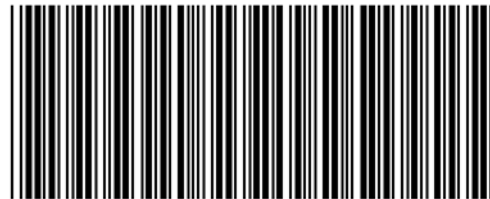


User's and Service Guide

Agilent 11857D **7 mm Test Port Return Cable Set**



Agilent Technologies



11857-90014

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General Information

To obtain optimum performance from this cable set, observe these simple precautions:

- Flex and straighten the cables as little and seldom as possible.
- Make connections carefully to avoid misalignment and connector damage or inaccurate measurements.
- Keep the connectors free of dirt and metallic particles.
- If you must clean the connectors, try clean compressed air first. Do not use abrasives. With a plastic swab, apply *only* liquid Freon (trichlorotrifluoroethane) as a solvent.
- 7 mm center conductor recession with collet removed: 0.0 to 0.003 inch.

Description

The 11857D cable set consists of two 7 mm 50 ohm cables, specified from 300 kHz to 6 GHz. This set provides shielded RF connections to extend the test ports of S-parameter test sets such as the 85046A. The cables can be ordered as either phase-matched or unmatched.

Model	Description	Number of Cables in Set	Replacement Cable Part Number
11857D Standard	Phase-matched 7 mm 50 ohm cables	2	Cables available as a matched pair only.
11857D Option B24	Unmatched 7 mm 50 ohm cables	2	11857-60006

Figure 1. Model 11857D Cables, Option B24



Operating Characteristics

	11857D Standard	11857D Option B24
Impedance	50 ohm (nominal)	50 ohm (nominal)
Connectors	7 mm	7 mm
Phase Match	≤ 4 degrees (at 2 GHz)	n/a
Return Loss	≥ 24 dB (300 kHz to 3 GHz)	≥ 24 dB (300 kHz to 3 GHz)

Physical Characteristics

	11857D Standard	11857D Option B24
Length	61 cm (24 inches)	61 cm (24 inches)
Weight (both cables):		
Net	0.91 kg (2 lbs)	0.91 kg (2 lbs)
Shipping	1.36 kg (2 lbs)	1.36 kg (2 lbs)