# **B2900C / CL Series Precision Source / Measure Unit**

Cost-effective source / measurement solutions offer superior performance

## Introduction

The Keysight B2900C / CL Series Source/Measure Unit (SMU) series contains the following six models.

- B2901CL Precision Source / Measure Unit, 1 ch, 1pA resolution, 21 V, 1.5 A
- B2910CL Precision Source / Measure Unit, 1 ch, 10fA resolution, 210 V, 1.5 A
- B2901C Precision Source / Measure Unit, 1 ch, 100fA resolution, 210 V, 3A DC / 10.5 A pulse
- B2902C Precision Source / Measure Unit, 2 ch, 100fA resolution, 210 V, 3A DC / 10.5 A pulse
- B2911C Precision Source / Measure Unit, 1 ch, 10fA resolution, 210 V, 3A DC / 10.5 A pulse
- B2912C Precision Source / Measure Unit, 2 ch, 10fA resolution, 210 V, 3A DC / 10.5 A pulse

This configuration guide provides step-by-step instructions for configuring an SMU and its related accessories to meet specific test requirements. For detailed specifications, refer to the B2900C/CL SMU series datasheet.





## Step 1. Select the B2900C / CL Series Model

There are two key parameters you need to select up-front: the number of measurement channels (one or two) and the SMU performance level. The B2900C / CL series comes in variants:

- Value (B2901CL / B2910CL)
- Standard (B2901C / B2902C)
- High-performance (B2911C / B2912C)

**Note**: SMUs cannot be upgraded to add more channels or switch to a different version after purchase.

| Product  | Number of | Max output |        | Min source | Min measure | Min timing | After the second          |
|----------|-----------|------------|--------|------------|-------------|------------|---------------------------|
| number   | channels  | DC         | Pulse  | resolution | resolution  | interval   | Viewing mode              |
| B2901CL  | 1         | 21 V       | N/A    | 10 pA      | 1 pA        | 200 µs     | 0'                        |
| B290 ICL | '         | 1.5 A      | IN/A   | 1 µV       | 100 nV      | 200 μs     | Single, graph             |
| B2910CL  | 1         | 210 V      | N/A    | 100 fA     | 10 fA       | E0         | Cinala aranh              |
| BZ910CL  | '         | 1.5 A      | IN/A   | 1 µV       | 100 nV      | 50 µs      | Single, graph             |
| B2901C   | 1         | 210 V      | 200 V  | 1 pA       | 100 fA      | 20 µs      | Single, graph             |
| B2901C   | '         | 3.03 A     | 10.5 A | 1 μV       | 100 nV      |            |                           |
| B2902C   | 2         | 210 V      | 200 V  | 1 pA       | 100 fA      | 20 µs      | Single, dual, graph       |
| BZ9UZC   | 2         | 3.03 A     | 10.5 A | 1 μV       | 100 nV      |            |                           |
| B2911C   | 1         | 210 V      | 200 V  | 10 fA      | 10 fA       | 10         | Single, graph, roll       |
|          |           | 3.03 A     | 10.5 A | 100 nV     | 100 nV      | — 10 μs    |                           |
| B2912C   | 1         | 210 V      | 200 V  | 10 fA      | 10 fA       | 10 µs      | Cinale duel areah rell    |
| DZ31ZU   | 2         | 3.03 A     | 10.5 A | 100 nV     | 100 nV      |            | Single, dual, graph, roll |

Each B2900C / CL series SMU supplies the following standard items:

| Description                                    | Qty  | Additional information                                                                                       |
|------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------|
| Quick Reference                                | 1 ea | Printed reference for quick startup (English)                                                                |
| Certificate of Calibration (without test data) | 1 ea | Certificate of calibration (without actual test data). If you need the test data, please specify option UK6. |
| USB cable                                      | 1 ea | USB cable (1.8 m). The orderable parts number is 8121-1696.                                                  |

## **Step 2. Select Optional Accessories**

## Step 2-1. Add rack mount kit (optional)

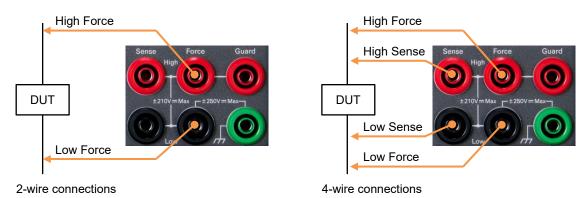
| Description    | Product number | Additional information                                                                                                      |
|----------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| Rack Mount Kit | 1CM124A        | It includes a rack mount flange and front handle kit. It fits a standard 19-inch rack and occupies two units of rack space. |



## Step 2-2. Determine if you need to make 4-wire or guarded measurements

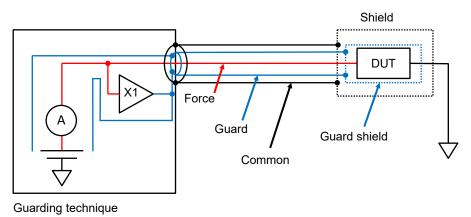
The B2900C/CL SMUs support both 2-wire and 4-wire measurement. The default connection scheme is the more straightforward 2-wire configuration, which uses only the force terminals. In 2-wire mode, the sense terminals are left open.

If you are measuring very small resistances or applying very large currents, use the 4-wire measurement method (also known as the Kelvin method). This technique employs both the force and sense terminals. By measuring the sense terminals, where no current flows, it effectively eliminates the effects of cable resistance.



Low current measurements (< 1 nA) require guarding to prevent leakage through the measurement cable. The schematic shown below provides a simplified overview of the guarding technique. Guarded measurements require the use of triaxial cables. A follower (x1) buffer amplifier keeps the guard conductor at the same potential as the center conductor. Since there is no voltage difference, no current can flow from the center conductor to the guard.

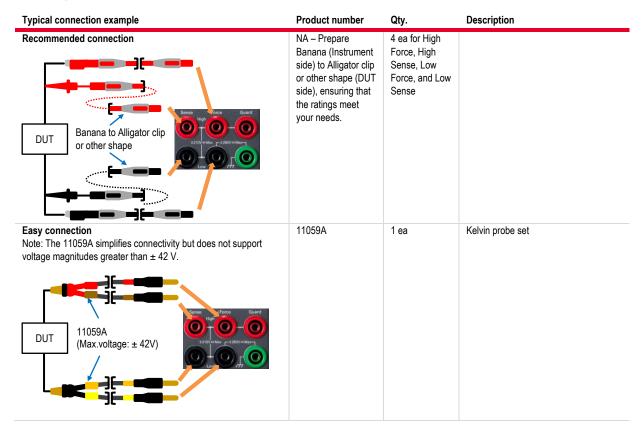
Note: In this example, even the test fixture has a guarded shield to prevent leakage at the test fixture.



## 1. Unguarded 2-Wire connection scheme

| Typical connection example                                                                                                | Product number                                                                                                                | Qty.                                    | Description      |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------|
| Banana to Alligator clip or other shape                                                                                   | NA – Prepare Banana (Instrument side) to Alligator clip or other shape (DUT side), ensuring that the ratings meet your needs. | 2 ea for High<br>Force and Low<br>Force |                  |
| Easy connection Note: The 11059A simplifies connectivity but does not support voltage magnitudes greater than $\pm$ 42 V. | 11059A                                                                                                                        | 1 ea                                    | Kelvin probe set |
| DUT 11059A (Max.voltage: ± 42V)                                                                                           |                                                                                                                               |                                         |                  |

## 2. Unguarded 4-Wire connection scheme





## 3. Guarded 2-Wire connection scheme

| Typical connection example                                                                            | Product number | Qty. | Description                                                  |
|-------------------------------------------------------------------------------------------------------|----------------|------|--------------------------------------------------------------|
| Recommended connection                                                                                | 16494A-001     | 2 ea | Low leakage Triaxial cable (1.5 m)                           |
| Note: The N1295A does not support voltages greater than ± 42 V.                                       | N1297A         | 1 ea | Banana - Triaxial Adapter for 2-wire (non-Kelvin) connection |
| N1295A 16494A-001 16494A-001                                                                          | N1295A         | 1 ea | Device/component test fixture                                |
| Recommended connection                                                                                | 16494A-001     | 2 ea | Low leakage Triaxial cable (1.5 m)                           |
| Note: The 16442B supports voltages up to 200 V.                                                       | N1297A         | 1 ea | Banana - Triaxial Adapter for 2-wire (non-Kelvin) connection |
| 16442B  SMU  SMU  Sense o Force o (Force)  Guardo Guardo  Guardo Guardo  SMU1  SMU2  16494A-001  SMU3 | 16442B         | 1 ea | Test Fixture for general use                                 |

## 4. Guarded 4-Wire connection scheme

| Typical connection example | Product number                                  | <b>Qty.</b> 3 ea 1 ea | Description  Low leakage Triaxial cable (1.5 m)  Banana - Triaxial Adapter for 4-wire (Kelvin) connection |                              |
|----------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------|------------------------------|
| Recommended connection     |                                                 |                       |                                                                                                           |                              |
| Guardo Guardo SN           | N1297A<br>194A-001<br>MU1<br>MU2<br>116494A-001 | 16442B                | 1 ea                                                                                                      | Test Fixture for general use |

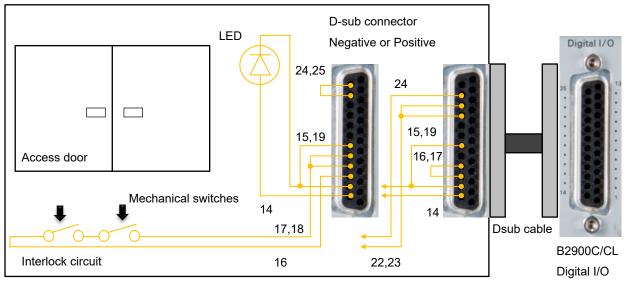


## Step 2-3. Consider interlock circuit (optional)

The SMUs have a safety interlock to prevent accidental exposure to dangerously high voltages. Voltages greater than ±42 V cannot be sourced unless the interlock circuit is closed. This function is accomplished through the use of pins 16 and 24 on the rear Digital I/O output. Typically, these pins are routed to a shielding box or test fixture that must be closed to complete the interlock circuit.

If you are using the 16442B test fixture, you can connect to the interlock circuit using the N1294A-011 or 012 interlock cables. If you are not using the 16442B, you should install an interlock circuit, as shown in the figure below. For more detailed information, please refer to "Installing the Interlock Circuit" in the Keysight B2900C / CL Series User's Guide.

#### Shielding box



| Description             | Product number | Additional information                                                    |
|-------------------------|----------------|---------------------------------------------------------------------------|
| Interlock cable (1.5 m) | N1294A-011     | Interlock cable for 16442A/B test fixture (GPIO Dsub25 to 6pin mini plug) |
| Interlock cable (3.0 m) | N1294A-012     |                                                                           |



# Step 2-4. Determine if you need to use the B2900C / CL series with multiple software control options (optional)

The series has multiple software control options, allowing you to select the solution that best fits your application needs.

| Software control option    | Available interface | Description                                                                                      |
|----------------------------|---------------------|--------------------------------------------------------------------------------------------------|
| Pathwave BenchVue          | GPIB, USB, LAN      | Source constant voltage or current and control other Keysight instruments                        |
| Graphical web interface    | LAN                 | Use your web browser to make basic measurements                                                  |
| PathWave IV curve software | GPIB, USB, LAN      | A common software solution for the entire B2900 family                                           |
| EasyEXPERT group+          | GPIB                | Powerful software for detailed characterization and analysis of devices, circuits, and materials |

- 82357B GPIB-USB Interface is necessary for software control through the GPIB interface.
- A 1.8-meter USB cable with the B2900C / CL series is provided for software control via a USB interface.
- A LAN cable is necessary for software control through the LAN interface.
- The EasyEXPERT group+ software supports multiple unit control with synchronization. Please see the following page for more details.

## Step 2-5. Determine if you need to use the B2900C / CL SMUs with EasyEXPERT group+ software

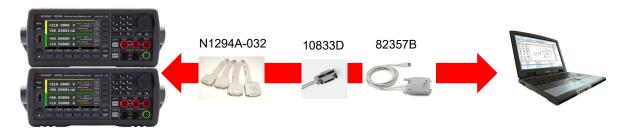
The EasyEXPERT group+ software can control up to 4 units of the B2900C/CL SMUs simultaneously. When using multiple units of the B2900C / CL SMUs with the EasyEXPERT group+ software, you must connect trigger lines to synchronize one unit with the others. A USB or LAN connection is also available instead of GPIB.

## 1. Use a single unit of the B2900C/CL SMU



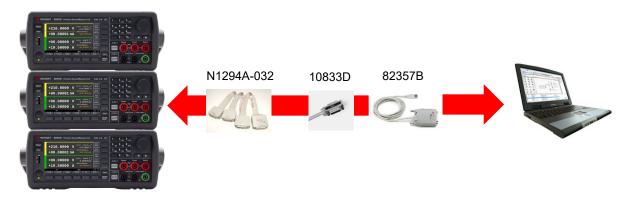


## 2. Use two units of the B2900C/CL SMU



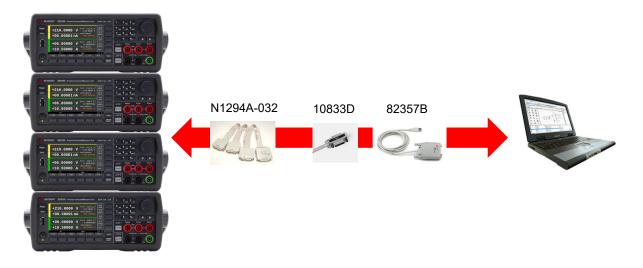
| Product number | Qty. | Description                                         |
|----------------|------|-----------------------------------------------------|
| B2900C/CL      | 2 ea | Precision source / Measure unit                     |
| 82357B         | 1 ea | USB / GPIB interface                                |
| N1294A-032     | 1 ea | Digital I/O trigger cable for multiple unit control |
| 10833D         | 1 ea | GPIB cable (0.5 m)                                  |

## 3. Use three units of the B2900C / CL SMU



| Product number | Qty. | Description                                         |
|----------------|------|-----------------------------------------------------|
| B2900C/CL      | 3 ea | Precision source / Measure unit                     |
| 82357B         | 1 ea | USB / GPIB interface                                |
| N1294A-032     | 1 ea | Digital I/O trigger cable for multiple unit control |
| 10833D         | 2 ea | GPIB cable (0.5 m)                                  |

## 4. Use four units of the B2900C/CL SMU



| Product number | Qty. | Description                                         |  |
|----------------|------|-----------------------------------------------------|--|
| B2900C/CL      | 4 ea | Precision source / Measure unit                     |  |
| 82357B         | 1 ea | USB / GPIB interface                                |  |
| N1294A-032     | 1 ea | Digital I/O trigger cable for multiple unit control |  |
| 10833D         | 3 ea | GPIB cable (0.5 m)                                  |  |

The EasyEXPERT group+ software manuals (User's guide) are available for download from www.keysight.com/find/easyexpert.

## Step 2-6. Select additional accessories (optional)

The following optional accessories are available for specialized requirements.

| Low leakage Triaxial cable (3.0 m) 16494A-001 Low leakage Triaxial cable (0.0 m) 16494A-003 Low leakage Triaxial cable (0.0 m) 16494A-003 Low leakage Triaxial cable (0.0 m) 16494A-003 Low leakage Triaxial cable (0.0 m) 16494A-005 High current Triaxial cable (1.5m) 16493L-001 High current Triaxial cable (3.0 m) 16493L-002 Coax cable (1.5 m) 16493L-001 Coax cable (1.5 m) 16493L-001 Coax cable (1.5 m) 16493B-001 Coax cable (1.5 m) 16493B-001 Coax cable (1.5 m) 16493B-001 High current BNC Coax cable (1.5 m) 16493B-001 Triaxial(m) to BNC (m) adaptor N1254A-101 Triaxial(m) to BNC (m) adaptor N1254A-102 Triaxial(m) to BNC (m) adaptor N1254A-103 Triaxial(m) to BNC (m) adaptor N1254A-104 Triaxial(m) to BNC (m) adaptor N1254A-105 Triaxial(m) to BNC (m) adaptor N1254A-106 Triaxial(m) to BNC (m) adaptor N1254A-106 Triaxial(m) to BNC (m) adaptor N1254A-106 Triaxial(m) to Triaxial (m) to  | Description                                 | Product number | Additional information                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|-------------------------------------------------------------------|
| Low leakage Triaxial cable (0.4 m) 16494A-003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Low leakage Triaxial cable (1.5 m)          | 16494A-001     | 16494A triaxial cable supports up to 200 V and 1 A.               |
| Low leakage Triaxial cable (4.0 m) 16494A-004 Low leakage Triaxial cable (4.0 m) 16494A-005 High current Triaxial cable (1.5 m) 16493L-001 Coax cable (3.0 m) 16493B-001 High current RNC Coax cable (3.0 m) 16493L-001 High current BNC Coax cable (3.0 m) 16493B-002 High current BNC Coax cable (3.0 m) 16493L-002 Coaxial BNC cable (1.2 m) 10391A-100 Kelvin probe set 11059A Triaxial(m) to BNC (f) adaptor N1254A-101 Triaxial(f) to BNC (f) adaptor N1254A-102 Triaxial (f) to BNC (m) adaptor N1254A-104 Triaxial (f) to BNC (f) adaptor N1254A-104 Triaxial (f) to BNC (f) adaptor N1254A-105 Triaxial (m) to BNC (f) adaptor N1254A-106 Triaxial (m) to Cable (3.0 m) N1254A-107 Triaxial (m) to Triaxial (f) adaptor N1254A-106 Triaxial (m) to Triaxial (f) adaptor N1254A-107 Triaxial (m) to Triaxial (f) adaptor N1254A-106 Triaxial (m) to Triaxial (f) adaptor N1254A-107 Triaxial (m) to Triaxial (f) adaptor N1254A-107 Triaxial (m) to Triaxial (m | Low leakage Triaxial cable (3.0 m)          | 16494A-002     |                                                                   |
| Low leakage Triaxial cable (1.5 m) 16494A-005 High current Triaxial cable (3.0 m) 16493L-001 16493L occ acc able (1.5 m) 16493L-001 16493B-001 (20x cable (1.5 m) 16493B-001 16493B-002 (20x cable) (1.5 m) 16493B-001 16493B-002 (20x cable) (1.5 m) 16493B-002 (20x cable) (1.5 m) 16493U-001 16493U-002 (20x cable) (1.5 m) 16493U-001 16493U-002 (20x cable) (1.5 m) 10493U-002 (20x cable) (1.5 m) 10493G-001 (20x cable) (1.5 m) 10493G-002 (20x cable) (1.5 m) 10493G-002 (20x cable) (1.5 m) 10493G-002 (20x cable) (1.5 m) 10493G-001 (20x cable) (1.5 m) 10493G-002  | Low leakage Triaxial cable (0.8 m)          | 16494A-003     |                                                                   |
| Low leakage Triaxial cable (1.5 m) 16494A-005 High current Triaxial cable (3.0 m) 16493L-001 16493L occ acc able (1.5 m) 16493L-001 16493B-001 (20x cable (1.5 m) 16493B-001 16493B-002 (20x cable) (1.5 m) 16493B-001 16493B-002 (20x cable) (1.5 m) 16493B-002 (20x cable) (1.5 m) 16493U-001 16493U-002 (20x cable) (1.5 m) 16493U-001 16493U-002 (20x cable) (1.5 m) 10493U-002 (20x cable) (1.5 m) 10493G-001 (20x cable) (1.5 m) 10493G-002 (20x cable) (1.5 m) 10493G-002 (20x cable) (1.5 m) 10493G-002 (20x cable) (1.5 m) 10493G-001 (20x cable) (1.5 m) 10493G-002  | Low leakage Triaxial cable (0.4 m)          | 16494A-004     |                                                                   |
| High current Triaxial cable (3.0m) 16493L-001 16493L-002 16493B-001 16493B-001 16493B-001 16493B-001 16493B-001 16493B-001 16493B-002 16493B-001 16493B-001 16493B-002 16493B-001 16493B-002 16493B-001 16493B-002 16493B-002 16493B-002 16493B-002 16493B-002 16493B-002 16493B-003 16493B-002 16493B-003 16493B-002 16493B-003 16493B-002 16493B-003 16493B-002 16493B-003 1649B-003 1649B- |                                             | 16494A-005     |                                                                   |
| High current Triaxial cable (3.0 m) 164931-002 164938-001 164938-001 164938-001 164938-001 164938-001 164938-001 164938-001 164938-001 164938-001 164938-001 164938-001 164938-001 164938-001 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-0 |                                             | 16493L-001     | 16493L triaxial cable supports a current higher than 1 A.         |
| Coax cable (1.5 m) 164938-001 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938-002 164938 Coax cable supports up to 40 V and 20 A pulse.  High current BNC Coax cable (3.0 m) 164938-002 164938 Coax cable supports up to 40 V and 20 A pulse.  High current BNC Coax cable (3.0 m) 164938-002 164938 Coax cable supports up to 40 V and 20 A pulse.  High current BNC Coax cable (3.0 m) 164938-002 17 inaxial (m) to BNC (f) adaptor N1254A-101 17 inaxial (f) to BNC (f) adaptor N1254A-102 17 inaxial (f) to BNC (m) adaptor N1254A-104 17 inaxial (f) to BNC (m) adaptor N1254A-106 17 inaxial (m) to BNC (f) adaptor N1254A-106 17 inaxial (m) to BNC (f) adaptor N1254A-107 17 inaxial (m) to BNC (f) adaptor N1254A-108 17 inaxial (f) adaptor N1254A-108 17 |                                             | 16493L-002     |                                                                   |
| Caax cable (3.0 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | . , ,                                       | 16493B-001     | 16493B coax cable supports up to 40 V and 200 mA.                 |
| High current BNC Coax cable (1.5 m) 16493U-002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             | 16493B-002     |                                                                   |
| High current BNC Coax cable (3.0 m) 16493U-002 Coaxid BNC cable (1.2 m) U2921A-100 Kelvin probe set 11059A Triaxial(m) to BNC (f) adaptor N1254A-101 Triaxial(f) to BNC (m) adaptor N1254A-102 Triaxial (m) to BNC (f) adaptor N1254A-103 Triaxial (f) to BNC (m) adaptor N1254A-104 Triaxial (f) to BNC (m) adaptor N1254A-106 Triaxial (m) to BNC (f) adaptor N1254A-106 Triaxial (m) to BNC (f) adaptor N1254A-106 Triaxial (m) to BNC (f) adaptor N1254A-107 Triaxial (m) to Triaxial (f) adaptor N1254A-106 Triaxial (m) to Triaxial (f) adaptor N1254A-107 Triaxial tee adapter (m-f-f) 1250-2405 Triaxial tee adapter (f-m-f) 1250-2405 Triaxial to Cable (1.5 m) 16493G-001 Triaxial (T) Cable (1.5 m) 16493G-002 Digital I/O T-cable N1254A-011 Interlock cable (1.5 m) N1294A-011 Interlock cable (1.5 m) N1294A-011 Interlock cable (3.0 m) N1294A-011 Interlock cable (3.0 m) N1294A-012 GPIO - BNC trigger adapter N1294A-031 Digital I/O trigger cable for multiple unit control USB A-BI-O cable (2.0 m) 8121-1696 USB A-BI-O cable (2.0 m) 8121-1696 USB A-BI-O cable (2.0 m) N1294 Sequired to use EasyEXPERT group+ software with multiple units control USB A-BI-O cable (2.0 m) N1294 Sequired to use EasyEXPERT group+ software with multiple units control USB A-BI-O cable (2.0 m) N1294 Sequired to use EasyEXPERT group+ software with multiple units control USB A-BI-O cable (2.0 m) N1294 Sequired to use EasyEXPERT group+ software with multiple units control use factor for the factor   | High current BNC Coax cable (1.5 m)         | 16493U-001     | 16493U coax cable supports up to 40 V and 20 A pulse.             |
| Ceaxial BNC cable (1.2 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             | 16493U-002     |                                                                   |
| Triaxial(m) to BNC (f) adaptor         N1254A-102           Triaxial(m) to BNC (f) adaptor         N1254A-103           Triaxial (f) to BNC (m) adaptor         N1254A-104           Triaxial (f) to BNC (m) adaptor         N1254A-105           Triaxial (m) to BNC (f) adaptor         N1254A-106           Triaxial (m) to BNC (f) adaptor         N1254A-107           Coax tee adapter (m-f-f)         1250-2405           Triaxial tee adapter (f-m-f)         1250-1551           Digital I/O cable (1.5 m)         16493G-001           Digital I/O cable (3.0 m)         16493G-001           Digital I/O T-cable         N1254A-011           Interlock cable (3.0 m)         N1294A-011           Interlock cable (3.0 m)         N1294A-011           Interlock cable (3.0 m)         N1294A-013           Digital I/O trigger cable for multiple unit control         N1294A-032           USB A-BI-O cable (2.0 m)         8121-1696         USB A-B I-O cable           USB A-BI-O cable (2.0 m)         N1297A         N1297A           Mon-Kelvin) connection         N1297A         N1297A           Banana - Triaxial adapter for 4-wire (Kelvin) connection         N1297A         N1297A           Pevice/component test fixture         N1295A         N1297A           Test fixture for E5270 and gen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ` ,                                         | U2921A-100     |                                                                   |
| Triaxial (m) to BNC (m) adaptor N1254A-102  Triaxial (m) to BNC (m) adaptor N1254A-104  Triaxial (f) to BNC (m) adaptor N1254A-105  Triaxial (f) to BNC (m) adaptor N1254A-105  Triaxial (m) to BNC (m) adaptor N1254A-106  Triaxial (m) to Triaxial (m) to Triaxial (f) adaptor N1254A-107  Triaxial (m) to Triaxial (m) to Triaxial (f) adaptor N1254A-107  Triaxial tee adapter (m-f-f) 1250-2405  Triaxial tee adapter (f-m-f) 1250-1551  Digital I/O cable (1.5 m) 16493G-001  Digital I/O T-cable N1254A-100  Interlock cable (3.0 m) N1294A-011  Interlock cable (3.0 m) N1294A-011  Interlock cable (3.0 m) N1294A-011  Interlock cable (3.0 m) N1294A-012  GPIO - BNC trigger cable for multiple unit control  USB A-BI-O cable (2.0 m) 8121-1696  USB / GPIB interface 82357B  Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture N1295A  Test fixture for E5270 and general use 16442B  GPIB cable (1.0 m) 10833A  GPIB cable (2.0 m) 10833B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Kelvin probe set                            | 11059A         |                                                                   |
| Triaxial (m) to BNC (m) adaptor N1254A-102  Triaxial (m) to BNC (m) adaptor N1254A-104  Triaxial (f) to BNC (m) adaptor N1254A-105  Triaxial (f) to BNC (m) adaptor N1254A-105  Triaxial (m) to BNC (m) adaptor N1254A-106  Triaxial (m) to Triaxial (m) to Triaxial (f) adaptor N1254A-107  Triaxial (m) to Triaxial (m) to Triaxial (f) adaptor N1254A-107  Triaxial tee adapter (m-f-f) 1250-2405  Triaxial tee adapter (f-m-f) 1250-1551  Digital I/O cable (1.5 m) 16493G-001  Digital I/O T-cable N1254A-100  Interlock cable (3.0 m) N1294A-011  Interlock cable (3.0 m) N1294A-011  Interlock cable (3.0 m) N1294A-011  Interlock cable (3.0 m) N1294A-012  GPIO - BNC trigger cable for multiple unit control  USB A-BI-O cable (2.0 m) 8121-1696  USB / GPIB interface 82357B  Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture N1295A  Test fixture for E5270 and general use 16442B  GPIB cable (1.0 m) 10833A  GPIB cable (2.0 m) 10833B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Triaxial(m) to BNC (f) adaptor              | N1254A-101     |                                                                   |
| Triaxial (f) to BNC (m) adaptor N1254A-104  Triaxial (m) to BNC (f) adaptor N1254A-106  Triaxial (m) to Triaxial (f) adaptor N1254A-107  Triaxial tee adapter (m-f-f) 1250-2405  Triaxial tee adapter (f-m-f) 1250-1551  Digital I/O cable (1.5 m) 16493G-002  Digital I/O cable (3.0 m) 16493G-002  Digital I/O T-cable N1253A-100 To synchronize triggering between members of the B2900C/CL Series N1294A-011  Interlock cable (1.5 m) N1294A-011 Interlock cable (1.5 m) N1294A-011  Digital I/O trigger cable for multiple unit control  USB A-BI-O cable (2.0 m) 8121-1696  USB A-BI-O cable (2.0 m) 8121-1696  Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture N1295A  Test fixture for E5270 and general use 16442B  GPIB cable (2.0 m) 10833A  GPIB cable (2.0 m) 10833B  GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | . , , , ,                                   | N1254A-102     |                                                                   |
| Triaxial (f) to BNC (m) adaptor         N1254A-105           Triaxial (m) to BNC (f) adaptor         N1254A-106           Triaxial (m) to Triaxial (f) adaptor         N1254A-107           Coax tee adapter (m-f-f)         1250-2405           Triaxial tee adapter (f-m-f)         1250-1551           Digital I/O cable (1.5 m)         16493G-002           Digital I/O cable (3.0 m)         16493G-002           Digital I/O T-cable         N1254A-100           Interlock cable (1.5 m)         N1294A-010           Interlock cable (3.0 m)         N1294A-011           GPIO - BNC trigger adapter         N1294A-012           GPIO - BNC trigger adapter         N1294A-031           Digital I/O trigger cable for multiple unit control         N1294A-032           USB A-BI-O cable (2.0 m)         8121-1696           USB A-BI-O cable (2.0 m)         8121-1696           USB A-BI interface         82357B           Banana - Triaxial adapter for 2-wire (non-Kelvin) connection         N1297A           Banana - Triaxial adapter for 4-wire (Kelvin) connection         N1297B           Ckelvin) connection         N1297B           GPIB cable (1.0 m)         10833A           GPIB cable (2.0 m)         10833A           GPIB cable (4.0 m)         10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Triaxial(m) to BNC (f) adaptor              | N1254A-103     |                                                                   |
| Triaxial (m) to BNC (f) adaptor  N1254A-107  Triaxial (m) to Triaxial (f) adaptor  N1254A-107  Triaxial (m) to Triaxial (f) adaptor  N1254A-107  Triaxial (m) to Triaxial (f) adaptor  N1254A-107  Triaxial tee adapter (m-f-f)  1250-2405  Triaxial tee adapter (f-m-f)  1250-1551  Digital I/O cable (1.5 m)  16493G-001  To synchronize triggering between members of the B2900C/CL Series  Digital I/O T-cable  N1253A-100  Interlock cable (1.5 m)  N1294A-011  Interlock cable (1.5 m)  N1294A-012  GPIO - BNC trigger adapter  N1294A-031  N1294A-031  N1294A-031  N1294A-032  Required to use EasyEXPERT group+ software with multiple units control  USB A-BI-O cable (2.0 m)  8121-1696  USB A-B I-O cable  USB A-B I-O cable  USB A-B I-O cable  WSB A-B I-O cable  N1297A  (non-Kelvin) connection  Device/component test fixture  N1297B  (Kelvin) connection  Device/component test fixture  N1295A  Test fixture for E5270 and general use  GPIB cable (1.0 m)  GPIB cable (2.0 m)  10833A  GPIB cable (2.0 m)  10833B  GPIB cable (4.0 m)  10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Triaxial (f) to BNC (m) adaptor             | N1254A-104     |                                                                   |
| Triaxial (m) to Triaxial (f) adaptor  N1254A-107  Coax tee adapter (m-f-f) 1250-2405  Triaxial tee adapter (f-m-f) 1250-1551  Digital I/O cable (1.5 m) 16493G-001 To synchronize triggering between members of the B2900C/CL Series  Digital I/O T-cable N1253A-100 N1294A-011 Interlock cable (1.5 m) N1294A-011 Interlock cable (3.0 m) N1294A-012 GPIO - BNC trigger adapter N1294A-031 Digital I/O trigger cable for multiple unit control USB A-BI-O cable (2.0 m) 8121-1696 USB A-B I-O cable (2.0 m) 8121-1696 USB A-B I-O cable W1297A (non-Kelvin) connection Pevice/component test fixture N1297B (Kelvin) connection Device/component test fixture N1295A Test fixture for E5270 and general use GPIB cable (1.0 m) GPIB cable (2.0 m) 10833B GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Triaxial (f) to BNC (m) adaptor             | N1254A-105     |                                                                   |
| Coax tee adapter (m-f-f) 1250-2405 Triaxial tee adapter (f-m-f) 1250-1551  Digital I/O cable (1.5 m) 16493G-001 Digital I/O cable (3.0 m) 16493G-002 Digital I/O T-cable N1253A-100 Interlock cable (1.5 m) N1294A-011 Interlock cable (1.5 m) N1294A-011 Digital I/O Trigger adapter N1294A-012 Digital I/O trigger adapter N1294A-031 Digital I/O trigger cable for multiple unit control USB A-BI-O cable (2.0 m) 8121-1696 USB A-BI-O cable (2.0 m) 8129TA Evilon Evi | Triaxial (m) to BNC (f) adaptor             | N1254A-106     |                                                                   |
| Triaxial tee adapter (f-m-f)   1250-1551   16493G-001   To synchronize triggering between members of the B2900C/CL Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Triaxial (m) to Triaxial (f) adaptor        | N1254A-107     | m f                                                               |
| Triaxial tee adapter (f-m-f)   1250-1551   16493G-001   To synchronize triggering between members of the B2900C/CL Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Coax tee adapter (m-f-f)                    | 1250-2405      |                                                                   |
| Digital I/O cable (3.0 m) 16493G-002 Digital I/O T-cable N1253A-100 To synchronize triggering between members of the B2900C/CL Series Interlock cable (1.5 m) N1294A-011 Interlock cable for the 16442A/B test fixture (GPIO Dsub-25 to 6-pin mini plug) Interlock cable (3.0 m) N1294A-012 GPIO - BNC trigger adapter N1294A-031 Digital I/O trigger cable for multiple unit control USB A-BI-O cable (2.0 m) 8121-1696 USB A-B I-O cable USB / GPIB interface 82357B Banana - Triaxial adapter for 2-wire (non-Kelvin) connection Banana - Triaxial adapter for 4-wire (Kelvin) connection Device/component test fixture N1295A Test fixture for E5270 and general use GPIB cable (2.0 m) 10833A GPIB cable (4.0 m) 10833C GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             | 1250-1551      |                                                                   |
| Digital I/O cable (3.0 m) 16493G-002 Digital I/O T-cable N1253A-100 To synchronize triggering between members of the B2900C/CL Series Interlock cable (1.5 m) N1294A-011 Interlock cable for the 16442A/B test fixture (GPIO Dsub-25 to 6-pin mini plug) Interlock cable (3.0 m) N1294A-012 GPIO - BNC trigger adapter N1294A-031 Digital I/O trigger cable for multiple unit control USB A-BI-O cable (2.0 m) 8121-1696 USB A-B I-O cable USB / GPIB interface 82357B Banana - Triaxial adapter for 2-wire (non-Kelvin) connection Banana - Triaxial adapter for 4-wire (Kelvin) connection Device/component test fixture N1295A Test fixture for E5270 and general use GPIB cable (2.0 m) 10833A GPIB cable (4.0 m) 10833C GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Digital I/O cable (1.5 m)                   | 16493G-001     | To synchronize triggering between members of the B2900C/CL Series |
| Digital I/O T-cable N1253A-100 To synchronize triggering between members of the B2900C/CL Series Interlock cable (1.5 m) N1294A-011 Interlock cable for the 16442A/B test fixture (GPIO Dsub-25 to 6-pin mini plug) Interlock cable (3.0 m) N1294A-012 GPIO - BNC trigger adapter N1294A-031 Digital I/O trigger cable for multiple unit control N1294A-032 Required to use EasyEXPERT group+ software with multiple units  USB A-BI-O cable (2.0 m) 8121-1696 USB A-B I-O cable USB / GPIB interface 82357B Banana - Triaxial adapter for 2-wire (non-Kelvin) connection Banana - Triaxial adapter for 4-wire (Kelvin) connection Device/component test fixture N1297A  Test fixture for E5270 and general use GPIB cable (1.0 m) 10833A GPIB cable (2.0 m) 10833B GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             | 16493G-002     | , 30 0                                                            |
| Interlock cable (1.5 m) N1294A-011 Interlock cable for the 16442A/B test fixture (GPIO Dsub-25 to 6-pin mini plug)  Interlock cable (3.0 m) N1294A-012  GPIO - BNC trigger adapter N1294A-031  Digital I/O trigger cable for multiple unit control N1294A-032 Required to use EasyEXPERT group+ software with multiple units  USB A-BI-O cable (2.0 m) 8121-1696 USB A-BI-O cable  USB / GPIB interface 82357B  Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture N1295A  Test fixture for E5270 and general use 16442B  GPIB cable (1.0 m) 10833A  GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             | N1253A-100     | To synchronize triggering between members of the B2900C/CL Series |
| Interlock cable (3.0 m) N1294A-012 GPIO - BNC trigger adapter N1294A-031 Digital I/O trigger cable for multiple unit control  USB A-BI-O cable (2.0 m) 8121-1696 USB A-B I-O cable  USB / GPIB interface 82357B  Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture N1295A  Test fixture for E5270 and general use GPIB cable (2.0 m) 10833A  GPIB cable (2.0 m) 10833B  GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Interlock cable (1.5 m)                     | N1294A-011     |                                                                   |
| GPIO - BNC trigger adapter Digital I/O trigger cable for multiple unit control  USB A-BI-O cable (2.0 m) USB A-BI-O cable (2.0 m) Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture Test fixture for E5270 and general use GPIB cable (2.0 m) GPIB cable (2.0 m) 10833A GPIB cable (4.0 m) 10833C  Required to use EasyEXPERT group+ software with multiple units  Required to use EasyEXPERT group+ software with multiple units  Required to use EasyEXPERT group+ software with multiple units  Required to use EasyEXPERT group+ software with multiple units  Required to use EasyEXPERT group+ software with multiple units  Required to use EasyEXPERT group+ software with multiple units  USB A-B I-O cable  USB A-B I-O cable  USB A-B I-O cable  W1297A  N1297A  N1297B  (Kelvin) connection  Device/component test fixture  N1295A  Test fixture for E5270 and general use GPIB cable (2.0 m) 10833B  GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Interlock cable (3.0 m)                     | N1294A-012     |                                                                   |
| Digital I/O trigger cable for multiple unit control  USB A-BI-O cable (2.0 m)  USB A-BI-O cable (2.0 m)  USB A-BI-O cable  USB / GPIB interface  Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture  Test fixture for E5270 and general use  GPIB cable (1.0 m)  GPIB cable (2.0 m)  10833A  GPIB cable (4.0 m)  Required to use EasyEXPERT group+ software with multiple units  USB A-B I-O cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GPIO - BNC trigger adapter                  | N1294A-031     |                                                                   |
| USB A-BI-O cable (2.0 m)  USB A-BI-O cable  USB / GPIB interface  Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture  Test fixture for E5270 and general use  GPIB cable (1.0 m)  GPIB cable (2.0 m)  10833B  GPIB cable (4.0 m)  8121-1696  USB A-B I-O cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Digital I/O trigger cable for multiple unit | N1294A-032     | Required to use EasyEXPERT group+ software with multiple units    |
| USB / GPIB interface       82357B         Banana - Triaxial adapter for 2-wire (non-Kelvin) connection       N1297A         Banana - Triaxial adapter for 4-wire (Kelvin) connection       N1297B         Device/component test fixture       N1295A         Test fixture for E5270 and general use       16442B         GPIB cable (1.0 m)       10833A         GPIB cable (2.0 m)       10833B         GPIB cable (4.0 m)       10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             | 8121-1696      | USB A-B I-O cable                                                 |
| Banana - Triaxial adapter for 2-wire (non-Kelvin) connection  Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture Test fixture for E5270 and general use GPIB cable (1.0 m) 10833A  GPIB cable (2.0 m) 10833B  GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             | 82357B         |                                                                   |
| Banana - Triaxial adapter for 4-wire (Kelvin) connection  Device/component test fixture  N1295A  Test fixture for E5270 and general use GPIB cable (1.0 m)  GPIB cable (2.0 m)  10833B  GPIB cable (4.0 m)  10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             | N1297A         |                                                                   |
| Device/component test fixture         N1295A           Test fixture for E5270 and general use         16442B           GPIB cable (1.0 m)         10833A           GPIB cable (2.0 m)         10833B           GPIB cable (4.0 m)         10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Banana - Triaxial adapter for 4-wire        | N1297B         |                                                                   |
| Test fixture for E5270 and general use       16442B         GPIB cable (1.0 m)       10833A         GPIB cable (2.0 m)       10833B         GPIB cable (4.0 m)       10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             | N1295A         |                                                                   |
| GPIB cable (1.0 m)       10833A         GPIB cable (2.0 m)       10833B         GPIB cable (4.0 m)       10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                |                                                                   |
| GPIB cable (2.0 m)         10833B           GPIB cable (4.0 m)         10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                |                                                                   |
| GPIB cable (4.0 m) 10833C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                |                                                                   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ` '                                         |                |                                                                   |



# **Step 3. Select Warranty Duration and Calibration Plan (optional)**

Keysight provides factory calibration as standard and free of additional charges.

| Description                                                  | Product number | Additional information                                                                  |
|--------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------|
| Calibration + uncertainties + guard banding (not accredited) | B2901CL-1A7    | Calibration certificate with measurement results available only at the time of purchase |
|                                                              | B2910CL-1A7    |                                                                                         |
|                                                              | B2901C -1A7    |                                                                                         |
|                                                              | B2902C -1A7    |                                                                                         |
|                                                              | B2911C -1A7    |                                                                                         |
|                                                              | B2912C -1A7    |                                                                                         |
| ANSI Z540-1-1994 calibration                                 | B2901CL-A6J    | Calibration certificate with measurement results available only at the time of purchase |
|                                                              | B2910CL-A6J    |                                                                                         |
|                                                              | B2901C -A6J    |                                                                                         |
|                                                              | B2902C -A6J    |                                                                                         |
|                                                              | B2911C -A6J    |                                                                                         |
|                                                              | B2912C -A6J    |                                                                                         |
| Commercial calibration certificate with test data            | B2901CL-UK6    | Calibration certificate with measurement results available only at the time of purchase |
|                                                              | B2910CL-UK6    |                                                                                         |
|                                                              | B2901C -UK6    |                                                                                         |
|                                                              | B2902C -UK6    |                                                                                         |
|                                                              | B2911C -UK6    |                                                                                         |
|                                                              | B2912C -UK6    |                                                                                         |
| Calibration plan — return to Keysight — 3 years              | R-50C-011-3    |                                                                                         |
| Calibration plan — return to Keysight — 5 years              | R-50C-011-5    |                                                                                         |

# Software Upgrade Package for B2900C / CL Series

If you do not have the license for the EasyEXPERT group+ software or the latest GUI functions with your existing B2900C/CL Series, a product update may be necessary. For further information, please contact Keysight.

| Description                      | Product number | Additional information             |
|----------------------------------|----------------|------------------------------------|
| B2901CL software upgrade package | B2901CLU       | Extension support and subscription |
| B2910CL software upgrade package | B2910CLU       |                                    |
| B2901C software upgrade package  | B2901CU        |                                    |
| B2902C software upgrade package  | B2902CU        |                                    |
| B2911C software upgrade package  | B2911CU        |                                    |
| B2912C software upgrade package  | B2912CU        |                                    |

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at <a href="https://www.keysight.com">www.keysight.com</a>.

