

PRIMARY CONSTANTS OF NONLOADED CABLE  
24 GAUGE DSM, FSM

Freq. kHz	Per Mile At 68° F.*			
	R ohms	L mH	G μmhos	C μF
0	274.0	.954	.084	.0845
.1	274.0	.952	.127	.0842
.2	274.0	.952	.198	.0841
.3	274.0	.951	.288	.0841
.5	274.0	.951	.506	.0841
1	274.0	.950	1.22	.0840
2	274.1	.949	3.13	.0839
3	274.2	.948	5.52	.0838
5	274.3	.947	11.35	.0837
10	274.9	.945	30.35	.0836
15	275.9	.944	54.04	.0835
20	277.1	.943	81.40	.0834

Through Carrier Frequencies

Freq. kHz	Per Mile At 55° F.*			
	R ohms	L mH	G μmhos	C μF
0	266.3	.953	.094	.0841
.1	266.3	.952	.141	.0838
.2	266.3	.951	.220	.0838
.5	266.3	.950	.564	.0837
1	266.3	.949	1.36	.0836
2	266.4	.948	3.48	.0835
5	266.6	.947	12.64	.0834
10	267.2	.945	33.78	.0832
15	268.2	.944	60.15	.0831
20	269.3	.943	90.60	.0831
50	272	.918	290	.0830
100	305	.880	710	.0829
200	375	.838	1,650	.0828
250	403	.824	2,180	.0828
500	535	.783	4,930	.0828
1,000	735	.745	10,480	.0828
2,000	1,015	.714	21,300	.0828
4,000	1,400	.693	42,300	.0828
5,000	1,555	.690	51,400	.0828
10,000	2,200	.674	92,500	.0828

\* For temperature variations see page 2.

Estimated Average Temperature Variation\*

Freq. kHz	Per Mile Per Degree F.			
	R ohms	L mH	G μmhos	C μF
0	.59	.000047	- .00073	.000029
.1	.59	.000047	- .0011	.000029
.2	.59	.000047	- .0017	.000029
.3	.59	.000047	- .0025	.000029
.5	.59	.000047	- .0044	.000029
1	.59	.000047	- .011	.000029
2	.59	.000047	- .027	.000029
3	.59	.000047	- .048	.000029
5	.59	.000047	- .099	.000029
10	.59	.000047	- .26	.000029
15	.59	.000047	- .47	.000029
20	.59	.000047	- .71	.000029
50	.59	.000064	- 2.05	.000031
100	.60	.000088	- 4.17	.000033
200	.62	**	- 7.50	.000036
250	.62		- 8.74	.000037
500	.68		-12.01	.000041
1,000	.83		**	.000046
2,000	1.13			.000054
4,000	1.55			**
5,000	1.73			
10,000	2.44			

\* Average values between 34° and 76° F.

\*\* Effect of temperature variations at higher frequencies is uncertain.