



NOMINAL DIMENSIONS AND AREAS OF COMPACT COPPER AND ALUMINUM BUILDING WIRE

Size AWG or kcmil	Bare Conductor		Types THW and THHW		Type THHN		Type XHHW	
	Number of Strands	Diameter Inches	Approx. Diameter Inches	Approx. Area Sq. Inches	Approx. Diameter Inches	Approx. Area Sq. Inches	Approx. Diameter Inches	Approx. Area Sq. Inches
8	7	0.134	0.255	0.0510	—	—	0.224	0.0394
6	7	0.169	0.290	0.0660	0.240	0.0452	0.260	0.0530
4	7	0.213	0.335	0.0881	0.305	0.0730	0.305	0.0730
2	7	0.268	0.390	0.1194	0.360	0.1017	0.360	0.1017
1	19	0.299	0.465	0.1698	0.415	0.1352	0.415	0.1352
1/0	19	0.336	0.500	0.1963	0.450	0.1590	0.450	0.1590
2/0	19	0.376	0.545	0.2332	0.495	0.1924	0.490	0.1885
3/0	19	0.423	0.590	0.2733	0.540	0.2290	0.540	0.2290
4/0	19	0.475	0.645	0.3267	0.595	0.2780	0.590	0.2733
250	37	0.520	0.725	0.4128	0.670	0.3525	0.660	0.3421
300	37	0.570	0.775	0.4717	0.720	0.4071	0.715	0.4015
350	37	0.616	0.820	0.5281	0.770	0.4656	0.760	0.4536
400	37	0.659	0.865	0.5876	0.815	0.5216	0.800	0.5026
500	37	0.736	0.940	0.6939	0.885	0.6151	0.880	0.6082

Dimensions come from industry sources.

Adapted from NEC® Chapter 9, Table 5A and Table 8.