

WSHS Transmission Line Calculations

100' of Andrew LDF4-50

15' of Times Microwave LMR-400

<u>Line Efficiency</u>	<u>val 2</u>	<u>ratio</u>	<u>db volt</u>	<u>db pwr</u>
84.74%	1	0.8474	-1.44	-0.72
96.00%	1	0.96	-0.35	-0.18
100.00%	1	1	0.00	0.00
100.00%	1	1	0.00	0.00
100.00%	1	1	0.00	0.00
100.00%	1	1	0.00	0.00

existing line - 100' of Andrew LDF4-50

added line - 15' of Times Microwave LMR-400

new total line

Entire run total	81.35%
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Directions: Input line efficiency to get desired db power loss.
Multiply the efficiency of each section of cable to come up with the overall efficiency.