

**INPUT IMPEDANCE OF LOADED CABLE  
WITH SHORT-CIRCUIT AND OPEN-CIRCUIT TERMINATION  
22 GAUGE CSA H88**

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>					
	1135 -j 524 1250 / 24.8°	1057 -j 339 1110 / 17.8°	1035 -j 177 1050 / 9.7°	1191 -j 105 1196 / 5.0°	1868 -j 185 1877 / 5.7°
<u>Mid-Section Impedance with Short-Circuit Termination (<math>Z_{sc}</math>)</u>					
6	210 +j 170 270 / 39.1°	227 +j 309 383 / 53.7°	270 +j 656 709 / 67.6°	1096 +j2727 2939 / 68.1°	611 -j3328 3384 / 79.6°
12	445 +j 334 556 / 36.9°	548 +j 634 838 / 49.2°	1495 +j1738 2292 / 49.3°	356 -j1077 1134 / 71.7°	1541 +j2276 2749 / 55.9°
18	730 +j 473 870 / 32.9°	1161 +j 924 1484 / 38.5°	2242 -j1874 2922 / 39.9°	477 +j 462 664 / 44.1°	631 -j 194 660 / 17.1°
24	1097 +j 545 1225 / 26.4°	2227 +j 588 2303 / 14.8°	571 -j 882 1051 / 57.1°	2945 -j 637 3013 / 12.2°	2343 -j1938 3041 / 39.6°
30	1535 +j 463 1603 / 16.8°	2282 -j 821 2425 / 19.8°	480 -j 245 539 / 27.0°	594 -j 349 689 / 30.4°	1926 +j 994 2167 / 27.3°
36	1918 +j 131 1922 / 3.9°	1340 -j1153 1768 / 40.7°	684 +j 177 707 / 14.5°	1180 +j 591 1320 / 26.6°	1145 -j 296 1183 / 14.5°
42	2035 -j 381 2070 / 10.6°	882 -j 888 1252 / 45.2°	1208 +j 324 1251 / 15.0°	1361 -j 703 1532 / 27.3°	2367 -j 838 2511 / 19.5°
<u>Mid-Section Impedance with Open-Circuit Termination (<math>Z_{oc}</math>)</u>					
6	131 -j5785 5787 / 88.7°	39 -j3217 3217 / 89.3°	81 -j1555 1557 / 87.0°	103 -j 479 490 / 77.9°	382 +j 966 1039 / 68.4°
12	171 -j2804 2809 / 86.5°	133 -j1464 1470 / 84.8°	175 -j 449 482 / 68.7°	598 +j1120 1270 / 61.9°	498 -j1178 1279 / 67.1°
18	234 -j1781 1796 / 82.5°	227 -j 798 830 / 74.1°	354 +j 132 378 / 20.5°	1279 -j1753 2170 / 53.9°	5299 +j 548 5327 / 5.9°
24	309 -j1238 1276 / 76.0°	341 -j 412 535 / 50.4°	832 +j 643 1051 / 37.7°	478 +j 20 478 / 2.4°	1017 +j 550 1156 / 28.4°
30	390 -j 893 975 / 66.4°	489 -j 138 508 / 15.8°	2033 +j 271 2051 / 7.6°	1957 +j 736 2091 / 20.6°	1269 -j1010 1622 / 38.5°
36	484 -j 654 813 / 53.5°	694 +j 62 697 / 5.1°	1297 -j 872 1563 / 33.9°	878 -j 647 1091 / 36.4°	2966 +j 171 2971 / 3.3°
42	587 -j 475 755 / 39.0°	970 +j 164 984 / 9.6°	729 -j 499 883 / 34.4°	896 +j 283 940 / 17.5°	1385 +j 202 1400 / 8.3°







