

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) |

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