

INPUT DATA FOR TLMEASV8.MCD

Version 8.1.01

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See "Transmission Line Properties from Measured Data" by Frank Witt, AI1H
ARRL Antenna Compendium, Volume 6

MEASURED DATA AND ESTIMATE OF VELOCITY FACTOR AND INSULATION EXPONENT

Substitute these data measured for other cable segments for the input data on Page 1 of TLMEASV8.MCD.

22 ft 3½ in RG58C cable
(Wireman 127)
measured at 3.6 MHz
by Pete Schuch, WB2UAQ
with HP 8753B
Network Analyzer

$F := 3.6 \text{ MHz}$
 $Z_{OCF} := .80 - 50.20 \cdot j \text{ ohms}$
 $Z_{SCF} := 3.53 + 51.78 \cdot j \text{ ohms}$

Length := 22.29 feet
 $VF_{est} := .66$
 $g := 1.0$

22 ft 3½ in RG58C cable
(Wireman 127) at 3.6 MHz
derived from TLMAN.MCD

$F := 3.6 \text{ MHz}$
 $Z_{OCF} := .8921 - 50.9275 \cdot j \text{ ohms}$
 $Z_{SCF} := 3.2394 + 49.0389 \cdot j \text{ ohms}$

Length := 22.29 feet
 $VF_{est} := .66$
 $g := 1.0$

5 ft 1½ in RG214 cable
(Belden 8268) at 145 MHz
derived from TLMAN.MCD

$F := 145 \text{ MHz}$
 $Z_{OCF} := 1.0445 - 39.0704 \cdot j \text{ ohms}$
 $Z_{SCF} := 1.9135 + 63.936 \cdot j \text{ ohms}$

Length := 5.125 feet
 $VF_{est} := .66$
 $g := 1.35$

22 ft 3½ in RG58A cable
(Belden 8259) at 3.6 MHz
derived from TLMAN.MCD

$F := 3.6 \text{ MHz}$
 $Z_{OCF} := .821 - 50.9315 \cdot j \text{ ohms}$
 $Z_{SCF} := 3.3464 + 49.0344 \cdot j \text{ ohms}$

Length := 22.29 feet
 $VF_{est} := .66$
 $g := 1.1$

22 ft 3½ in RG58A cable
(Belden 8259) at 10.8 MHz
derived from TLMAN.MCD

$F := 10.8 \text{ MHz}$
 $Z_{OCF} := 4.2195 + 47.215 \cdot j \text{ ohms}$
 $Z_{SCF} := 3.1475 - 52.67 \cdot j \text{ ohms}$

Length := 22.29 feet
 $VF_{est} := .66$
 $g := 1.1$