

Sliding Terminations — Metrology Grade

1.85mm, 2.4mm, 2.92mm and 3.5mm

Features

- ▶ Integral Connectors
- ▶ "Flush Set" Adjustment
- ▶ "Pull Back" Mechanism & Lock
- ▶ Thermal Isolation
- ▶ Enhanced Air Line Accuracy

Description

These metrology grade sliding terminations achieve a high level of accuracy, stability and repeatability when used as impedance standards for calibrating vector network analyzers (VNAs) and in other critical, precision measurement applications.

They feature seamless, integral, beadless (air dielectric) connectors that provide an extremely accurate impedance reference, and an external jacket that enhances thermal stability by insulating the transmission line.

When used with "thread-on" connector gages, a "flush set" mechanism allows users to adjust the center conductor to achieve a coplanar inner and outer conductor interface at the connector mating plane. A "pull back" mechanism automatically locks the center conductor to a previously set flush condition, making it easy to return to flush condition from any other position.

These terminations are available individually, with female or male connectors, or in boxed sets with one each of both sexes, per the **Specifications** chart (below).

Specifications

MODEL	CONNECTOR TYPE	FREQUENCY RANGE & MAXIMUM VSWR ¹	AIR LINE ACCURACY ²	POWER HANDLING
7835A	1.85mm female	8.0 GHz — 67.0 GHz, 1.05	42 dB (4.0 — 67.0 GHz)	0.5 watts CW, 0.5 kW peak
7835B	1.85mm male			
7835C	1.85mm boxed set (1 ea. 7835A female and 7835B male) ³			
7935A	2.4mm female	4.0 GHz — 10.0 GHz, 1.10 10.0 GHz — 50.0 GHz, 1.05	42 dB (4.0 — 50.0 GHz)	0.5 watts CW, 0.5 kW peak
7935B	2.4mm male			
7935C	2.4mm boxed set (1 ea. 7935A female and 7935B male) ³			
8777A1	2.92mm (K) female	4.0 GHz — 10.0 GHz, 1.10 10.0 GHz — 40.0 GHz, 1.05	46 dB (4.0 — 40.0 GHz)	0.5 watts CW, 0.5 kW peak
8777B1	2.92mm (K) male			
8777C1	2.92mm (K) boxed set (1 ea. 8777A1 female and 8777B1 male) ³			
8037A	3.5mm female	2.0 GHz — 4.0 GHz, 1.09 4.0 GHz — 34.0 GHz, 1.05	50 dB (4.0 — 34.0 GHz)	1.0 watts CW, 1.0 kW peak
8037B	3.5mm male			
8037C	3.5mm boxed set (1 ea. 8037A female and 8037B male) ³			
2608C	7mm (LPC7)	1.8 GHz — 18.0 GHz, 1.035	62 dB	1.0 watt CW, 1.0 kW peak
8834A	Type N female	2.0 GHz — 18.0 GHz, 1.04	54 dB	
8834B	Type N male			
8834C	Type N boxed set (1 ea. 8834A female and 8834B male) ³			

¹ Maximum VSWR (50 ohm reference) of the terminating element alone.

² Equivalent return loss of the air line impedance (50 ohm reference).

³ Supplied in a foam-lined wood instrument case.

