TABLE I.—Ohmic Resistance and Approximate Ratios of Reactance to Resistance.

Size of Wire	Resistance. per mile of line.	Resistance. per 1000 ft. of line.	Ratio of Reactance to Resistance for the distance between wires of 6 in.	9 in.	12 in.	18 in.	24 in.	36 in.	60 in.
60 Cycles.									
300 000 C.M	0.365	0.069	2.10	2.40	2.60	2.90	3.05	3.30	3.65
No. 0000	0.518	0.098	1.65	1.82	2.00	2.15	2.30	2.50	2.70
000	0.653	0.124	1.35	1.50	1.60	1.75	1.86	2.00	2.20
00	0.824	0.156	1.10	1.22	1.32	1.44	1.50	1.65	1.80
0	1.04	0.197	0.91	1.00	1.06	1.15	1.22	1.34	1.45
1	1.31	0.248	0.74	0.81	0.86	0.94	0.98	1.08	1.15
2	1.65	0.313	0.60	0.65	0.70	0.75	0.80	0.86	0.94
3	2.08	0.394	0.50	0.53	0.57	0.62	0.65	0.70	0.75
4	2.63	0.497	0.41	0.43	0.46	0.50	0.53	0.57	0.62
5	3.31	0.627	0.31	0.35	0.38	0.41	0.43	0.46	0.50
6	4.18	0.791	0.26	0.29	0.31	0.33	0.35	0.37	0.40
40 Cycles.									
400 000 C.M.	0.275	0.052	1.80	2.00	2.15	2.48	2.65	2.90	3.20
300 000 "	0.365	0.069	1.42	1.60	1.74	1.91	2.03	2.20	2.44
No. 0000	0.518	0.098	1.10	1.22	1.32	1.45	1.53	1.66	1.82
000	0.653	0.124	0.91	1.00	1.07	1.17	1.25	1.34	1.47
00	0.824	0.156	0.74	0.82	0.88	0.95	1.01	1.09	1.20
0	1.04	0.197	0.61	0.67	0.71	0.77	0.82	0.90	0.96
1	1.31	0.248	0.50	0.54	0.58	0.63	0.66	0.72	0.78
2	1.65	0.313	0.40	0.43	0.47	0.50	0.53	0.57	0.63
3	2.08	0.394	0.34	0.36	0.38	0.42	0.43	0.46	0.50
4	2.63	0.497	0.27	0.29	0.31	0.33	0.35	0.38	0.41
5	3.31	0.627	0.21	0.23	0.25	0.27	0.29	0.31	0.33
6	4.18	0.791	0.18	0.19	0.21	0.22	0.24	0.26	0.27
25 Cycles.									
500 000 C.M.	0.211	0.040	1.40	1.60	1.75	1.95	2.05	2.30	2.50
400 000 "	0.275	0.052	1.15	1.25	1.35	1.55	1.65	1.80	1.98
300 000 "	0.365	0.069	0.89	1.00	1.08	1.20	1.27	1.38	1.52
No. 0000	0.518	0.098	0.69	0.76	0.84	0.90	0.96	1.04	1.12
000	0.653	0.124	0.56	0.63	0.67	0.73	0.78	0.84	0.92
00	0.824	0.156	0.46	0.51	0.55	0.60	0.63	0.68	0.75
0	1.04	0.197	0.38	0.42	0.44	0.48	0.51	0.56	0.60
1	1.31	0.248	0.31	0.34	0.36	0.39	0.41	0.45	0.48
2	1.65	0.313	0.25	0.27	0.29	0.31	0.33	0.36	0.39
3	2.08	0.394	0.21	0.22	0.24	0.26	0.27	0.29	0.31
4	2.63	0.497	0.17	0.18	0.19	0.21	0.22	0.24	0.26
5	3.31	0.627	0.13	0.15	0.16	0.17	0.18	0.19	0.21
6	4.18	0.791	0.11	0.12	0.13	0.14	0.15	0.16	0.17

Note.—The resistance in the table is given per mile and per 1000 feet of line: the length of wire is two miles and 2000 ft. respectively.

Ratio of Reactance to Resistance
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7