

3.5mm (QT3.5mm™) Quick Test Adapters

8006 Series (U.S. Patent No. 6,21,221)

Features

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



8006E1
No Nut

8006E11
3/8" Nut

8006E21
9/16" Nut

8006Q1
Guide Sleeve

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 adapters 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.

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
8006B11	QT3.5mm™ (m) with 3/8" diameter nut			4.0 — 18.0	≤ 1.08
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
8006C11	QT3.5mm™ (m) with 3/8" diameter nut			16.0 — 26.5	≤ 1.12
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
8006E11	QT3.5mm™ (m) with 3/8" diameter nut			16.0 — 26.5	≤ 1.08
8006E21	QT3.5mm™ (m) with 9/16" diameter nut				
8006F1	QT3.5mm™ (m) with no nut	3.5mm (m)	DC — 26.5 ¹	DC — 16.0	≤ 1.05
8006F11	QT3.5mm™ (m) with 3/8" diameter nut			16.0 — 26.5	≤ 1.08
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
8006G11	QT3.5mm™ (m) with 3/8" diameter nut			4.0 — 18.0	≤ 1.08
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
8006H11	QT3.5mm™ (m) with 3/8" diameter nut			4.0 — 18.0	≤ 1.08
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
8006K11	QT3.5mm™ (m) with 3/8" diameter nut			16.0 — 26.5	≤ 1.12
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.