

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G31.075.1
Issue 1, January, 1952
AT&T Co Standard

OPEN WIRE
WEIGHTS

1. GENERAL

- 1.01 This section provides weights and associated data for the more frequently used line and tie wires.
- 1.02 The purpose is to facilitate estimating, ordering and the preparation of reports relating to these materials.

2. LINE WIRES

Size	Kind	Pounds per Mile	Pounds per Foot	Feet per Pound	Coils		
					Length	Wgt. in Lbs.	Eye Dia. Inches
083	Steel Line	99	.019	53.3	1/2 mi.	50	19
083	H Steel Line	99	.019	53.3	1 "	100	19
109	Steel Line	170	.032	31.1	1/2 "	85	19
109	H Steel Line	170	.032	31.1	.88 "	150	19
109	E Steel Line	170	.032	31.1	.88 "	150	19
134	Steel Line	258	.049	20.5	1/2 "	129	19
134	H Steel Line	258	.049	20.5	.58 "	150	19
165	Steel Line	390	.074	13.5	1/2 "	195	19
203	" "	590	.111	9.0	.33 "	197	19
080	Copper Line	102	.019	51.7	.83 "	85	19
104	" "	173	.033	30.5	1.07 "	185	19
128	" "	262	.050	20.2	.71 "	185	19
165	" "	435	.083	12.1	.42 "	185	19
080	Copper-Steel Line	93.5	.018	56.5	1.07 "	100	19
104	" "	158.5	.030	33.3	1.26 "	200	19
128	" "	240	.045	22.0	.83 "	200	19

3. TIE WIRES

Size	Kind	Length in Inches	Weight per 100 ties in Pounds	Tie Wires per Pound	Package
083	Steel Tie	12	1.9	53	10 lbs.
083	" "	14	2.2	46	" "
083	" "	26	4.0	25	" "
109	" "	12	3.2	31	" "
109	" "	14	3.7	27	" "
109	" "	30	8.3	12	" "
134	" "	12	5.0	20	" "
134	" "	14	5.9	17	" "
080	Copper Tie	17	2.7	36.5	" "
080	" "	19	3.1	32.6	" "
080	" "	24	3.9	25.8	" "
080	" "	26	4.2	23.8	" "
104	" "	19	5.2	19.3	" "
104	" "	21	5.7	17.5	" "
104	" "	24	6.5	15.3	" "
104	" "	28	7.6	13.1	" "
128	" "	22	9.1	11.0	" "
128	" "	24	9.9	10.1	" "
128	" "	28-1/2	11.8	8.5	" "
128	" "	32	13.2	7.6	" "
080	Copper-Steel Tie	17	2.5	39.7	" "
080	" " "	19	2.8	35.6	" "
080	" " "	24	3.6	28.1	" "
080	" " "	26	3.8	26.0	" "
104	" " "	19	4.8	21.0	" "
104	" " "	22	5.5	18.2	" "
104	" " "	24	6.0	16.7	" "
104	" " "	28-1/2	7.1	14.0	" "
104	" " "	32	8.0	12.5	" "

4. SAMPLE CALCULATION

Length of job	2370 ft.
Two conductors	× 2
Feet of wire required	4740 ft.
Weight of 109 steel wire	.032 lbs. per ft.
	9480
	14220
	151.680