

Accessories for the Agilent B2900A Series of Precision Instruments

Agilent B2901/02/11/12A Precision Source/Measure Unit
Agilent B2961/62A 6.5 digit Low Noise Power Source

Catalog

This accessory catalog introduces all of the accessories available for use with the Agilent B2900A Series of Precision Instruments.

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For each category, this document provides a list of accessories, the accessory part numbers, a description of each accessory and a picture or drawing (if applicable).



Interface Adapters and Noise Filters

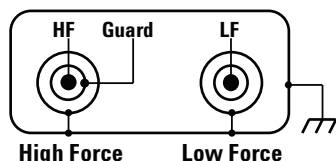
| Short description | Model | Additional information |
|----------------------------|------------|---|
| Banana - Triax Adapter | N1294A-001 | For 2-wire (non Kelvin) connection |
| Banana - Triax Adapter | N1294A-002 | For 4-wire (Kelvin) connection |
| Ultra Low Noise Filter | N1294A-021 | Ultra Low Noise Filter (42V/105mA, 500hm) for B2961/62A |
| Low Noise Filter | N1294A-022 | Low Noise Filter (210V/3A) for B2961/62A |
| GPIO - BNC Trigger Adapter | N1294A-031 | |

N1294A-001 Banana - Triax Adapter for 2-wire (non Kelvin) connection:



This adapter converts the 6P banana outputs to two triax connector outputs. It is available for the B2901A/02A/11A/12A and the B2961A/62A.

Connection Diagram

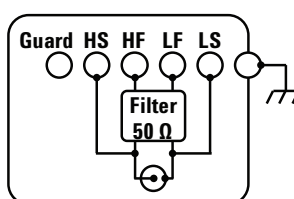


N1294A-021 Ultra Low Noise Filter (42V/105mA, 50 Ω) for B2961/62A:



This adapter converts 6P banana outputs to one BNC connector outputs with the ultra low noise filtering capability. It can be used with the B2961A/62A.

Connection Diagram



N1294A-031 GPIO - BNC Trigger Adapter:



This adapter is used to route the triggering signals from the instrument's GPIO Dsub25 connector for two coax connectors. It is available for the B2901A/02A/11A/12A and the B2961A/62A.

In addition, you can access any of the Digital I/O signal pins by soldering a wire to the corresponding Digital I/O path located on the adapter's internal printed circuit board.

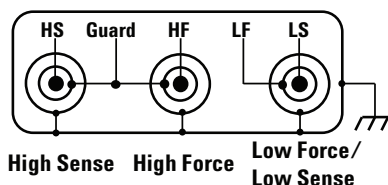
Note: This requires opening the N1294A-031.

N1294A-002 Banana - Triax Adapter for 4-wire (Kelvin) connection:



This adapter converts the 6P banana outputs to three triax connectors. It is available for the B2901A/02A/11A/12A and the B2961A/62A.

Connection Diagram

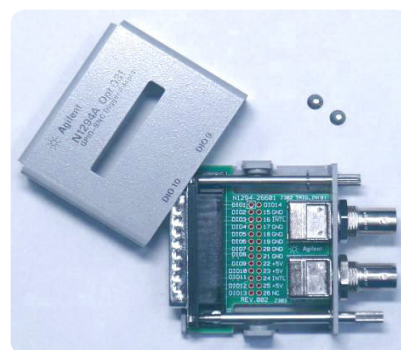
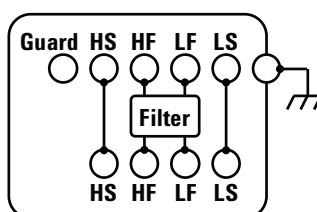


N1294A-022 Low Noise Filter (210V/3A) for B2961/62A:



This adapter converts 6P banana outputs to 4P banana outputs with the low noise filtering capability. It can be used with the B2961A/62A.

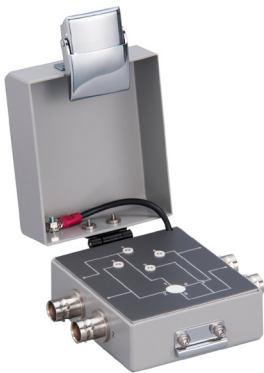
Connection Diagram



Test Fixtures

| Short description | Model | Additional information |
|-------------------------------|--------|--|
| Device/Component Test Fixture | N1295A | Test Fixture with 4 Triax Connectors for Agilent B2900A Series |
| Test Fixture | 16442B | Test Fixture for E5270 and general use |

N1295A Device/Component Test Fixture with 4 Triax Connectors for Agilent B2900A Series:



This test fixture has four triaxial connectors, allowing it to make two 2-wire connections or 4-wire connections.

The N1295A comes with the following accessories:

- Pin plug to miniature clip wire (4 pcs)
- Pin plug to pin plug wire (2 pcs)



16442B Test Fixture:



The 16442B Test Fixture can also be used with the B2900A Series Precision Instruments.

The 16442B Test Fixture has 6 triaxial connectors and 6 BNC coaxial connectors for interfacing with the B2900A Series Precision Instruments.

The 16442B comes with the following accessories:

- Blank PTFE board
- 28-pin dual-in-package (DIP) socket module
- 0.075-inch universal socket module
- 0.5-inch universal socket module
- Miniature banana to pin plug cables, black (4 pcs), red (4 pcs), blue (4 pcs)
- Pin plug to pin plug cables, black (3 pcs), red (3 pcs), blue (3 pcs)
- Miniature banana to miniature clip cables, black (3 pcs), red (3 pcs), blue (3 pcs)
- Miniature banana to miniature banana, black (3 pcs), red (3 pcs), blue (3 pcs)
- Connection pin set (10 ea)
- Accessory case

These accessories give the 16442B Test Fixture the ability to support a wide range of measurement applications.

Signal Cables

| Short description | Model | Additional information |
|--------------------------|------------|---|
| Triax cable | 16494A-001 | Low leakage Triax cable (1.5 m) |
| Triax cable | 16494A-002 | Low leakage Triax cable (3.0 m) |
| Triax cable | 16494A-003 | Low leakage Triax cable (0.8 m) |
| Triax cable | 16494A-004 | Low leakage Triax cable (0.4 m) |
| Triax cable | 16494A-005 | Low leakage Triax cable (4.0 m) |
| High Current Triax cable | 16493L-001 | Triax cable for current higher than 1 A [Ground Unit cable for B1500/E5260/E5270/41501 (Triax, 1.5 m)] |
| High Current Triax cable | 16493L-002 | Triax cable for current higher than 1 A [Ground Unit cable for B1500/E5260/E5270/41501 (Triax, 3.0 m)] |
| Coax cable | 16493B-001 | Coax cable (1.5 m) |
| Coax cable | 16493B-002 | Coax cable (3.0 m) |
| High Current Coax cable | 16493U-001 | High Current BNC Coax cable (1.5 m) |
| High Current Coax cable | 16493U-002 | High Current BNC Coax cable (3.0 m) |
| BNC cable | U2921A-100 | Coaxial BNC cable (1.2 m) |

16494A Triaxial cable:



The 16494A Triaxial cable is suitable for low current applications down to the sub-fA level. It supports a maximum current of 1A DC.

Cable length (options):

16494A-001: 1.5 m
16494A-002: 3.0 m
16494A-003: 0.8 m
16494A-004: 0.4 m
16494A-005: 4.0 m

16493L High Current Triaxial cable:



This cable can be used as a general purpose triaxial cable for high current applications up to 4.2 A DC.

It can also be used for low current applications down to the sub-pA level.

Cable length (options):

16493L-001: 1.5 m
16493L-002: 3.0 m

16493B Coaxial cable:



The 16493B Coaxial cable is suitable for general and low noise applications for up to 40 V and 200 mA

Cable length (options):

16493B-001: 1.5 m
16493B-002: 3.0 m

U2921A-100 BNC cable - 1.2 m:



The U2921A-100 Coaxial BNC cable is compatible with the B2901A/02A/11A/12A and the B2961A/62A.

16493U High Current Coaxial cable:



The 16493U High Current Coaxial cable is suitable for high current applications and it is compatible with the B2901A/02A/11A/12A and the B2961A/62A.

Cable length (options):

16493U-001: 1.5 m
16493U-002: 3.0 m

Interface Cables

| Short description | Model | Additional information |
|---------------------|------------|--|
| Digital I/O cable | 16493G-001 | For triggering use among the B2901A/02A/11A/12A and the B2961A/62A (1.5 m) |
| Digital I/O cable | 16493G-002 | For triggering use among the B2901A/02A/11A/12A and the B2961A/62A (3.0 m) |
| Digital I/O T-cable | N1253A-100 | Digital I/O T-cable for triggering |
| Interlock cable | N1294A-011 | 1.5 m, Interlock cable for 16442A/B test fixture (GPIO Dsub25 to 6pin mini plug) |
| Interlock cable | N1294A-012 | 3.0 m, Interlock cable for 16442A/B test fixture (GPIO Dsub25 to 6pin mini plug) |
| GPIB cable | 10833A | GPIB cable (1.0 m) |
| GPIB cable | 10833B | GPIB cable (2.0 m) |
| GPIB cable | 10833C | GPIB cable (4.0 m) |
| GPIB cable | 10833D | GPIB cable (0.5 m) |
| USB A-BI-O Cable | 8121-1696 | USB A-B I-O cable (2.0 m), 4COND LG PVC White |

16493G Digital I/O cable:



The 16493G Digital I/O cable supports trigger signal distribution for the B2901A/02A/11A/12A and the B2961A/62A.

Cable length (options):

16493G-001: 1.5 m

16493G-002: 3.0 m

N1294A-011/012 Interlock cable for 16442B test fixture:



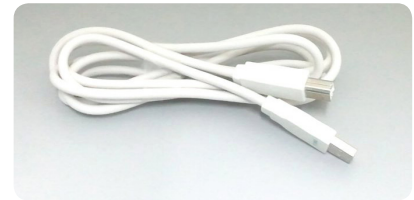
The interlock cable is used to connect between the 16442B test fixture and the instrument's GPIO Dsub25 connector. It is compatible with the B2901A/02A/11A/12A and the B2961A/62A.

Cable length (options):

N1294A-011: 1.5 m

N1294A-012: 3.0 m

8121-1696 USB cable - 2 m:



The USB cable is used to interface between a PC controller and the instrument.

N1253A-100 Digital I/O cable:



The N1253A-100 Digital I/O cable can distribute trigger signals for three units and it supports the B2901A/02A/11A/12A and the B2961A/62A (male - male - female).

10833A/B/C/D GPIB cable:



The Agilent 10833 GPIB cable is engineered for exceptional reliability and durability even under the harshest conditions.

Cable length (options):

10833A: 1.0 m

10833B: 2.0 m

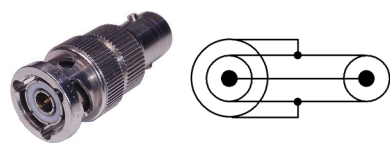
10833C: 4.0 m

10833D: 0.5 m

Cable Adapters

| Short description | Model | Additional information |
|--------------------------------|------------|---|
| Triax(m) to BNC (f) adaptor | N1254A-101 | Triax(male) to BNC (female) adaptor |
| Triax(f) to BNC (m) adaptor | N1254A-102 | Triax(female) to BNC (male) adaptor |
| Triax(m) to BNC (f) adaptor | N1254A-103 | Triax(male) to BNC (female) adaptor |
| Triax (f) to BNC (m) adaptor | N1254A-104 | Triax (female) to BNC (male) adaptor |
| Triax (f) to BNC (m) adaptor | N1254A-105 | Triax (female) to BNC (male) adaptor |
| Triax (m) to BNC (f) adaptor | N1254A-106 | Triax (male) to BNC (female) adaptor |
| Triax (m) to Triax (f) adaptor | N1254A-107 | Triax (male) to Triax (female) adaptor |
| Coax Tee Adapter (m-f-f) | 1250-2405 | Adapter-Coax Tee Male-BNC Female-BNC Female BNC |
| Triax Tee Adapter (f-m-f) | 1250-1551 | BNC Adapter-Coax Tee Female-Triax Male-Triax Female-Triax |

N1254A-101 Triax (m) to BNC (f) adaptor



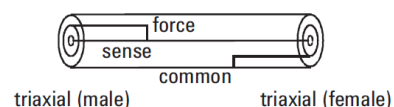
Male triax to female BNC adapter (guard connected to the coax outer conductor).

N1254A-104 Triax (f) to BNC (m) adaptor



Female triax to male BNC adapter (guard connected to the coax outer conductor).

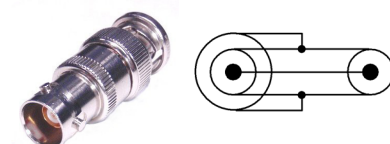
N1254A-107 Triax (m) to Triax (f) adaptor



Female triax to male triax adapter. Male guard is connected to sense, and female guard is connected to the body.

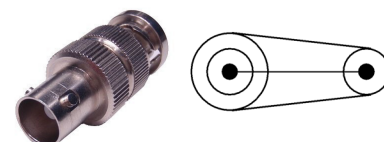
This adapter is used to convert the Low output of the N1294A-002 Banana - Triax Adapter from Kelvin to non-Kelvin sensing.

N1254A-102 Triax (f) to BNC (m) adaptor



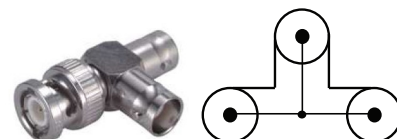
Female triax to male BNC adapter (guard connected to the coax outer conductor).

N1254A-105 Triax (f) to BNC (m) adaptor



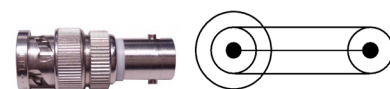
Female triax to male BNC adapter (guard is not connected to the BNC terminal).

1250-2405 Coax Tee Adapter



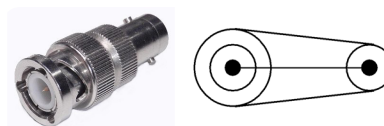
BNC tee adapter, male- female - female.

N1254A-103 Triax (m) to BNC (f) adaptor



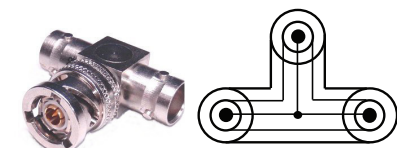
Male triax to female BNC adapter (guard connected to the coax outer conductor).

N1254A-106 Triax (m) to BNC (f) adaptor



Male triax to female BNC adapter (guard is not connected to the BNC terminal).

1250-1551 Triax Tee Adapter



Triax tee adapter, male- female - female.

Rack Mount Kit

| Short description | Model | Additional information |
|---------------------|---------|---|
| Rack mount kit | 34190A | Rack mount kit for 34401A, 33120/250A, 53131A, 34970A, etc. |
| Dual Flange Kit, 2U | 34191A | |
| Dual Lock Link Kit | 34194A | |
| Basic Rail kit | E3663AC | |

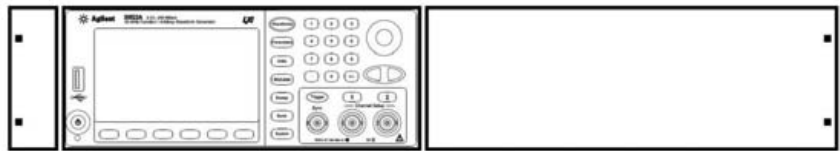
34190A Rack mount kit:



The 34190A Rack mount kit can rack mount a single B2900A Series Precision Instrument in an Agilent rack.

Rack mount image for single B2900A Series Precision Instrument:

- 1 x B2900A Series Precision Instrument
- 34190A Rack mount Kit.
- E3663AC Basic Rail kit



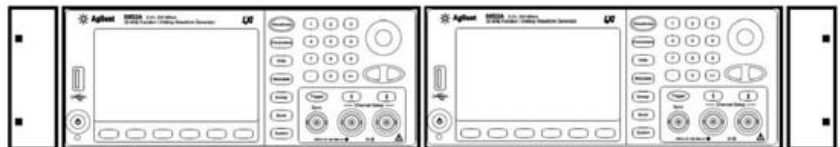
34191A Dual Flange kit, 2U:



The 34191A is a 2U height rack mount flange kit.

Rack mount image for double B2900A Series Precision Instruments:

- 2 x B2900A Series Precision Instruments
- 34191A Dual Flange kit, 2U
- 34194A Dual Lock Link kit
- E3663AC Basic Rail kit



34194A Dual Lock Link kit:



The 34194A Dual Lock Link kit is used with the 34191A to mount two Agilent System II (half-width, 2U height - 88.1 mm) instruments side-by-side.

E3663AC Basic Rail kit:



The E3663AC System II rails support mounting Agilent System II instruments in an Agilent rack.

Other Accessories

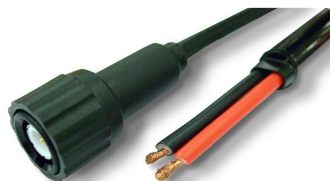
| Short description | Model | Additional information |
|-----------------------------|-------------|--|
| Combo test lead kit | U8201A | |
| Test lead kit | U8202A | Test lead kit, electronic |
| Kelvin probe set | 11059A | Banana-Clip Kelvin probe set |
| BNC to 2 wires | U2941A-107 | BNC to 2 wires - 1.0 m |
| Cable Plug-Plug | N1295-61701 | |
| Cable Plug-Clip | N1295-61702 | |
| Interlock cable adapter set | 16435A | Interlock cable adapter to convert the N1294A-011's 6 pin connector to BNC |

U8201A Combo Test Lead kit:



The U8201A Combo Test Lead Kit includes a pair of test leads, test probes, alligator clips, SMT grabbers, fine-tip test probes, and banana plugs.

U2941A-107 BNC to 2 wires:



This connector supports nongrounded BNC connections. One end is BNC male and the other end consists of two open wires.

16435A Interlock cable adapter set:



This adapter converts the 6 pin interlock connector of the N1294A-011 interlock cable to BNC female output.

U8202A Test Lead kit:



The U8202A Test Lead Kit includes a pair of test lead and probes, alligator clips, SMT grabbers, and fine-tip test probes.

N1295-61701 Cable Plug-Plug:



The plug-plug cable for N1295A.

N1295-61702 Cable Plug-Clip:



The plug-clip cable for N1295A.

11059A Kelvin Probe set:



The 11059A Kelvin probe set consists of two flat tweezers, four banana jacks, and one ground guard connector.

Reference

For reference, this section contains information on non-Agilent accessories that can be used with B2900A Series products.

Accessories available from the other manufactures

This table contains reference information on B2900A compatible accessories available from third party manufacturers.

Note: This information does not constitute an endorsement by Agilent for any of these items.

| Short description | Vendor | Model | Note |
|----------------------------------|----------|----------------|--|
| Adapter-BNA BNC Jack | POMONA | 1269 | This adapter converts banana output terminals to a BNC female terminal. |
| Plug-Banana Double | POMONA | MDP-0 | This plug is used to connect wires to the banana output terminals. |
| Double banana - BNC (f) | Fluke | PM9081 | This adapter converts the banana output terminal to a BNC jack terminal. The outside metal is insulated for safety. |
| BNC cable | POMONA | 72926-C-80 | The outside of the BNC connector of this cable is insulated. |
| Banana - BNC cable | POMONA | 72927-C-80 | The outside of the BNC connector of one end of this cable is insulated. Other end is insulated banana plugs. |
| D-sub 25-pin male connector kit | Amphenol | L717D B25P ST3 | The male D-sub connector. A unique cable, which interfaces to the instrument's digital I/O, can be assembled using this D-sub male connector. It is compatible with the B2901A/02A/11A/12A and the B2961A/62A. |
| D-sub 25-pin female feed-through | Amphenol | L717-DB25P | A female D-sub connector feed-through for use with customized test fixtures, it mates with the L717D B25P ST3 D-sub 25-pin male connector. |

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| Mexico | 01800 5064 800 |
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| | |
|--------------------|----------------|
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| China | 800 810 0189 |
| Hong Kong | 800 938 693 |
| India | 1 800 112 929 |
| Japan | 0120 (421) 345 |
| Korea | 080 769 0800 |
| Malaysia | 1 800 888 848 |
| Singapore | 1 800 375 8100 |
| Taiwan | 0800 047 866 |
| Other AP Countries | (65) 375 8100 |

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| | |
|----------------|----------------------------------|
| Belgium | 32 (0) 2 404 93 40 |
| Denmark | 45 45 80 12 15 |
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| Ireland | 1890 924 204 |
| Israel | 972-3-9288-504/544 |
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