

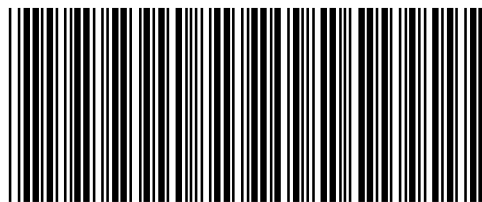
# User's and Service Guide

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



**Agilent Technologies**



11857-90014

Agilent Part Number 11857-90014 Supersedes: September 1999

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<b>Taiwan</b> <i>(tel)</i> 0800-047-866 <i>(fax)</i> (886) 2 25456723	<b>People's Republic of China</b> <i>(tel) (preferred):</i> 800-810-0189 <i>(tel) (alternate):</i> 10800-650-0021 <i>(fax)</i> 10800-650-0121	<b>India</b> <i>(tel)</i> 1-600-11-2929 <i>(fax)</i> 000-800-650-1101	

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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.

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## 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	Qty	Part Number
11857D Standard	Phase-matched 7 mm 50 ohm cables	2	8120-4779
11857D Option B24	Unmatched 7 mm 50 ohm cables	2	8120-8899

**Figure 1. Model 11857D Cables, Option B24**



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## Operating Characteristics

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

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## Physical Characteristics

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

