

CONSTRUCTION CHARACTERISTICS TABLE - LINE WIRE

Code Word	Size (Stranding)	Nominal Conductor Diameter (mm)	Nominal Covering Thickness (mm)	Nominal Overall Diameter (mm)	Approx. Linear Mass (kg/km)	Rated Tensile Strength (kN)	Ampacity (A)	DC Resistance at 20°C (Ω/km)
Line Wire - Round AASC								
-	2 (7)	7.9	1.1	10.0	143	11.8	165	0.854
-	1/0 (7)	10.0	1.5	13.0	230	18.8	220	0.536
-	2/0 (7)	11.3	1.5	14.3	283	23.7	255	0.424
-	3/0 (7)	12.7	1.5	15.7	350	29.9	295	0.338
-	4/0 (7)	14.2	1.5	17.2	430	37.6	340	0.267
Line Wire - Round ASC								
Quince	1/0 (7)	9.4	1.5	12.4	203	9.1	225	0.534
Fig	3/0 (7)	11.8	1.5	14.8	298	14.0	305	0.336
Mulberry	266.8 (19)	15.0	1.5	18.0	454	23.0	410	0.213
Annona	336.4 (19)	16.9	1.5	19.9	568	29.0	470	0.168
Line Wire - Round ASRC								
Walnut	6 (6/1)	5.0	0.8	6.6	70	5.19	95	2.06
Butternut	4 (6/1)	6.4	0.8	7.9	106	8.14	130	1.36
Pignut	2 (6/1)	8.0	1.1	10.3	173	12.4	170	0.853
Chestnut	1 (6/1)	9.0	1.1	11.3	215	15.5	195	0.677
Almond	1/0 (6/1)	10.1	1.5	13.1	277	18.9	225	0.536
Pecan	2/0 (6/1)	11.3	1.5	14.3	342	23.5	255	0.426
Filbert	3/0 (6/1)	12.7	1.5	15.7	425	29.6	295	0.338
Buckeye	4/0 (6/1)	14.3	1.5	17.3	528	37.3	335	0.268
Hackberry	266.8 (18/1)	15.5	1.5	18.5	522	31.2	435	0.213
Mockernut	336.4 (18/1)	17.4	1.5	20.4	648	39.4	475	0.169
--	477 (18/1)	20.7	2.0	24.8	927	54.6	595	0.119
Line Wire - Aluminum Alloy Compact 1350								
Bay	6 (7)	4.3	0.8	5.8	47	2.6	95	2.14
Hop	4 (7)	5.4	0.8	6.9	72	4.1	130	1.35
Sloe	2 (7)	6.8	1.1	9.1	117	6.2	170	0.846
Alder	1 (7)	7.6	1.1	9.9	159	7.4	200	0.67
Aspen *	1/0 (7)	8.5	1.5	11.6	191	9.1	225	0.533
Thorn	2/0 (7)	9.6	1.5	12.6	232	11.5	265	0.422
Barwood	3/0 (7)	10.7	1.5	13.8	284	14	305	0.334
Camwood	3/0 (18)	10.7	1.5	13.8	287	15.7	305	0.338
Dogwood	4/0 (7)	12.1	1.5	15.1	351	17.7	350	0.265
Oakwood	4/0 (18)	12.1	1.5	15.1	354	18.8	360	0.266
-	250 (7)	13.2	1.5	16.3	418	20.9	390	0.224
Redwood	266.8 (7)	13.6	1.5	16.7	441	22.3	410	0.21
Corkwood	266.8 (18)	13.6	1.5	16.7	443	23	410	0.212
Hornbeam *	300 (18)	14.5	1.5	17.5	491	25.8	440	0.188
Ironwood *	336.4 (18)	15.3	1.5	18.4	547	29	470	0.167
Beachwood	397.5 (18)	16.7	1.5	19.8	662	33.2	510	0.142
Buttonwood	477 (18)	18.3	2.0	22.4	797	39.9	590	0.118
-	500 (18)	18.7	2.0	22.8	850	41.8	600	0.114
* The same code word is used in the United States for different covered conductor constructions								

CONSTRUCTION CHARACTERISTICS TABLE - LINE WIRE

Code Word	Size (Stranding)	Nominal Conductor Diameter (mm)	Nominal Covering Thickness (mm)	Nominal Overall Diameter (mm)	Approx. Linear Mass (kg/km)	Rated Tensile Strength (kN)	Ampacity (A)	DC Resistance at 20°C (Ω/km)
Line Wire - Compact ACSR								
Acacia	8 (6/1)	3.7	0.8	5.2	43	3.3	70	3.42
Gum	6 (6/1)	4.6	0.8	6.1	61	5.2	95	2.15
Teak	4 (6/1)	5.8	0.8	7.3	111	8.1	130	1.36
Ebony	2 (6/1)	7.4	1.1	9.6	152	12.4	170	0.853
Liana	1 (6/1)	8.3	1.1	10.6	203	15.5	195	0.677
Bamboo	1/0 (6/1)	9.3	1.5	12.3	243	18.9	225	0.536
Corypha	2/0 (6/1)	10.4	1.5	13.5	324	23.5	255	0.426
Mahogany	3/0 (6/1)	11.7	1.5	14.7	403	29.6	295	0.337
Eucalyptus	4/0 (6/1)	13.1	1.5	16.2	500	37.3	335	0.268
-	336.4 (18/1)	16.0	1.5	19.0	627	39.4	475	0.169

Size (Stranding)	Conductor Type	Nominal Conductor Diameter (mm)	Nominal Covering Thickness (mm)	Nominal Overall Diameter (mm)	Linear Mass (kg/km)	Rated Tensile Strength (kN)	Ampacity (A)	DC Resistance at 20°C (ohm/km)
Line Wire - Medium Hard Copper								
4 (7)	Concentric	5.9	0.8	7.4	210	7.4	155	0.854
4 (7)	Compressed	5.7	0.8	7.2	208	7.4	155	0.854
2 (7)	Concentric	7.4	1.1	9.7	336	11.6	215	0.535
2 (7)	Compressed	7.2	1.1	9.5	334	11.6	215	0.537
1/0 (7)	Concentric	9.4	1.5	12.4	540	18.2	280	0.338
1/0 (7)	Compressed	9.2	1.5	12.2	534	18.2	280	0.339
2/0 (19)	Concentric	10.6	1.5	13.6	675	23.7	325	0.267
2/0 (19)	Compressed	10.3	1.5	13.3	667	23.7	325	0.269
4/0 (19)	Concentric	13.4	1.5	16.4	1047	37	440	0.169
4/0 (19)	Compressed	13.0	1.5	16.0	1042	37	440	0.169