

Intermediate Line Irregularity Return Loss
LOADED INTERMEDIATE CABLE IN OPEN WIRE

The effect of loaded intermediate cable in open wire can be determined by computing the impedance of the cable terminated in characteristic open wire impedance and taking the return loss between this impedance and the characteristic open wire impedance. It can be determined more readily and, in general, with sufficient accuracy by adding the term F_y of the following table to the junction return loss between the cable and open wire impedances:

Length of Cable (Miles)	F_y in D-B		
	300 Cycles	1500 or 1600 Cycles	2400 or 2500 Cycles
0.5	+ 19	+ 7	+ 4
1.0	+ 14	+ 2	- 1
1.5	+ 11	- 1	- 4
2.0	+ 9	- 3	- 5
2.5	+ 7	- 4	- 5
3.0	+ 6	- 5	- 5
3.5	+ 5	- 5	- 5
4.0	+ 5	- 5	0
4.5	+ 3	- 5	+ 5
5.0	+ 3	- 4	+ 8
5.5	+ 2	- 4	+ 3
6.0	+ 2	- 4	- 1
6.5	+ 1	- 4	- 4
7.0	+ 1	- 4	- 4
7.5	0	- 4	- 4
8.0	0	- 3	- 3
8.5	0	- 4	- 4
9.0	- 1	- 3	- 3
9.5	- 1	- 3	- 3
10.0	- 1	- 3	- 3