

Chapter 3 - Transmission Lines and Waveguides

First, some definitions:

Transmission Line - A two conductor structure that can support a TEM wave.

Waveguide - A one conductor structure that cannot support a TEM wave.

Q: *What is a TEM wave?*

A: An electromagnetic wave wherein **both** the electric and magnetic fields are **perpendicular** to the direction of wave propagation.

HO: WAVEGUIDE

3.5 Coaxial Line

Reading Assignment: *p. 130*

The most **prevalent** type of transmission line is the **coaxial** transmission line.

HO: COAXIAL TRANSMISSION LINES