Intermediate Equipment Return Loss

16A, 16B, AND D-85697 AUTOTRANSFORMERS

16A (or 14A) Autotransformer Between 19H-172-63 and 104 Mil O.W.

	Side Circuits						Phantom Circuits					
	At Cable End			At Open-Wire End			At Cable End			At Open-Wire End		
Freq.	.5	.75	.94	.5	.75	.94	.5	.75	.94	.5	.75	.94
300	15	15	15	11	12	13	14	14	14	15	16	17
500	22	26	26	14	16	17	19	19	19	19	21	24
1000	37	20	16	16	21	21	24	23	19	23	40	26
1500	27	14	10	17	19	14	30	21	15	24	24	18
2000	28	11	8	20	14	9	32	17	12	21	18	14
2500	22	10	5	30	8	5	21	14	10	17	14	11

16B (or 14B) Autotransformer Between 19 ga. H-88-50 and 104 Mil. O.W.

	Side Circuits						Phantom Circuits					
	At Cable End			At Open-Wire End			At Cable End			At Open-Wire End		
Freq.	.3	.5	.8	.3	.5	.8	.3	.5	.8	.3	.5	.8
300	17	18	17	12	14	14	16	17	17	16	16	17
500	23	26	29	14	16	18	19	21	21	18	20	22
1000	23	34	22	15	19	27	20	28	24	19	24	44
1500	21	32	18	15	20	26	18	34	21	17	25	23
2000	18	31	15	13	21	19	16	30	17	15	22	18
2500	15	38	13	13	23	14	14	22	15	13	17	15
3000	12	28	11	13	28	10	12	16	11	11	15	11

D-85697 Px. Group Autotransformer Between H-172-63 and 104 Mil O.W.

	Side Circuits		Phantom Circuits	
	At Cable End	At Open-Wire End	At Cable End	At Open-Wire End
Freq.				
500	15	15	24	18
1000	22	20	25	20
1500	27	22	23	20
2000	19	17	19	18
2500	11	11	15	14

Notes: (1) The return losses given in this Section are those due to inserting the autotransformers between 19-gauge cable facilities and 104-mil open-wire facilities but can be applied without appreciable error to other gauges and wire sizes. Return losses for a specific set of conditions can be computed by means of the T-networks given in Sections 304-231-100, 304-231-103 and 304-231-101. Note that the insertion return losses affecting the cable circuits are different from those affecting the open-wire circuits.

(2) The figure at the head of each column represents the fractional end section termination of the cable facility (in case of the D-85697 autotransformer data are given only for half section termination). Note that highest return losses are obtained with half section termination.