

STRUCTURAL RETURN LOSSES
FOR STABILITY AND SINGING MARGIN DESIGN PURPOSES
EXCHANGE AREA FACILITIES

FACILITY TYPE		REFERENCE DEVIATION OF LOAD SPACING (PER CENT)										
		1	2	3	4	5	6	7	8	10	12	15
16	H175	21.5	19.9	18.0	16.4	14.8	13.5	12.3	11.2	9.5	7.9	6.2
19LC	"	23.6	22.0	20.1	18.5	16.9	15.6	14.4	13.3	11.6	10.0	8.2
16	H135	21.7	20.1	18.2	16.6	15.0	13.7	12.5	11.4	9.7	8.1	6.3
19LC	"	23.8	22.2	20.3	18.7	17.1	15.8	14.6	13.5	11.8	10.2	8.4
19HC	"	24.2	22.6	20.7	19.1	17.5	16.2	15.0	13.9	12.2	10.6	8.8
22	"	26.4	24.8	22.9	21.3	19.7	18.4	17.2	16.1	14.4	12.8	11.0
16	H88	22.3	20.7	18.8	17.2	15.6	14.3	13.1	12.0	10.3	8.7	6.9
19LC	"	24.6	23.0	21.1	19.5	17.9	16.6	15.4	14.3	12.6	11.0	9.2
19HC	"	25.0	23.4	21.5	19.9	18.3	17.0	15.8	14.7	13.0	11.4	9.6
22	"	27.2	25.6	23.7	22.1	20.5	19.2	18.0	16.9	15.2	13.6	11.8
24	"	28.4	26.8	24.9	23.3	21.7	20.4	19.2	18.1	16.4	14.8	13.0
26	"	29.7	28.1	26.2	24.6	23.0	21.7	20.5	19.4	17.7	16.1	14.3
16	H44	23.1	21.5	19.6	18.0	16.4	15.1	13.9	12.8	11.1	9.5	7.7
19LC	"	25.5	23.9	22.0	20.4	18.8	17.5	16.3	15.2	13.5	11.9	10.1
19HC	"	26.0	24.4	22.5	20.9	19.3	18.0	16.8	15.7	14.0	12.4	10.6
22	"	28.1	26.5	24.6	23.0	21.4	20.1	18.9	17.8	16.1	14.5	12.7
24	"	29.2	27.6	25.7	24.1	22.5	21.2	20.0	18.9	17.2	15.6	13.8
26	"	30.0	28.4	26.5	24.9	23.3	22.0	20.8	19.7	18.0	16.4	14.6
16	B88	16.6	15.7	14.4	13.1	11.8	10.7	9.6	8.6	6.9	5.5	3.7
19LC	"	19.2	18.3	17.0	15.7	14.4	13.3	12.2	11.2	9.5	8.1	6.3
19HC	"	19.4	18.5	17.2	15.9	14.6	13.5	12.4	11.4	9.7	8.3	6.5
22	"	21.1	20.2	18.9	17.6	16.3	15.2	14.1	13.1	11.4	10.0	8.2
24	"	22.4	21.5	20.2	18.9	17.6	16.5	15.4	14.4	12.7	11.3	9.5
26	"	24.0	23.1	21.8	20.5	19.2	18.1	17.0	16.0	14.3	12.9	11.1
16	B135	16.9	16.0	14.7	13.4	12.1	11.0	9.9	8.9	7.2	5.8	4.0
19LC	"	18.0	17.1	15.8	14.5	13.2	12.1	11.0	10.0	8.3	6.9	5.1
19HC	"	18.5	17.6	16.3	15.0	13.7	12.6	11.5	10.5	8.8	7.4	5.6
22	"	20.4	19.5	18.2	16.9	15.6	14.5	13.4	12.4	10.7	9.3	7.5
16	B175	16.6	15.7	14.4	13.1	11.8	10.7	9.6	8.6	6.9	5.5	3.7
19LC	"	18.2	17.3	16.0	14.7	13.4	12.3	11.2	10.2	8.5	7.1	5.3
16	M88	25.9	23.8	21.6	19.8	18.1	16.7	15.5	14.4	12.5	11.0	9.1
19LC	"	28.1	26.0	23.8	22.0	20.3	18.9	17.7	16.6	14.7	13.2	11.3
19HC	"	28.4	26.3	24.1	22.3	20.6	19.2	18.0	16.9	15.0	13.5	11.6
22	"	30.4	28.3	26.1	24.3	22.6	21.2	20.0	18.9	17.0	15.5	13.6
24	"	31.4	29.3	27.1	25.3	23.6	22.2	21.0	19.9	18.0	16.5	14.6
19LC	D88	21.7	20.2	18.7	17.2	15.8	14.5	13.4	12.3	10.6	9.1	7.3
19HC	"	22.2	20.7	19.2	17.7	16.3	15.0	13.9	12.8	11.1	9.6	7.8
22	"	24.7	23.2	21.7	20.2	18.8	17.5	16.4	15.3	13.6	12.1	10.3
24	"	26.0	24.5	23.0	21.5	20.1	18.8	17.7	16.6	14.9	13.4	11.6
26	"	27.5	26.0	24.5	23.0	21.6	20.3	19.2	18.1	16.4	14.9	13.1

Note 1: The return losses in this table are 63 per cent values at a critical frequency equal to 0.707 times the cutoff frequency. They are based on the capacitance deviation data for exchange cable given in Section AB23.191, Issue 2 and assume 750' reel lengths. These structural return losses are not suitable for echo design purposes.

Note 2: The designation HC indicates cable with a capacitance of 0.075 mf per mile or greater and LC indicates cable with a capacitance less than 0.075 mf per mile.