

Systems Data
REGULATING NETWORKS

Network Loss- db		Average Loss per Full Step - db		Range of Use ϕ Loss per Regulator Step - db	Full Regulation Provided for Facilities Indicated
Total	Step 0	Network Step	Regulator Step		
V1 Repeaters - average length regulator sections (not over 96 mi. equiv. aerial cable)					
2.75	1.5	.25	.25	Up to .28	
3.5	2.0	.31	.31	.29 - .35	
4.5	2.5	.41	.41	.36 - .45	19B50-P; 19H106-P; 16H25-P
5.5	3.0	.50	.50	.46 - .53	16H44-S
6.0	3.25	.56	.56	.54 - .57	19B88-S; 19H172-S; 19H63-P
6.5	3.75	.59	.59	.58 - .64	19H50-P
7.75	4.25	.69	.69	.65 - .75	19H88-S
8.75	4.75	.81	.81	.76 - .84	19H25-P
9.5	5.25	.88	.88	.85 - .90	
10.5	5.75	.94	.94	.91 up	19H44-S
V1 Repeaters - long regulator sections (over 96 mi. equiv. aerial cable)*					
8.0	4.0	.81	.41	Up to .45	19B50-P; 19H106-P; 16H25-P
10.0	5.0	1.00	.50	.46 - .53	16H44-S
11.0	5.5	1.13	.56	.54 - .57	19B88-S; 19H172-S; 19H63-P
12.0	6.0	1.19	.59	.58 - .62	19H50-P
13.0	6.5	1.31	.66	.63 - .67	
14.0	7.0	1.38	.69	.68 - .71	19H88-S
15.0	7.5	1.50	.75	.72 - .78	
16.0	8.0	1.63	.81	.79 - .82	19H25-P
17.0	8.5	1.69	.84	.83 - .87	
18.0	9.0	1.81	.91	.88 - .92	
19.0	9.5	1.88	.94	.93 up	19H44-S
22A Repeaters					
7.9	4.1	.83	.42	Up to .45	19B50-P; 19H106-P; 16H25-P
9.5	5.0	1.00	.50	.46 - .52	16H44-S
10.4	5.5	1.10	.55	.53 - .57	19B88-S; 19H172-S; 19H63-P
11.2	5.8	1.20	.60	.58 - .65	19H50-P
13.4	6.9	1.40	.70	.66 up	19H88-S
44A Repeaters					
8.5	4.3	.85	.43	Up to .48	19H106-P
10.9	5.5	1.09	.55	.49 - .67	19H174-S; 19H63-P
16.0	8.0	.80	.80	.68 - .87	19H25-P
19.0	9.5	.95	.95	.88 up	19H44-S

ϕ Procedure for selecting optimum regulating network is given in Section AB23.010.

* Not suitable for circuits equipped for V.F. telegraph.