

User's and Service Guide

Keysight 11857D
7 mm Test Port
Return Cable Set

Notices

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Keysight Extended Frequency Range Upgrade Kit
Upgrade Kit Order Number: N5221AU-626
Installation Note

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- Go to <http://www.keysight.com>.
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Getting Assistance from Keysight

Installing this upgrade kit requires special skills and experience. If you think you may not be qualified to do the work, or need advice, contact Keysight.

Contacting Keysight

Assistance with test and measurements needs and information on finding a local Keysight office are available on the Web at:

<http://www.keysight.com/find/assist>

If you do not have access to the Internet, please contact your Keysight field engineer.

NOTE

In any correspondence or telephone conversation, refer to the Keysight product by its model number and full serial number. With this information, the Keysight representative can determine whether your product is still within its warranty period.

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

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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

Description

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)
Insertion Loss	< 0.5 dB @ 2 GHz < 0.9 dB @ 6 GHz	< 0.5 dB @ 2 GHz < 0.9 dB @ 6 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)

This information is subject to change without notice.

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