Equipment Losses at 1000 Cycles

REPEATING COILS - GENERAL

SIDE CIRCUITS

Coil on Side•••	Coil Ratio	Loss to Side Circuit - db• (assumes proper assignment to match line and drop impedances)			
		Line Impedance••			
		Extra Low	Low	Medium	High
95A	1:1	1.10	.65#	.45	.35
95B	1:1.62	.45	.45	.35	-
95C	1.62:1	-	.65	.45	.35
95D	1:2.66	.45	.35	-	-
95E	2.66:1	-	-	.45	.35
95F	1.62:1	-	1.10	.65	.45
95G	2.66:1	-	-	.95	.60
95H	1.62:1	-	1.10	.65	.45
95J	2.66:1	-	-	.95	.60
68F	1:1.88	1.10	.70	.55	-
68H	1:2.34	.70	.55	-	-
76E	1:1	-	.40	-	-
107A or 125A	1:1	-	.50	-	-
111C or D121708	1:1	-	.60	-	-
119C or D121712	1:1.35	-	.70	-	-
168A	1:1.32	-	.60	-	-
173##	##	.70	.70	.70	.70

PHANTOM CIRCUITS

Coil on Side Circuit	Loss to Phantom Circuit - db• (assumes proper assignment to match line and drop impedances)														
	Extra Low Impedance Phantom••					Low Impedance Phantom••					Medium Impedance Phantom••				
	Coil on Phantom Circuit•••					Coil on Phantom Circuit•••					Coil on Phantom Circuit•••				
	None	95A or 68F	95B	95D	68H	None	95A or C	95B	95F or H	68F	None	95A, C or E	95B	95F or H	95D or J
95A, C or E	.30	1.35	.90	.70	.95	.15	.80	.90	1.85	.85	.10	.55	.45	.75	1.05
95B or 68H	.15	1.85	.80	.60	.85	-	-	-	-	-	-	-	-	-	-
95D	.10	1.15	.70	.50	.75	-	-	-	-	-	-	-	-	-	-
95F or H	.40	1.95	1.10	.90	1.15	.20	.90	-	1.35	.95	.10	.60	.50	.80	1.10
95G or J	.60	-	-	-	-	.40	1.85	-	1.50	1.10	.30	.70	.60	.90	1.20
68F	.50	1.30	.85	.65	.90	-	-	-	-	-	-	-	-	-	-
76E	.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
107A or 125A	.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

• All loss data assume ½ mf or no midpoint condensers; add .1 db for 1 mf midpoint condensers.

•• Impedance Classification of Facilities

Extra Low Impedance Group	Low Impedance Group	Medium Impedance Group	High Impedance Group
Side Circuits 19 ga. NL cable 16 ga. NL cable 13 ga. NL cable	**Side Circuits** H-24 H-31 H-88 O-4.1 or A-2.7 O-4.8 or A-3.0 H-15 Open Wire 22 ga. NL cable 24 ga. NL cable	**Side Circuits** H-88 H-155 H-174 26 ga. NL cable	**Side Circuits** H-88 H-174 H-178 H-155 H-245
Phantom Circuits H-88 H-15 or H-16 CH-12.8 NL cable - any gauge Open Wire	**Phantom Circuits** H-85 H-30 H-89	**Phantom Circuits** H-30 H-106 H-155	
Other facilities having nominal impedances less than 500 ohms.	Other facilities having nominal impedances between 500 and 900 ohms.	Other facilities having nominal impedances between 900 and 1150 ohms.	Other facilities having nominal impedances over 1150 ohms.

••• Losses for Other Types of Coils
Types 18, 35, 75, 76 or 91 - same losses as for corresponding ratio 95-types
H30-type with permalloy cores - about .15 db less than for 95-type having approximately the same ratio
H20-type with silicon cores - about .15 db more than for 95-type having approximately the same ratio
68 or 85-types not listed above - about .1 db more loss than for corresponding 95-type

95A with equalizer as used on 16 ga. H-44 2-wire circuit gives .7 db loss

• ## Applies to 173-type hybrid repeating coils modified for 2-wire operation. Losses given assume that the impedance ratios of coils approximately match the impedances of the facilities involved.