

3-2 Aluminum-clad Steel Wire/Aluminum Conductors

Conductor	Diameter of conductor in.	Design of conductor		Rated breaking load lbs.	Weight		Cross section sq. in.
		Aluminum wires no.	AS wire dia.		lbs. per 1,000 ft.	lbs. per mile	
No. 4 Avg Aluminum Equivalent 41,740 C.M. (No. 6 Avg Copper Equivalent)							
No. 4 - 6/1	.245	6 - .0817	1 - .0817	1,783	52.4	276.7	.03671
No. 4 - 5/2	.261	5 - .0871	2 - .0871	2,830	69.7	368.0	.04172
No. 4 - 4/3	.281	4 - .0937	3 - .0937	4,305	92.4	487.9	.04831
No. 4 - 3/4	.307	3 - .1022	4 - .1022	6,325	123.7	653.1	.05737
No. 4 - 2/5	.340	2 - .1133	5 - .1133	9,314	169.4	894.4	.07061
No. 3 Avg Aluminum Equivalent 52,620 C.M. (No. 5 Avg Copper Equivalent)							
No. 3 - 6/1	.275	6 - .0918	1 - .0918	2,228	66.1	349.0	.04629
No. 3 - 5/2	.293	5 - .0978	2 - .0978	3,551	87.8	463.7	.05261
No. 3 - 4/3	.316	4 - .1053	3 - .1053	5,397	116.5	615.1	.06092
No. 3 - 3/4	.344	3 - .1147	4 - .1147	7,966	155.9	823.2	.07234
No. 3 - 2/5	.382	2 - .1273	5 - .1273	11,730	213.5	1,127	.08903
No. 2 Avg Aluminum Equivalent 66,360 C.M. (No. 4 Avg Copper Equivalent)							
No. 2 - 6/1	.309	6 - .1030	1 - .1030	2,760	83.3	439.8	.05837
No. 2 - 5/2	.330	5 - .1099	2 - .1099	4,436	110.8	585.0	.06634
No. 2 - 4/3	.355	4 - .1182	3 - .1182	6,785	146.9	775.6	.07682
No. 2 - 3/4	.386	3 - .1288	4 - .1288	9,793	196.6	1,038	.09122
No. 2 - 2/5	.429	2 - .1429	5 - .1429	14,060	269.3	1,422	.1123
No. 1 Avg Aluminum Equivalent 83,690 C.M. (No. 3 Avg Copper Equivalent)							
No. 1 - 6/1	.347	6 - .1157	1 - .1157	3,450	105.1	554.9	.07362
No. 1 - 5/2	.370	5 - .1234	2 - .1234	5,539	139.7	737.6	.08366
No. 1 - 4/3	.398	4 - .1327	3 - .1327	8,344	185.3	978.4	.09687
No. 1 - 3/4	.434	3 - .1446	4 - .1446	11,740	247.9	1,309	.1150
No. 1 - 2/5	.482	2 - .1605	5 - .1605	16,800	339.6	1,793	.1416
No. 1/0 Avg Aluminum Equivalent 105,600 C.M. (No. 2 Avg Copper Equivalent)							
No. 1/0 - 6/1	.390	6 - .1300	1 - .1300	4,246	132.6	700.1	.09289
No. 1/0 - 5/2	.416	5 - .1385	2 - .1385	6,712	176.1	929.8	.1055
No. 1/0 - 4/3	.447	4 - .1490	3 - .1490	10,020	233.5	1,233	.1221
No. 1/0 - 3/4	.487	3 - .1624	4 - .1624	14,000	312.6	1,651	.1450
No. 1/0 - 2/5	.541	2 - .1802	5 - .1802	20,030	428.0	2,260	.1785
No. 2/0 Avg Aluminum Equivalent 133,100 C.M. (No. 1 Avg Copper Equivalent)							
No. 2/0 - 6/1	.438	6 - .1459	1 - .1459	5,135	167.1	882.3	.1171
No. 2/0 - 5/2	.467	5 - .1556	2 - .1556	8,040	222.1	1,173	.1330
No. 2/0 - 4/3	.502	4 - .1674	3 - .1674	12,000	294.6	1,555	.1541
No. 2/0 - 3/4	.547	3 - .1824	4 - .1824	16,750	394.3	2,082	.1829
No. 3/0 Avg Aluminum Equivalent 167,800 C.M. (No. 1/0 Avg Copper Equivalent)							
No. 3/0 - 6/1	.492	6 - .1639	1 - .1639	6,305	210.7	1,112	.1476
No. 3/0 - 5/2	.524	5 - .1747	2 - .1747	9,705	280.6	1,482	.1677
No. 3/0 - 4/3	.564	4 - .1880	3 - .1880	14,380	371.4	1,961	.1942
No. 4/0 Avg Aluminum Equivalent 211,600 C.M. (No. 2/0 Avg Copper Equivalent)							
No. 4/0 - 6.1	.552	6 - .1840	1 - .1840	7,685	265.7	1,403	.1861
No. 4/0 - 15/4	.575	15 - .1150	4 - .1150	10,870	305.4	1,613	.1974