



In the telecommunication field transmission lines are used to convey the signals from one point to another. The line properties become very important specially in multi-channel systems. Sciencetech Transmission line trainer Sciencetech 2266 is unique in design for experimenting various properties of the line. The trainer provides basic concept of coaxial line and include devices and accessories to conduct the experiment.

### Features

- Self contained easy to operate trainer
- On board line, terminating resistance and test generators
- Functional blocks indicated on board mimic
- Built in Power Supply
- Exhaustive learning material
- Compact size

### Scope of Learning

- Measuring the characteristics of a line
- Measuring the attenuation of a line
- Measuring the Input Impedance of the Line
- Frequency characteristic of the line
- Study of Stationary Waves
- Line under Pulsed condition
- Signal Phase shift along the line
- Fault localization within the line

### Technical Specifications

Transmission Line : Coaxial cable 100m (25 m x 4)  
 Impedance matching resistance : 0 - 100 Ohms. 2 nos.

#### Test Generators :

Sine Wave 40 KHz - 400 KHz (Low Range)

Square Wave 400 KHz - 4MHz (High Range)

Interconnections : 2 mm Banana sockets

Test Points : 10

Power Supply : 230 V  $\pm$ 10%, 50/60 Hz

Power Consumption : 3 VA approximately

Weight : 5.5 Kg. approximately

Dimensions (mm) : W 450 x H 113 x D 280

#### Package contains :

BNC to BNC Cable : 1 no.

BNC to Test Prod Cable : 1 no.

Patch Cord 16" : 14 nos.

Mains cord : 1 no.