

User's Guide

11857F 75 Ω Type-F Test Port Cable Set



Agilent Technologies

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Country	Phone Number	Fax Number
Singapore	1-800-375-8100	(65) 836-0252
Malaysia	1-800-828-848	1-800-801664
Philippines	(632) 8426802 1-800-16510170 (PLDT Subscriber Only)	(632) 8426809 1-800-16510288 (PLDT Subscriber Only)
Thailand	(088) 226-008 (outside Bangkok) (662) 661-3999 (within Bangkok)	(66) 1-661-3714
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Taiwan	0800-047-866	(886) 2 25456723
People's Republic of China	800-810-0189 (preferred) 10800-650-0021	10800-650-0121
India	1-600-11-2929	000-800-650-1101

General Information

To obtain optimum performance from this cable set, observe these simple precautions:

- Flex and straighten the cables as little and as 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 nonlint swab, apply only isopropyl alcohol as a solvent.
- Type-N male connector center conductor protrusion: 0.207 inch maximum.
- Type-N female connector center conductor shoulder: 0.207 inch minimum.

Description

The standard 11857F 75Ω type-F test port cable set consists of two RF cables. See figure 1-1. Individual cables may be ordered. See table 1-2 for information and model numbers

Figure 1-1. 11857F Cable Set

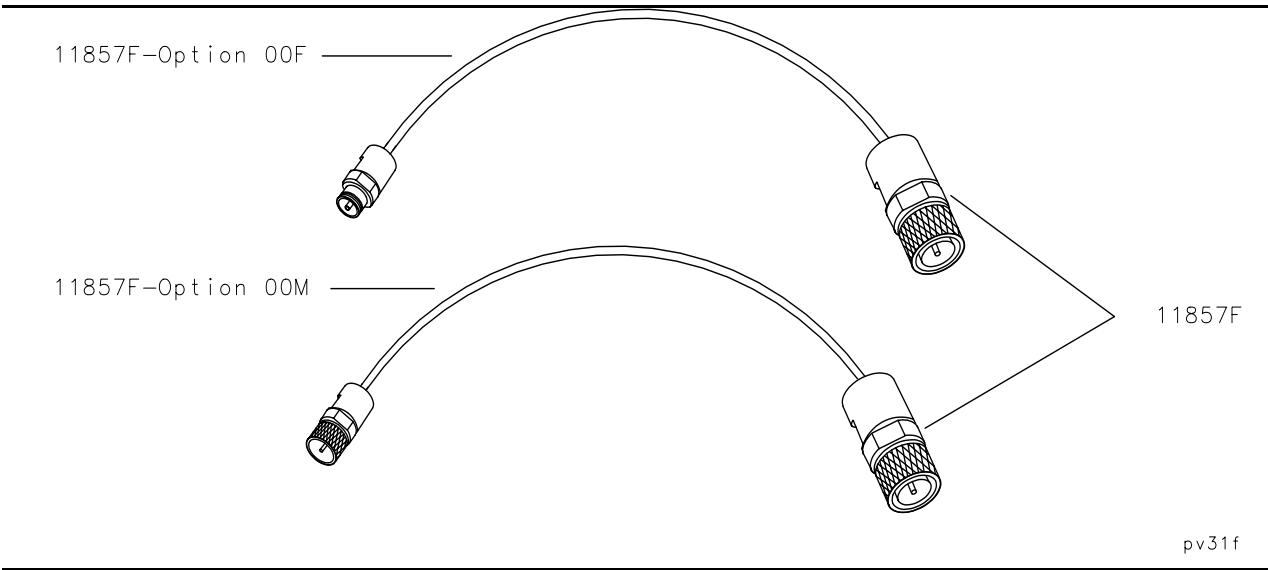


Table 1-2

Model Number	Quantity	Description
11857F	2 cables	75Ω type-N male and type-F female. 75Ω type-N male and type-F male.
11857F - Option 00F	1 cable	75Ω type-N male and type-F female.
11857F - Option 00M	1 cable	75Ω type-N male and type-F male.

NOTE When ordering cables it is important to identify the proper cable(s). Please refer to the correct model number, 11857F- Option 00F, 11857F- Option 00M or 11857F.

Operating Characteristics

Impedance	$75\Omega \pm 2\Omega$
Connectors	75 Ω type-N male and type-F female (Option 00F) 75 Ω type-N male and type-F male (Option 00M)
Insertion loss	0.45 dB at 3 GHz (per cable)
Transmission Stability	Phase Stability: $0.5^\circ + (0.83 \times \times \times^\circ * F)^1$ Magnitude Stability: ± 0.025 dB maximum Return Loss Stability: -45 dB
	1. where F is frequency in GHz
Return Loss	26 dB (to ≤ 1 GHz) 24 dB (>1 GHz to 3 GHz)

Physical Characteristics

Length	61 cm (24 ± 0.25 inches)	
Weight (approximate):	Net	Shipping
11857F	0.66 lbs	2.0 lbs
11857F-Option 00F	0.33 lbs	1.6 lbs
11857F-Option 00M	0.33 lbs	1.6 lbs

CAUTION Mating a 50 Ω male connector with a 75 Ω female connector will **DESTROY** the 75 Ω female connector.