PROCEDURE TO MEASURE COAXIAL CABLE LOSS

Overview

Following is a method to determine the actual loss in a length of coaxial cable using a transmitter set to a desired frequency, a Watt meter, and a dummy load rated at a wattage greater than the power output of the transmitter.

Procedure

- 1. Make the connections as shown in Figure-1.
- 2. Key the transmitter and record the forward reading from the Watt meter.
- 3. Make the connections as shown in Figure-2
- 4. Key the transmitter and record the forward reading from the Watt meter.
- 5. Calculate the cable loss using the following formula:

dB Loss =
$$10LOG(P_{step2}/P_{step4})$$

Example: dB Loss = 10*LOG(100/50)

dB Loss = 10*LOG(2) dB Loss = 10*0.3010299

dB Loss = 3.01

