

User's and Service Guide

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



Agilent Technologies

Manufacturing Part Number: 11857-90016

Printed in USA

Print Date: September 1999

Supersedes September 1988

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11857-90016

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HP 11857B

75 Ω 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.

Description

The HP 11857B RF cable set consists of two type-N 75 Ω 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 75 Ω cables	1	8120-2408
	male-male connectors	1	8120-2409
HP 11857B Option B24	Unmatched type-N 75 Ω cables	1	8120-8898
	male-male connectors	1	8121-0002

Figure 1. Model HP 11857B Cables, Option B24



Operating Characteristics

	HP 11857B Standard	HP 11857B Option B24
Impedance	75 Ω (nominal)	75 Ω (nominal)
Connectors	Type-N, male-male Type-N, male-female	Type-N, male-male Type-N, male-female
Phase Match	$\leq 4^\circ$ (at 2 GHz)	n/a
Return Loss	≥ 24 dB (300 kHz to 2 GHz)	≥ 24 dB (300 kHz to 2 GHz)

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

Physical Characteristics

	HP 11857B Standard	HP 11857B 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)

