

# Sliding Terminations — Precision Dedicated Connectors

## 7mm (LPC7A), Type N, TNC, AFTNC, TNCA, SMA and 14mm (LPC14)

### Features

- ▶ *Dedicated (Non-Interchangeable) Precision Connectors*
- ▶ *Low Reflection*
- ▶ *Greater than 1/2-λ Travel at Lowest Frequency*



### Description

These sliding terminations feature dedicated connectors. Those with sexed connectors (e.g., type N), are available in two models; one each with female and male connectors. Except as noted, the terminating elements are capable of handling higher power than typical laboratory sliding loads.

TNC and SMA terminations are precision air lines with low-reflection transformers to the dielectrically loaded connectors. Their air dielectric connectors and movable center conductors permit precision setting of the connector interface condition, using an appropriate connector gage.

### Specifications

Frequency Range . . . . . See chart  
 VSWR (terminating element) . . . . . See chart  
 Power Rating . . . . . See chart  
 Nominal Impedance . . . . . 50 ohm  
 Air Line Accuracy . . . . . See chart  
 Travel . . . . . >1/2 wavelength at lowest rated frequency  
 Connectors . . . . . See chart  
 Note: Wood instrument cases are provided with many of these units or are available as optional accessories.

### Available Models

MODEL	CONNECTOR TYPE	FREQUENCY RANGE & MAXIMUM VSWR <sup>1</sup>	AIR LINE ACCURACY <sup>2</sup>	POWER HANDLING
2517H	LPC7A <sup>3</sup>	2.0 GHz — 18.0 GHz, 1.04	52 dB	1.0 watt CW, 5.0 kW peak
453A1	Type N female <sup>4</sup>	1.8 GHz — 18.0 GHz, 1.05	56 dB	5.0 watt CW, 1.0 kW peak
453B1	Type N male <sup>4</sup>			
493A	Type N female <sup>4</sup>	0.9 GHz — 18.0 GHz, 1.10		
493B	Type N male <sup>4</sup>	1.8 GHz — 18.0 GHz, 1.05		
452A1	TNC female <sup>5</sup>	1.8 GHz — 18.0 GHz, 1.05		
452B1	TNC male <sup>5</sup>			
487A	SMA female <sup>6</sup>	0.9 GHz — 1.8GHz, 1.10		
487B	SMA male <sup>6</sup>	1.8 GHz — 18.0 GHz, 1.05		
8683A	AFTNC female <sup>7</sup>	2.0 GHz — 4.0 GHz, 1.04		
8683B	AFTNC male <sup>7</sup>	4.0 GHz — 20.0 GHz, 1.05		
8673A	TNCA female <sup>8</sup>	2.0 GHz — 4.0 GHz, 1.04		
8673B	TNCA male <sup>8</sup>	4.0 GHz — 20.0 GHz, 1.05		
2408A1	LPC14 <sup>9</sup>	0.9 GHz — 1.5 GHz, 1.08	64 dB	2.0 watts CW, 2.0 kW peak
		1.5 GHz — 2.0 GHz, 1.04		
		2.0 GHz — 8.5 GHz, 1.03		

<sup>1</sup> Maximum VSWR (50 ohm reference) of the terminating element alone.

<sup>2</sup> Equivalent return loss of the air line impedance (50 ohm reference).

<sup>3</sup> Air interface connector per Maury data sheet 5E-061 with a spring-loaded, self-centering, center pin that mates with standard 7mm connectors.

<sup>4</sup> Precision stainless steel type N per Maury data sheet 5E-049.

<sup>5</sup> Precision stainless steel TNC per ES-2047.

<sup>6</sup> Precision stainless steel SMA per MIL-C-39012.

<sup>7</sup> Precision TNC MIL-C-87104/2 per Maury data sheet 5E-056.

<sup>8</sup> Precision TNCA MIL-STD 348A per Maury data sheet 5E-058.

<sup>9</sup> Movable center conductor permits setting of connector interface conditions.