INPUT IMPEDANCE OF LOADED CABLE
WITH SHORT-CIRCUIT AND OPEN-CIRCUIT TERMINATION
22 GAUGE CSA H44

Length kf	Frequency – Cycles per Second				
	300	500	1000	2000	3000
Mid-Section Iterative Impedance ($Z_o = \sqrt{Z_{sc}\,Z_{oc}}$)					
	940 −j 618 1125 /33.3°	813 −j 420 915 /27.3°	748 −j 232 783 /17.3°	770 −j 126 780 /9.3°	876 −j 99 882 /6.4°
Mid-Section Impedance with Short-Circuit Termination (Z_{sc})					
6	202 +j 84 219 /22.6°	205 +j 139 248 /34.2°	227 +j 299 376 /52.8°	375 +j 797 881 /64.8°	1796 +j2401 2999 /53.2°
12	417 +j 158 446 /20.7°	445 +j 264 518 /30.7°	660 +j 606 896 /42.6°	2202 −j1392 2605 /32.3°	257 −j 477 542 /61.7°
18	652 +j 202 682 /17.2°	750 +j 328 819 /23.6°	1596 +j 360 1636 /12.7°	349 −j 480 593 /54.0°	696 +j 586 910 /40.1°
24	906 +j 189 926 /11.8°	1114 +j 239 1139 /12.1°	1301 −j 760 1507 /30.3°	433 +j 77 440 /10.1°	893 −j 733 1155 /39.4°
30	1160 +j 93 1164 /4.6°	1383 −j 82 1385 /3.4°	679 −j 658 946 /44.1°	1006 +j 245 1035 /13.7°	580 +j 102 589 /10.0°
36	1361 −j 100 1365 /4.2°	1345 −j 479 1428 /19.6°	527 −j 400 661 /37.2°	932 −j 419 1022 /24.2°	1267 −j 187 1281 /8.4°
42	1455 −j 349 1496 /13.5°	1115 −j 680 1306 /31.4°	545 −j 215 586 /21.5°	589 −j 211 626 /19.7°	665 −j 154 683 /13.0°
Mid-Section Impedance with Open-Circuit Termination (Z_{oc})					
6	81 −j5768 5769 /89.2°	71 −j3375 3376 /88.8°	74 −j1629 1631 /87.4°	79 −j 685 690 /83.4°	105 −j 237 259 /66.0°
12	134 −j2838 2841 /87.3°	132 −j1612 1617 /85.3°	152 −j 667 684 /77.2°	227 +j 55 234 /13.7°	943 +j1081 1434 /48.9°
18	200 −j1845 1856 /83.8°	209 −j1000 1022 /78.2°	254 −j 276 375 /47.3°	836 +j 594 1026 /35.4°	516 −j 682 855 /52.9°
24	275 −j1339 1367 /78.4°	291 −j 675 735 /66.7°	406 −j 31 407 /4.3°	1213 −j 664 1383 /28.7°	602 +j 301 673 /26.6°
30	350 −j1029 1087 /71.2°	378 −j 471 604 /51.2°	639 +j 107 648 /9.5°	497 −j 314 588 /32.3°	1217 −j 512 1320 /22.8°
36	429 −j 822 927 /62.4°	480 −j 336 586 /35.0°	927 +j 42 928 /2.6°	592 +j 58 595 /5.6°	605 −j 47 607 /4.4°
42	508 −j 677 846 /53.1°	589 −j 253 641 /23.2°	1019 −j 237 1046 /13.1°	971 +j 19 971 /1.1°	1140 +j 4 1140 /0.2°

MID-SECTION IMPEDANCE WITH SHORT-CIRCUIT TERMINATION

22 GAUGE CSA H44

MAGNITUDE (OHMS)

MID-SECTION IMPEDANCE WITH SHORT-CIRCUIT TERMINATION

22 GAUGE CSA H44

ANGLE (DEGREES)

MID-SECTION IMPEDANCE WITH OPEN-CIRCUIT TERMINATION

22 GAUGE CSA HL1

MAGNITUDE (OHMS)

MAGNITUDE (OHMS)

LENGTH (KILOFEET)

MID-SECTION IMPEDANCE WITH OPEN-CIRCUIT TERMINATION

22 GAUGE CSA H88

ANGLE (DEGREES)

ANGLE (DEGREES)

LENGTH (KILOFEET)