

**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
<u>Mid-Section Iterative Impedance (<math>Z_o = \sqrt{Z_{sc} Z_{oc}}</math>)</u>					
	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°
<u>Mid-Section Impedance with Short-Circuit Termination (<math>Z_{sc}</math>)</u>					
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°
<u>Mid-Section Impedance with Open-Circuit Termination (<math>Z_{oc}</math>)</u>					
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 / 53.2°	589 -j 253 641 / 23.2°	1019 -j 237 1046 / 13.1°	971 +j 19 971 / 1.1°	1140 +j 4 1140 / 0.2°







