



REFERENCE AIR LINES

Precision 2.92mm Connectors

Description

The Maury 8774C/B series reference air lines are beadless precision 2.92mm coaxial transmission lines which are held to extremely tight tolerances to provide a highly accurate 50 ohm impedance standard, utilizing precision 2.92mm connectors. The male connector is equipped with a special coupling nut which can be retracted to expose the end of the connector for ease of assembly.

These precision air lines are fabricated from beryllium copper and are gold plated for low loss and to prevent tarnishing. The special retractable coupling nut is made from stainless steel. All units are equipped with flats for standard wrenches to prevent excessive wear of the mating surfaces when making connections.



Specifications

Frequency Range DC to 40.0 GHz
 Impedance 50 ohms nominal
 VSWR 48 dB minimum ¹
 Electrical Length see chart
 Electrical Length Accuracy ±0.0025 cm
 Connectors 2.92mm male with retractable coupling nut and 2.92mm female

Model	Electrical Length (cm)	Odd 1/4 Wavelength Frequency (GHz)		Connectors
8774C15	14.990	(2n+1)	0.50	Female to male
8774C10	9.993	(2n+1)	0.75	Female to male
8774C7.5	7.495	(2n+1)	1.00	Female to male
8774C5	4.997	(2n+1)	1.50	Female to male
8774C3	2.998	(2n+1)	2.50	Female to male
8774B15	14.990	(2n+1)	0.50	Male to male
8774B10	9.993	(2n+1)	0.75	Male to male
8774B7.2	7.195	(2n+1)	1.04	Male to male
8774B6.8	6.795	(2n+1)	1.10	Male to male

¹ Excluding connector interfaces.