

Transmission lines

The following link has a good (but long) explanation of what a transmission line is and where the characteristic impedance comes from (i.e. 50Ω , 75Ω , etc). Skim through the [Characteristic impedance](#) section. Link to transmission line chapter: http://www.ibiblio.org/obp/electricCircuits/AC/AC_14.html

Note: this is one chapter of a **free** open book program. You can download the entire book from: <http://www.ibiblio.org/obp/electricCircuits>

This link has a shorter summary of transmission lines and how to calculate the propagation velocity, reflection coefficient, and return loss.

<http://www.madisoncable.com/RFCoaxialCables.asp>