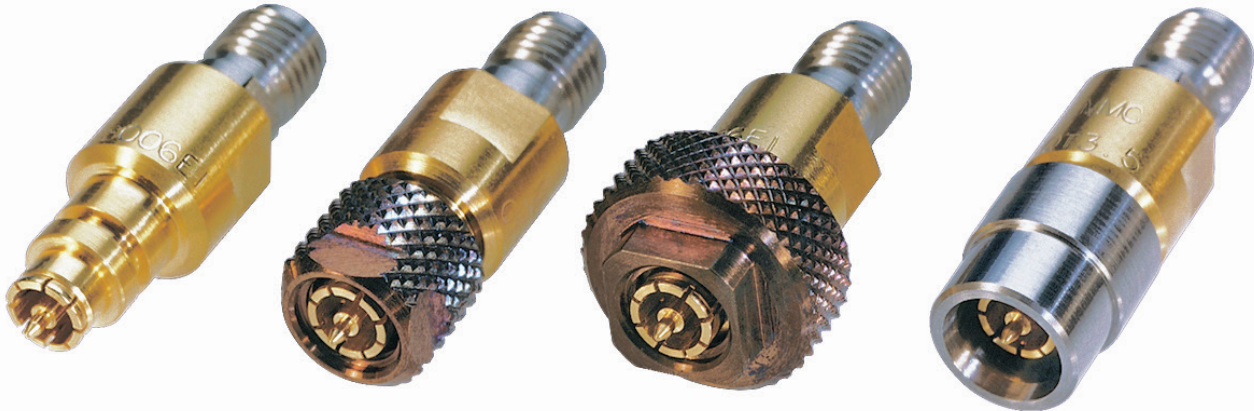


PRECISION ADAPTERS

8006 Series 3.5mm (QT3.5mm™) "QUICK TEST" CONNECTOR

U.S. Patent No. 6,210,221



8006E1
No Nut

8006E11
3/8" Nut

8006E21
9/16" Nut

8006Q1
Guide Sleeve

8006-Series Adaptors

Features

- Quick & Easy Push-On/Pull-Off Design
- Excellent Repeatability/Low VSWR
- Designed for Long Life (3,000 Connect/Disconnect Cycles)
- Guide Sleeve Design for Automated Applications

Description

The QT3.5mm™ male connector incorporates a quick connect design that provides for a push-on/pull-off capability that mates with any commercially available SMA, 3.5mm, and 2.92mm female connectors. The optional quick 1-1/2 turn twist nut combines the best of both worlds allowing quick connect or disconnect with the increased accuracy of a thread-on connector. In addition to the no nut and quick turn nut designs, a guide sleeve configuration is available to provide a self-aligning capability required in automated test stations.

The push-on connector offers excellent repeatability and long life making these adaptors ideal for use in a production environment. The nut can also be torqued to

8 in. lbs making them suitable for test port applications where a calibration is required. The connectors come in four configurations: no nut, a 3/8" diameter nut, a 9/16" diameter nut, and a guide sleeve configuration.

Repeatability*

MODE	DC — 18 GHz	18 — 26.5 GHz
Push-On	> 40 dB	> 40 dB
Torqued to 8 in. lbs	> 50 dB	> 50 dB
Hand Torqued	> 50 dB	> 50 dB

*Repeatability is based on a minimum of 3,000 connect/disconnect cycles.

QT3.5mm Connector Description

The Maury QT3.5mm™ Quick Test design, that provides a push-on/pull-off capability that mates with any commercially available SMA, 3.5mm, and 2.92mm female connector. The optional quick-twist nut (requiring only 1-1/2 turns) combines the ease of a push-on/pull-off connector with the

greater security and accuracy of a thread-on connector. In addition to the "no-nut" (push-on/pull-off) and the "quick-twist" nut designs, a guide sleeve configuration is available to provide for self-aligning required in automated test stations.

Available Models

Model	Adapts		Frequency Range (GHz)	Maximum VSWR (GHz)
	Side A	Side B		
8006B1	QT3.5mm™ (m) with no nut	7mm	DC — 18.0	DC — 4.0 ≤ 1.04 4.0 — 18.0 ≤ 1.08
8006B11	QT3.5mm™ (m) with 3/8" diameter nut			
8006B21	QT3.5mm™ (m) with 9/16" diameter nut			
8006C1	QT3.5mm™ (m) with no nut	NMD3.5mm (f)	DC — 26.5 ¹	DC — 16.0 ≤ 1.08 16.0 — 26.5 ≤ 1.12
8006C11	QT3.5mm™ (m) with 3/8" diameter nut			
8006C21	QT3.5mm™ (m) with 9/16" diameter nut			
8006E1	QT3.5mm™ (m) with no nut	3.5mm (f)	DC — 26.5 ¹	DC — 16.0 ≤ 1.05 16.0 — 26.5 ≤ 1.08
8006E11	QT3.5mm™ (m) with 3/8" diameter nut			
8006E21	QT3.5mm™ (m) with 9/16" diameter nut			
8006F1	QT3.5mm™ (m) with no nut	3.5mm (m)	DC — 18.0	DC — 16.0 ≤ 1.05 16.0 — 26.5 ≤ 1.08
8006F11	QT3.5mm™ (m) with 3/8" diameter nut			
8006F21	QT3.5mm™ (m) with 9/16" diameter nut			
8006G1	QT3.5mm™ (m) with no nut	Type N (f)	DC — 18.0	DC — 4.0 ≤ 1.05 4.0 — 18.0 ≤ 1.08
8006G11	QT3.5mm™ (m) with 3/8" diameter nut			
8006G21	QT3.5mm™ (m) with 9/16" diameter nut			
8006H1	QT3.5mm™ (m) with no nut	Type N (m)	DC — 18.0	DC — 14.0 ≤ 1.05 4.0 — 18.0 ≤ 1.08
8006H11	QT3.5mm™ (m) with 3/8" diameter nut			
8006H21	QT3.5mm™ (m) with 9/16" diameter nut			
8006K1	QT3.5mm™ (m) with no nut	NMD2.4mm (f)	DC — 26.5 ¹	DC — 16.0 ≤ 1.08 16.0 — 26.5 ≤ 1.12
8006K11	QT3.5mm™ (m) with 3/8" diameter nut			
8006K21	QT3.5mm™ (m) with 9/16" diameter nut			
8006Q1	QT3.5mm™ (m) guide sleeve	3.5mm (f)	DC — 26.5 ¹	DC — 16.0 ≤ 1.05 16.0 — 26.5 ≤ 1.08

¹ Slightly reduced VSWR specifications to 34 GHz.