

3.5mm SLIDING TERMINATIONS

Features

- Broadband
- Accurate 50 ohm — Air Line
- Low VSWR
- APC3.5 Precision Connectors



Model 8035A

Description

Maury's model 8035A 3.5mm sliding termination is a movable, low reflection air line type load, supplied with interchangeable female and male connectors for making precision measurements from 2.0 to 34 GHz.

Model 8035A consists of a broadband low reflection tapered polyiron load housed in a precision air transmission line. The load is movable over at least one-half wavelength at its lowest rated frequency in order to reverse the phase of its reflection and separate it from other reflections present in the system. The connectors are beadless; and the center conductors are movable so that the center conductor can be set to the correct connector interface conditions with the aid of an appropriate connector gage. A single center conductor is provided with interchangeable female and male contacts.

The model 8035A sliding termination is supplied in a wooden instrument case.

Specifications

Frequency Range	2.0 — 34 GHz
Terminating Element VSWR	
1.090 maximum, 2 — 4 GHz (<1.06 typical)	
1.050 maximum, 4 — 34 GHz (<1.03 typical)	
Connector VSWR.....	<1.02 + 0.002f GHz female, 1.01 + 0.001f GHz female,
Nominal Impedance.....	50 ohms
Air Line Size	See chart
Air Line Accuracy.....	≥44dB return loss
Power Handling.....	1.0 watts cw, 1.0 kw peak
Travel.....	Greater than 1/2 wavelength at 2.0 GHz
Connectors	APC3.5 female and male ¹

Model	Connectors	Frequency Range GHz	Airline
8035A	APC3.5mm female and male	2 — 34 GHz	3.5mm 0.0598 Center conductor 0.1378 Outer conductor

¹ APC3.5 is a 3.5mm air interface connector that is mode free to 34 GHz and mates with SMA connectors. For additional interface information, refer to Maury Engineering Specification ES062.