



# **Agilent Technologies 85022A System Cable Kit**

## **Instruction Manual**

REPRODUCTION AND DISTRIBUTION OF  
THIS TECHNICAL MANUAL IS AUTHORIZED  
FOR GOVERNMENT PURPOSES.



**AgilentTechnologies**



---

# Instruction Manual

This Instruction Manual provides instructions on the use of the Agilent Technologies Model 85022A System Cable Kit with the Agilent Technologies Model 8757D-E02 Scalar Network Analyzer being delivered under U.S. Navy Contract Number N00104-07-D-D014.

Manual Part Number 85022-90005

November 2007

REPRODUCTION AND DISTRIBUTION OF THIS  
TECHNICAL MANUAL IS AUTHORIZED FOR  
GOVERNMENT PURPOSES.

© Copyright Agilent Technologies 2007  
All Rights Reserved

AGILENT TECHNOLOGIES INC  
DIVISION TMO CUSTOMER BUSINESS CENTER  
9780 S MERIDIAN BLVD  
ENGLEWOOD CO 80112 – 5910

---

## Agilent Technologies 85022A System Cable Kit



---

## Documentation Warranty

THE MATERIAL CONTAINED IN THIS DOCUMENT IS PROVIDED "AS IS," AND IS SUBJECT TO BEING CHANGED, WITHOUT NOTICE, IN FUTURE EDITIONS. FURTHER, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, AGILENT DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED WITH REGARD TO THIS MANUAL AND ANY INFORMATION CONTAINED HEREIN, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. AGILENT SHALL NOT BE LIABLE FOR ERRORS OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE FURNISHING, USE, OR PERFORMANCE OF THIS DOCUMENT OR ANY INFORMATION CONTAINED HEREIN. SHOULD AGILENT AND THE USER HAVE A SEPARATE WRITTEN AGREEMENT WITH WARRANTY TERMS COVERING THE MATERIAL IN THIS DOCUMENT THAT CONFLICT WITH THESE TERMS, THE WARRANTY TERMS IN THE SEPARATE AGREEMENT WILL CONTROL.

---

## DFARS/Restricted Rights Notice

If software is for use in the performance of a U.S. Government prime contract or subcontract, Software is delivered and licensed as "Commercial computer software" as defined in DFAR 252.227-7014 (June 1995), or as a "commercial item" as defined in FAR 2.101(a) or as "Restricted computer software" as defined in FAR 52.227-19 (June 1987) or any equivalent agency regulation or contract clause. Use, duplication or disclosure of Software is subject to Agilent Technologies' standard commercial license terms, and non-DOD Departments and Agencies of the U.S. Government will receive no greater than Restricted Rights as defined in FAR 52.227-19(c)(1-2) (June 1987). U.S. Government users will receive no greater than Limited Rights as defined in FAR 52.227-14 (June 1987) or DFAR 252.227-7015 (b)(2) (November 1995), as applicable in any technical data.

---

## Printing Copies of Documentation from the Web

To print copies of documentation from the Web, download the PDF file from the Agilent web site:

- Go to <http://www.agilent.com>.
  - Enter the document's part number (located on the title page) in the **Quick Search** box.
  - Click GO.
  - Click on the hyperlink for the document.
  - Click the printer icon located in the tool bar.
-

---

## Contacting Agilent

Assistance with test and measurement needs and information on finding a local Agilent office are available on the Web at:

<http://www.agilent.com/find/assist>

If you do not have access to the Internet, please contact your Agilent field engineer.

---

NOTE	In any correspondence or telephone conversation, refer to the Agilent product by its model number and full serial number. With this information, the Agilent representative can determine whether your product is still within its warranty period.
------	---

---

---

## Description

The Agilent Model 85022A System Cable Kit is a set of three GP-IB cables and four BNC cables that provide the necessary interconnections in a GPIB controlled network analyzer system.

The three identical Model 10833A GP-IB cables feature an improved shielding design to help improve RFI levels in systems, exhibiting significantly lower radiated emissions than previous GP-IB cables. The connector block at both ends of each GP-IB cable has a plug on one side and a matching receptacle on the other, so that several cables may be conveniently connected in parallel, thus simplifying system interconnection. ISO metric-threaded lock screws provide for secure mounting of each connector block to a GP-IB instrument or to another cable connector block.

Four BNC 50-ohm coaxial cables are supplied, terminated on both ends with BNC (m) connectors. These include three Model 11170B, 61 cm (24 in.) cables and one Model 11170C, 122 cm (48 in.) cable. The longer cable is used to supply a modulation drive signal from the network analyzer to a synthesized sweeper.

---

---

## Characteristics

The 85022A System Cable Kit consists of seven cables with the following characteristics:

Three GP-IB Cables	One BNC Cable	Three BNC Cables
<b>Agilent Part No. 85022-20001<sup>a</sup></b>	<b>Agilent Part No. 8120-1840<sup>a</sup></b>	<b>Agilent Part No. 8120-1839<sup>a</sup></b>
<b>Agilent Model No. 10833A</b>	<b>Agilent Model No. 11170C</b>	<b>Agilent Model No. 11170B</b>
Length: 1 m. (3.3 ft.)	Length: 122 cm. (48 in.)	Length: 61 cm. (24 in.)
—	Impedance: 50 ohms	Impedance: 50 ohms
—	Connectors: BNC (m)	Connectors: BNC (m)

- a. Use this Agilent part number rather than the model number when re-ordering the GP-IB cables, to expedite faster replacement.

---

## Other Equipment Available

GP-IB and BNC cables are also available in various lengths as follows:

GP-IB			BNC	
Length	Part Number	Model Number	Length	Model Number
0.5 m. (1.6 ft.)	8120-3444 <sup>a</sup>	10833D	30 cm. (12 in.)	11170A
2 m. (6.6 ft.)	8120-3446 <sup>a</sup>	10833B		
4 m. (13.2 ft.)	8120-3447 <sup>a</sup>	10833C		

- a. Use this Agilent part number rather than the model number when re-ordering the GP-IB cables, to expedite faster replacement.

The Model 10834A adapter is a shielded GP-IB to GP-IB adapter. It provides additional clearance between the GP-IB cable and the rear panel of the instrument. This allows easier access to switches, cables, and other connectors that may be in close proximity to the GP-IB connector.

---



**85022-90005**

**Copyright Agilent Technologies, Inc.  
2007**

**Printed in Malaysia 11/2007**

**No. 85022-90005**



**Agilent Technologies**