

Engineering News



ALTEC Lansing Corporation
A SUBSIDIARY OF LING-ALTEC ELECTRONICS, INC.

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TECHNICAL LETTER NO. 103
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LOSS IN TELEPHONE CABLE CIRCUITS

<u>Wire Gauge</u>	<u>Type Loading</u>	<u>Res. Per Loop Mile (Ohms)</u>	<u>Impedance (Ohms)</u>	<u>Attenuation Per Mile, db</u>				<u>Cutoff(cps)</u>
				<u>500</u>	<u>1000</u>	<u>3000</u>	<u>5000</u>	
13	NL	20.7		.36	.47	.63	.70	*
16	NL	41.8	320	.51	.69	1.00	1.16	*
	M88		937		.24			3200
	H88		1130		.21			3900
19	NL	83.8	450	.77	1.06	1.68	2.03	*
	M88		950		.44			3200
	H88		1137		.38			3900
	H135		1413		.30			3200
	H175		1643		.27			2800
	B88		1565	NIL	.30	.01	.50	5500
	NL		168	576		1.80		
22	M88	168	905		.92			2900
	H88		1051		.79			3500
	H135		1306		.63			2800
	B88		1420		.60			5000
	B135		1765		.48			4000
	NL		270	750		2.30		
24	M88	270	1000		1.31			3100
	H88		1160		1.13			3700
	B88		1530		.86			5300
	NL		429		2.80			*

NL = Non-Loaded. M, H and B indicate loading-coil spacing 9,000, 6,000 and 3,000 ft. M88 indicates a circuit with 88 millihenry loading coils spaced at 9,000-foot intervals. *Non-loaded cables do not cutoff.