

# **User's and Service Guide**

## **Agilent Technologies 11857B 75 Ohm Type-N Test Port Return Cable Set**



**Agilent Technologies**

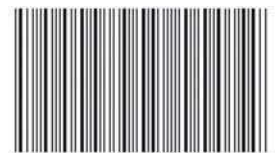
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11857-90016

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# User's and Service Guide

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**HP 11857B**

**75Ω Type-N Test Port Return Cable Set**



HP Part Number 11857-90016 Supersedes: September 1988

Printed in USA September 1999

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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.
- Type-N(f) center conductor protrusion: 0.207 inch maximum.
- Type-N(m) center conductor shoulder or dielectric recession: 0.208 inch minimum.

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## Description

The HP 11857B RF cable set consists of two type-N 75Ω cables, specified from 300 kHz to 2 GHz. This set provides shielded RF connections to extend the test ports of S-parameter test sets such as the HP 85046B. The cables can be ordered as either phase-matched or unmatched.

Model	Description	Qty	HP Part Number
HP 11857B Standard	Phase matched type-N 75Ω cables male-male connectors	1	8120-2408
	male-female connectors	1	8120-2409
HP 11857B Option B24	Unmatched type-N 75Ω cables male-male connectors	1	8120-8898
	male-female connectors	1	8121-0002

**Figure 1. Model HP 11857B Cables, Option B24**





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## Operating Characteristics

	HP 11857B Standard	HP 11857B Option B24
<b>Impedance</b>	75Ω (nominal)	75Ω (nominal)
<b>Connectors</b>	Type-N, male-male Type-N, male-female	Type-N, male-male Type-N, male-female
<b>Phase Match</b>	≤ 4° (at 2 GHz)	n/a
<b>Return Loss</b>	≥ 24 dB (300 kHz to 2 GHz)	≥ 24 dB (300 kHz to 2 GHz)

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**CAUTION** Mating a 75Ω(f) connector with a 50Ω(m) connector will *destroy* the 75Ω(f) connector.

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## Physical Characteristics

	HP 11857B Standard	HP 11857B Option B24
<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)

