

**PRIMARY CONSTANTS OF NON-LOADED CABLE (AT 68° F.)  
26 GAUGE ST, AST**

Primary Distributed Constants — Per Mile		
L = .952 Millihenries		
C = .069 Microfarads		
Frequency Cycles/Sec.	R Ohms	G Micromhos
50	440.0	0.05
100	440.0	0.10
200	440.0	0.18
300	440.0	0.24
500	440.0	0.39
1,000	440.0	1.0
2,000	440.0	2.7
3,000	440.1	4.9
5,000	440.2	9.7
8,000	440.4	18.7
10,000	440.5	25.4
15,000	441.0	41.0

**PRIMARY CONSTANTS OF NON-LOADED CABLE (AT 55° F.)  
THROUGH CARRIER FREQUENCIES  
26 GAUGE ST, AST**

Freq. Kc/Sec.	Per Mile				Resistance Temperature Coefficient $A_R^{**}$
	$R^*$ Ohms	$L^*$ Hen. $\times 10^{-3}$	$G^*$ Mhos $\times 10^{-6}$	$C^*$ Far. $\times 10^{-6}$	
0	422.0	.952	—	.0695	.0022
0.1	422.0	.952	0.10	.0693	.0022
0.2	422.0	.952	0.18	.0692	.0022
0.5	422.0	.952	0.39	.0691	.0022
1	422.0	.952	1.0	.0690	.0022
2	422.0	.951	2.7	.0689	.0022
5	422.2	.950	9.7	.0688	.0022
10	422.5	.949	25.4	.0687	.0022
15	423.0	.948	41	.0686	.0022
20	423.6	.947	63	.0685	.0022
50	426	.946	212	.0682	.0022
100	445	.944	506	.0680	.0021
200	500	.932	1,180	.0679	.0019
250	535	.925	1,530	.0679	.0018
500	690	.893	3,510	.0678	.0015
1,000	940	.845	7,470	.0678	.0012
2,000	1,290	.803	15,160	.0678	.0011
4,000	1,740	.772	30,100	.0678	.0011
5,000	1,945	.763	36,600	.0678	.0011
10,000	2,750	.741	65,800	.0678	.0011

\* Estimates based on extrapolations of available data on primary constants of toll and experimental cables, and measurements of insertion loss and phase delay of exchange cable circuits.

\*\*  $R_t$  (Resistance at temperature  $t$ ) =  $R_{55} [1 + A_R (t - 55)]$