,425	–	–	–	–	–	–	500, 19W	21,950
0.813	500, 37W	9,010	–	–	–	–	–	–	500, 37W	22,510
0.814	477, 18/1	12,300	–	–	–	–	–	–	–	–
0.834	–	–	–	–	636, 19W	10,790	–	–	–	–
0.846	477, 24/7	17,200	–	–	–	–	–	–	–	–
0.853	–	–	–	–	–	–	–	–	550, 37W	24,760
0.855	500, 61W	10,490	–	–	–	–	–	–	550, 61W	25,230
0.856	556, 19W	9,440	–	–	–	–	–	–	–	–
0.858	477, 26/7 556.5, 37/W	19,430 9,835	477, 19W	13,450	–	–	–	–	–	–
0.862	–	–	–	–	636, 18/1	15,830	–	–	–	–
0.879	556.5, 18/1	14,300	–	–	–	–	–	–	–	–
0.883	477, 30/7	23,300	–	–	–	–	–	–	–	–
0.891	–	–	–	–	–	–	–	–	600, 37W	27,020
0.893	600, 61W	11,450	–	–	–	–	–	–	600, 61W	27,530
0.904	500, 30/7	24,450	–	–	–	–	–	–	–	–
0.914	556.5, 24/7	9,925	–	–	–	–	–	–	–	–
0.918	636,37W	11,240	–	–	–	–	–	–	–	–
0.927	556.5, 26/7	19,850	556.5, 19W	15,680	–	–	–	–	–	–
0.928	–	–	–	–	–	–	–	–	650, 37W	29,130
0.929	650, 61W	11,940	–	–	–	–	–	–	650, 61W	29,770
0.932	–	–	–	–	795, 19W	16,540	–	–	–	–
0.940	636, 18/1	16,400	–	–	–	–	–	–	–	–

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
0.953	556.5, 30/7	27,200	–	–	–	–	–	–	–	–
0.953	605, 24/7	21,500	–	–	–	–	–	–	–	–
0.953	605, 54/7	22,500	–	–	–	–	–	–	700, 37W	31,170
0.962	–	–	–	–	–	–	–	–	700, 61W	31,820
0.964	700, 61W	12,860	–	–	–	–	–	–	–	–
0.966	605, 26/7	24,100	–	–	–	–	–	–	–	–
0.974	715.5, 37W	12,640	–	–	–	–	–	–	–	–
0.975	715.5, 61W	13,150	–	–	–	–	–	–	–	–
0.977	636, 24/7	22,600	–	–	–	–	–	–	–	–
0.977	636, 54/7	23,600	–	–	–	–	–	–	–	–
0.981	–	–	–	–	874.5, 37W	14,830	–	–	–	–
0.990	636, 26/7	25,000	636, 37W	19,110	–	–	–	–	–	–
0.994	605, 30/19	30,000	–	–	874.5, 36/1	17,900	–	–	–	–
0.997	750, 37W	14,430	–	–	–	–	–	–	750, 37W	33,400
0.998	750, 61W	13,510	–	–	–	–	–	–	750, 61W	34,090
1.000	666.6, 24/7	23,700	–	–	–	–	–	–	–	–
1.000	666.6, 54/7	24,500	–	–	–	–	–	–	–	–
1.019	636, 30/19	30,500	–	–	–	–	–	–	–	–
1.024	–	–	–	–	954, 37W	16,180	–	–	–	–
1.026	795, 37W	13,770	–	–	–	–	–	–	–	–
1.028	795, 61W	14,330	–	–	–	–	–	–	–	–
1.029	–	–	–	–	–	–	–	–	800, 37W	35,120
1.031	800, 61W	14,410	–	–	–	–	–	–	800, 61W	36,360
1.039	–	–	–	–	954, 36/1	19,520	–	–	–	–
1.040	795, 36/1	10,000	–	–	–	–	–	–	–	–
1.051	715.5, 26/7	28,100	–	–	–	–	–	–	–	–
1.061	–	–	–	–	–	–	–	–	850, 37W	37,310
1.062	–	–	–	–	–	–	–	–	850, 61W	38,270
1.063	795, 45/7	22,900	–	–	–	–	–	–	–	–
1.077	874.5, 37W	14,840	–	–	–	–	–	–	–	–
1.078	874.5, 61W	15,760	–	–	–	–	–	–	–	–
1.081	715.5, 30/19	34,600	–	–	–	–	–	–	–	–
1.092	–	–	–	–	–	–	–	–	900, 37W	39,510
1.093	795, 54/7	28,500	–	–	–	–	–	–	–	–
1.094	900, 61W	15,900	–	–	–	–	–	–	900, 61W	40,520
1.108	795, 26/7	31,200	795, 37W	23,590	–	–	–	–	–	–
1.124	954, 37W	16,180	–	–	–	–	–	–	–	–
1.126	954, 61W	16,860	–	–	–	–	–	–	–	–
1.140	795, 30/19	38,400	–	–	–	–	–	–	–	–
1.146	874.5, 54/7	31,400	–	–	–	–	–	–	–	–
1.151	1,000, 37W	–	–	–	–	–	–	–	1,000, 37W	43,830
1.152	1,000, 61W	17,670	–	–	–	–	–	–	1,000, 61W	45,030
1.162	900, 54/7	32,300	–	–	–	–	–	–	–	–
1.165	954, 45/7	26,900	–	–	–	–	–	–	–	–
1.170	1,033.5, 37W	17,530	–	–	–	–	–	–	–	–
1.172	1,033.5, 61W	18,260	–	–	–	–	–	–	–	–
1.196	954, 54/7	34,200	–	–	–	–	–	–	–	–
1.213	1,033.5, 45/7	28,900	–	–	–	–	–	–	–	–

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
1.216	1,113, 61W	19,670	–	–	–	–	–	–	–	–
1.246	1,033.5, 54/7	37,100	–	–	–	–	–	–	–	–
1.258	1,192.5, 61W	21,070	–	–	–	–	–	–	–	–
1.259	1,113, 45/7	30,900	–	–	–	–	–	–	–	–
1.288	–	–	–	–	1,468, 36/1	30,000	–	–	–	–
1.293	1,113, 54/19	40,200	–	–	–	–	–	–	–	–
1.300	1,272, 61W	22,030	–	–	–	–	–	–	–	–
1.302	1,192.5, 45/7	33,200	–	–	–	–	–	–	–	–
1.333	1,192.5, 54/19	43,100	–	–	–	–	–	–	–	–
1.340	1,351.5, 61W	23,400	–	–	–	–	–	–	–	–
1.345	1,272, 45/7	35,400	–	–	–	–	–	–	–	–
1.379	1,431, 61W	23,400	–	–	–	–	–	–	–	–
1.382	1,272, 54/19	44,800	–	–	–	–	–	–	–	–
1.417	1,510.5, 61W	25,630	–	–	–	–	–	–	–	–
1.424	1,351.5, 54/19	47,600	–	–	–	–	–	–	–	–
1.427	1,431, 45/7	39,800	–	–	–	–	–	–	–	–
1.443	1,431, 54/19 1,590, 61W	50,400 26,970	–	–	–	–	–	–	–	–
1.454	1,590, 91W	28,100	–	–	–	–	–	–	–	–
1.465	1,431, 54/19	50,400	–	–	–	–	–	–	–	–
1.504	1,590, 45/7	43,800	–	–	–	–	–	–	–	–
1.506	1,510.5, 54/19	53,300	–	–	–	–	–	–	–	–
1.545	1,590, 54/19	56,000	–	–	–	–	–	–	–	–
1.602	1,780, 84/19	53,600	–	–	–	–	–	–	–	–
1.630	2,000, 91W	34,640	–	–	–	–	–	–	–	–
1.823	2,500, 91W	42,410	–	–	–	–	–	–	–	–
1.996	3,000, 127W	50,890	–	–	–	–	–	–	–	–
2.158	3,500, 127W	59,380	–	–	–	–	–	–	–	–

Conductor reference

Circular mils Typical	AWG size	Metric wire size mm²	Equivalent circular mils	Stranding/wire diameter per standard in.	Stranding/wire diameter per standard mm	Approximate overall diameter in.	Approximate overall diameter mm
AWG/kcmil vs. metric wire sizes — option 1							
–	–	0.50	987	1/0.032	1/0.813	0.032	0.81
1,020	20	–	–	7/0.0121	7/0.307	0.036	0.91
–	–	0.75	1,480	1/0.039	1/0.991	0.039	0.99
1,620	18	–	–	1/0.0403	1/1.02	0.040	1.02
1,620	18	–	–	7/0.0152	7/0.386	0.046	1.16
–	–	1.0	1,974	1/0.045	1/1.14	0.045	1.14
–	–	1.0	1,974	7/0.017	7/0.432	0.051	1.30
2,580	16	–	–	1/0.0508	1/1.29	0.051	1.29
2,580	16	–	–	7/0.0192	7/0.488	0.058	.46
–	–	1.5	2,960	1/0.055	1/1.40	0.055	1.40
–	–	1.5	2,960	7/0.021	7/5.33	0.063	1.60
4,110	14	–	–	1/0.0641	1/1.63	0.064	1.63
4,110	14	–	–	7/0.0242	7/0.615	0.073	1.84
–	–	2.5	4,934	1/0.071	1/1.80	0.071	1.80
–	–	2.5	4,934	7/0.027	7/0.686	0.081	2.03
6,530	12	–	–	1/0.0808	1/2.05	0.081	2.05
6,530	12	–	–	7/0.0305	7/0.775	0.092	2.32
–	–	4	7,894	1/0.089	1/2.26	0.089	2.26
–	–	4	7,894	7/0.34	7/0.864	0.102	2.59
10,380	10	–	–	1/0.1019	1/2.59	0.102	2.59
10,380	10	–	–	7/0.0385	7/0.978	0.116	2.93
–	–	6	11,840	1/0.109	1/2.77	0.109	2.77
–		6	11,840	7/0.042	7/0.107	0.126	3.21
13,090	9	–	–	1/0.1144	1/2.91	0.1144	2.91
13,090	9	–	–	7/0.0432	7/1.10	0.130	3.30
16,510	8	–	–	1/0.1285	1/3.26	0.128	3.26
16,510	8	–	–	7/0.0486	7/1.23	0.149	3.0
–	–	10	19,740	1/0.141	1/3.58	0.141	3.58
–	–	10	19,740	7/0.54	7/1.37	0.162	4.12
20,820	7	–	–	1/0.1443	1/3.67	0.144	3.67
20,820	7	–	–	7/0.545	7/1.38	0.164	4.15
26,240	6	–	–	1/0.162	1/4.11	0.162	4.11
26,240	6	–	–	7/0.0612	7/1.55	0.184	4.66
–	–	16	31,580	7/0.068	7/1.73	0.204	5.18
33,090	5	–	–	7/0.0688	7/1.75	0.206	5.24
41,740	4	–	–	7/0.0772	7/1.96	0.232	5.88
–	–	25	49,340	7/0.085	7/2.16	0.255	6.48
–	–	25	49,340	19/0.052	19/1.32	0.260	6.60
52,620	3	–	–	7/0.0867	7/2.20	0.260	6.61
66,360	2	–	–	7/0.0974	7/2.47	0.292	7.42
–	–	35	69,070	7/0.100	7/2.54	0.300	7.62
–	–	35	69,070	19/0.061	19/1.55	0.305	7.75

Conductor reference

Circular mils Typical	AWG size	Metric wire size mm²	Equivalent circular mils	Stranding/wire diameter per standard in.	Stranding/wire diameter per standard mm	Approximate overall diameter in.	Approximate overall diameter mm
AWG/kcmil vs. metric wire sizes – option 1 (cont'd)							
83,690	1	–	–	19/0.0664	19/1.69	0.332	8.43
–	–	50	98,680	19/0.073	19/1.85	0.365	9.27
105,600	1/0	–	–	19/0.0745	19/1.89	0.373	9.46
133,100	2/0	–	–	19/0.0837	19/2.13	0.419	10.6
–	–	70	138,100	19/0.086	19/2.18	0.430	10.9
167,800	3/0	–	–	19/0.094	19/2.39	0.470	11.9
167,800	3/0	–	–	37/0.0673	37/1.71	0.471	12.0
–	–	95	187,500	19/0.101	19/2.57	0.505	12.8
–	–	95	187,500	37/0.072	37/1.83	0.504	12.8
211,600	4/0	–	–	19/0.1055	19/2.68	0.528	13.4
–	–	120	237.8 kcmil	37/0.081	37/2.06	0.567	14.4
250 kcmil	–	–	–	37/0.0822	37/2.09	0.575	14.6
300 kcmil	–	150	–	37/0.090	37/2.29	0.630	16.0
350 kcmil	–	–	–	37/0.0973	37/2.47	0.681	17.3
–	–	185	365.1 kcmil	37/0.100	37/2.54	0.700	17.8
400 kcmil	–	–	–	37/0.104	37/2.64	0.728	28.5
–	–	240	473.6 kcmil	37/0.114	37/2.90	0.798	20.3
–	–	240	473.6 kcmil	61/0.089	61/2.26	0.801	20.3
500 kcmil	–	–	–	37/0.1162	37/2.95	0.813	20.7
500 kcmil	–	–	–	61/0.0905	61/2.30	0.814	20.7
–	–	300	592.1 kcmil	61/0.99	61/2.51	0.891	22.6
600 kcmil	–	–	–	61/0.0992	61/2.52	0.893	22.7
700 kcmil	–	–	–	61/0.1071	61/2.72	0.964	24.5
750 kcmil	–	–	–	61/0.1109	61/2.82	0.998	25.4
750 kcmil	–	–	–	91/0.0908	91/2.31	0.999	25.4
–	–	400	789.4 kcmil	61/0.114	61/2.90	1.026	26.1
800 kcmil	–	–	–	61/0.1145	61/2.91	1.031	26.2
800 kcmil	–	–	–	91/0.0938	91/2.38	1.032	26.2
1,000 kcmil	–	500	986.8 kcmil	61/0.1280	61/3.25	1.152	29.3
1,000 kcmil	–	–	–	91/0.1048	91/2.66	1.153	29.3
–	–	625	1,233.7 kcmil	91/0.117	91/2.97	1.287	32.7
1,250 kcmil	–	–	–	91/0.1172	91/2.98	1.289	32.7
1,250 kcmil	–	–	–	127/0.0992	127/2.52	1.290	32.8
1,500 kcmil	–	–	–	91/0.1284	91/3.26	1.412	35.9
1,500 kcmil	–	–	–	127/0.1087	127/2.76	1.413	35.9
–	–	800	1,578.8 kcmil	91/0.132	91/3.35	1.452	36.9
–	–	1,000	1,973.5 kcmil	91/0.147	91/3.73	1.617	41.1
2,000 kcmil	–	–	–	127/0.1255	127/3.19	1.632	41.5
2,000 kcmil	–	–	–	169/0.1088	169/2.76	1.632	41.5

Conductor reference

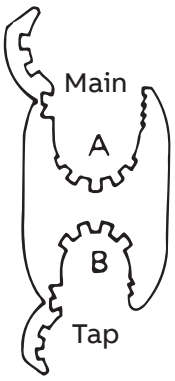
Approximate overall diameter						Stranding/wire diameter per strand	
in.	mm	Circular mils	AWG size	Metric wire size mm²	Equivalent circular mils	in.	mm
AWG/kcmil vs. metric wire sizes – option 2							
0.032	0.81	–	–	0.50	987	1/0.032	1/0.813
0.036	0.91	1,020	20	–	–	7/0.0121	7/0.307
0.039	0.099	1,020	–	0.75	1,480	1/0.039	1/0.991
0.040	1.02	1,620	18	–	–	1/0.0403	1/1.02
0.046	1.16	1,620	18	–	–	7/0.0152	7/0.386
0.045	1.14	–	–	1.0	1,974	1/0.045	1/1.14
0.051	1.30	–	–	1.0	1,974	7/0.017	7/0.432
0.051	1.29	2,580	16	–	–	1/0.0508	1/1.29
0.058	1.46	2,580	16	–	–	7/0.0192	7/0.488
0.055	0.40	–	–	1.5	2,960	1/0.055	1/1.40
0.063	1.60	–		1.5	2,960	7/0.021	7/5.33
0.064	1.63	4,110	14	–	–	1/0.0641	1/1.63
0.073	1.84	4,110	14	–	–	7/0.0242	7/0.615
0.071	1.80	–	–	2.5	4,934	1/0.071	1/1.80
0.081	2.06	–		2.5	4,934	7/0.027	7/0.686
0.081	2.05	6,530	12	–	–	1/0.0808	1/2.05
0.092	2.32	6,530	12	–	–	7/0.0305	7/0.775
0.089	2.26	–	–	4	7,894	1/0.089	1/2.26
0.102	2.59	–	–	4	7,894	7/0.034	7/0.864
0.102	2.59	10,380	10	–	–	1/0.1019	1/2.59
0.116	2.93	10,380	10	–	–	7/0.0385	7/0.978
0.109	2.77	–	–	6	11,840	1/0.109	1/2.77
0.126	3.21	–		6	11,840	7/0.042	7/0.107
0.1144	2.91	13,090	9	–	–	1/0.1144	1/2.91
0.130	3.30	13,090	9	–	–	7/0.0432	7/1.10
0.128	3.26	16,510	8	–	–	1/0.1285	1/3.26
0.146	3.70	16,510	8	–	–	7/0.0486	7/1.23
0.141	3.58	–	–	10	19740	1/0.141	1/3.58
0.162	4.12	–		10	19740	7/0.054	7/1.37
0.144	3.67	20,820	7	–	–	1/0.1443	1/3.67
0.164	4.15	20,820	7	–	–	7/0.0545	7/1.38
0.162	4.11	26,240	6	–	–	1/0.162	1/4.11
0.184	4.66	26,240	6	–	–	7/0.0612	7/1.55
0.204	5.18	–	–	16	31,580	7/0.068	7/1.73
0.206	5.24	33,090	5	–	–	7/0.0688	7/1.75
0.232	5.88	41,740	4	–	–	7/0.0772	7/1.96
0.255	6.48	–	–	25	49,340	7/0.085	7/2.16
0.260	6.60	–		25	49,340	19/0.052	19/1.32
0.260	6.61	52,620	3	–	–	7/0.0867	7/2.20
0.292	7.42	66,360	2	–	–	7/0.0974	7/2.47
0.300	7.62	–	–	35	69,070	7/0.100	7/2.54
0.305	7.75	–	–	35	69,070	19/0.061	19/1.55

Conductor reference

Approximate overall diameter						Stranding/wire diameter per strand	
in.	mm	Circular mils	AWG size	Metric wire size mm²	Equivalent circular mils	in.	mm
AWG/kcmil vs. metric wire sizes – option 2 (cont'd)							
0.332	8.43	83,690	1	–	–	19/0.0664	19/1.69
0.365	9.27	–	–	50	98,680	19/0.073	19/1.85
0.373	9.46	105,600	1/0	–	–	19/0.0745	19/1.89
0.419	10.6	133,100	2/0	–	–	19/0.0837	19/2.13
0.430	10.9	–		70	138,100	19/0.086	19/2.18
0.470	11.9	167,800	3/0	–	–	19/0.094	19/2.39
0.471	12.0	167,800	3/0	–	–	37/0.0673	37/1.71
0.505	12.8	–	–	95	187,500	19/0.101	19/2.57
0.504	12.8	–		95	187,500	37/0.072	37/1.83
0.528	13.4	211,600	4/0	–	–	19/0.1055	19/2.68
0.567	14.4	–	–	120	237.8 kcmil	37/0.081	37/2.06
0.575	14.6	250 kcmil	–	–	–	37/0.0822	37/2.09
0.630	16.0	300 kcmil	–	150	–	37/0.090	37/2.29
0.681	17.3	350 kcmil	–	–	–	37/0.0973	37/2.47
0.700	17.8	–	–	185	365.1 kcmil	37/0.100	37/2.54
0.728	18.5	400 kcmil	–	–	–	37/0.104	37/2.64
0.798	20.3	–	–	240	473.6 kcmil	37/0.114	37/2.90
0.801	20.3	–	–	240	473.6 kcmil	61/0.089	61/2.26
0.813	20.7	500 kcmil	–	–	–	37/0.1162	37/2.95
0.814	20.7	500 kcmil	–	–	–	61/0.0905	61/2.30
0.891	22.6	–	–	300	592.1 kcmil	61/0.099	61/2.51
0.893	22.7	600 kcmil	–	–	–	61/0.0992	61/2.52
0.964	24.5	700 kcmil	–	–	–	61/0.1071	61/272
0.998	25.4	750 kcmil	–	–	–	61/0.1109	61/2.82
0.999	25.4	750 kcmil	–	–	–	91/0.0908	91/2.31
1.026	26.1	–	–	400	789.4 kcmil	61/0.114	61/2.90
0.031	26.2	800 kcmil	–	–	–	61/0.1145	61/2.91
0.032	26.2	800 kcmil	–	–	–	91/0.0938	91/2.38
1.152	29.3	1,000 kcmil	–	500	986.8 kcmil	61/0.1280	61/3.25
0.153	29.3	1,000 kcmil	–	–	–	91/0.1048	91/2.66
1.287	32.7	–	–	625	1,233.7 kcmil	91/0.117	91/2.97
1.289	32.7	1,250 kcmil	–	–	–	91/0.1172	91/2.98
1.290	32.8	1,250 kcmil	–	–	–	127/0.0992	127/2.52
1.412	35.9	1,500 kcmil	–	–	–	91/0.1284	91/3.26
1.413	35.9	1,500 kcmil	–	–	–	127/0.1087	127/2.76
1.452	36.9	–	–	800	1,578.8 kcmil	91/0.132	91/3.35
1.617	41.1	–	–	1,000	1,973.5 kcmil	91/0.147	91/3.73
1.632	41.5	2,000 kcmil	–	–	–	127/0.1255	127/3.19
1.632	41.5	2,000 kcmil	–	–	–	169/0.1088	169/2.76

Compression H-tap connectors

Type WR – Quick reference chart



“O” and “D” die seven connector program

- For combinations of aluminum-aluminum and aluminum-copper conductors
- Pass the requirements of ANSI C119.4
- Standard compression tools and dies install all sizes
- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor’s shape
- Made of 1350 aluminum alloy
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area

A
Primary (Main)

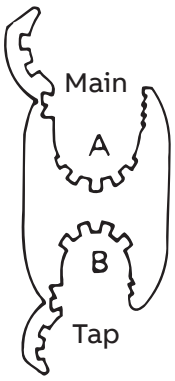
B
Secondary (Tap)

	6 Sol.	6 Str.	6 ACSR	4 Sol.	3 Sol.	4 Str.	4 ACSR	2 Sol.	3 Str.	3 ACSR	1 Sol.	2 Str.	2 ACSR	1/0 Sol.	1 Str.	1 ACSR	2/0 Sol.	1/0 Str.	1/0 ACSR	3/0 Sol.	2/0 Str.	2/0 ACSR	4/0 Sol.	3/0 Str.	3/0 ACSR	4/0 Str.	4/0 ACSR
6 Sol.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
6 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
6 ACSR	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
4 Sol.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
3 Sol.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
4 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
4 ACSR	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
2 Sol.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
3 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
3 ACSR	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
1 Sol.										WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
2 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
2 ACSR	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
1/0 Sol.										WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
1 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR289	WR289	WR289	WR379	WR379	WR379
1 ACSR																	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399
2/0 Sol.																	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399
1/0 Str.																	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399
1/0 ACSR																	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399
3/0 Sol.																	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399
2/0 Str.																	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399
2/0 ACSR																	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399
3/0 Str.																	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR279	WR419	WR419	WR419
3/0 ACSR																									WR419	WR419	WR419
4/0 Str.																									WR419	WR419	WR419
4/0 ACSR																									WR419	WR419	WR419

WR159
WR189
WR289
WR279
WR379
WR399
WR419

Compression H-tap connectors

Type WR compact – Quick reference chart



“O” and “D” die seven connector program

- For combinations of aluminum-aluminum and aluminum-copper conductors
- Pass the requirements of ANSI C119.4
- Standard compression tools and dies install all sizes
- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor’s shape
- Made of 1350 aluminum alloy
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area

A
Primary (Main)

B
Secondary (Tap)

	6 Str.	6 ACSR	4 Str.	4 ACSR	3 Str.	3 ACSR	2 Str.	2 ACSR	1 Str.	1 ACSR	1/0 Str.	1/0 ACSR	2/0 Str.	2/0 ACSR	3/0 Str.	3/0 ACSR	4/0 Str.	4/0 ACSR	250 Str.	250 ACSR	266 Str.	266 18/1 ACSR
6 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
6 ACSR	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
4 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
4 ACSR	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
3 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
3 ACSR	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
2 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
2 ACSR	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
1 Str.	WR159	WR159	WR159	WR159	WR159	WR159	WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
1 ACSR							WR189	WR189	WR189	WR189	WR189	WR189	WR189	WR289	WR289	WR289	WR379	WR379	WR379	WR379	WR379	WR379
1/0 Str.											WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399	WR399	WR399	WR399	WR399
1/0 ACSR											WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399	WR399	WR399	WR399	WR399
2/0 Str.											WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399	WR399	WR399	WR399	WR399
2/0 ACSR											WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399	WR399	WR399	WR399	WR399
3/0 Str.											WR279	WR279	WR279	WR279	WR279	WR399	WR399	WR399	WR399	WR399	WR399	WR399
3/0 ACSR											WR279	WR279	WR279	WR279	WR279	WR419	WR419	WR419	WR419	WR419	WR419	WR419
4/0 Str.																WR419	WR419	WR419	WR419	WR419	WR419	WR419
4/0 ACSR																WR419	WR419	WR419	WR419	WR419	WR419	WR419
250 Str.																WR419	WR419	WR419	WR419	WR419	WR419	WR419
266 Str.																WR419	WR419	WR419	WR419	WR419	WR419	WR419
266 18/1 ACSR																WR419	WR419	WR419	WR419	WR419	WR419	WR419

WR159
WR189
WR289
WR279
WR379
WR399
WR419