

User's and Service Guide

HP 11857D

7 mm Test Port Return Cable Set



HP Part Number 11857-90014 Supersedes: March 1986

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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 HP 11857D cable set consists of two 7 mm 50Ω cables, specified from 300 kHz to 3 GHz. This set provides shielded RF connections to extend the test ports of S-parameter test sets such as the HP 85046A. The cables can be ordered as either phase-matched or unmatched.

Model	Description	Qty	HP Part Number
HP 11857D Standard	Phase-matched 7 mm 50Ω cables	2	8120-4779
HP 11857D Option B24	Unmatched 7 mm 50Ω cables	2	8120-8899

Figure 1. Model HP 11857D Cables, Option B24



Operating Characteristics

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

Physical Characteristics

	HP 11857D Standard	HP 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)

Warranty

This Hewlett-Packard instrument product is warranted against defects in material and workmanship for a period of one year from date of delivery. During the warranty period, Hewlett-Packard Company will, at its option, either repair or replace products which prove to be defective.

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