

Keysight Technologies

Accessories for the B2900 Precision Instrument Family

Keysight B2900A Series Precision Source/Measure Units
Keysight B2960A Series 6.5 digit Low Noise Power Sources
Keysight B2980A Series Femto/Picoammeters & Electrometers

This accessory catalog introduces all of the accessories available for use with the Keysight B2900 Precision Instrument Family

Catalog



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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

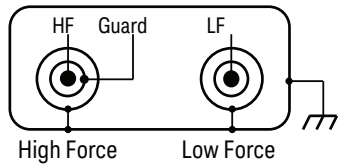
Short description	Model	Additional information
Banana - Triax Adapter	N1294A-001	For 2-wire (non Kelvin) connection
Banana - Triax Adapter	N1294A-002	For 4-wire (Kelvin) connection
High Current Ultra Low Noise Filter	N1294A-020	High Current Ultra Low Noise Filter (21V/500mA, 100 Ω) for B2961A/62A
Ultra Low Noise Filter	N1294A-021	Ultra Low Noise Filter (42V/105mA, 50 Ω) for B2961/62A
Low Noise Filter	N1294A-022	Low Noise Filter (210V/3A) for B2961/62A

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

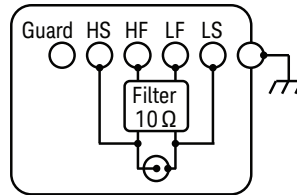


N1294A-020 High Current Ultra Low Noise Filter (21V/500 mA, 10 Ω) for B2961/62A:



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

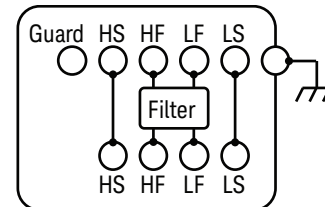


N1294A-022 Low Noise Filter (210V/3A) for B2961/62A:



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

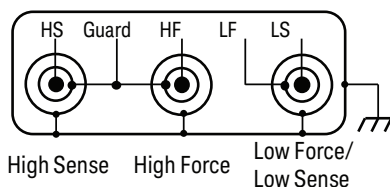


N1294A-002 Banana - Triax Adapter for 4-wire (Kelvin) connection:



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

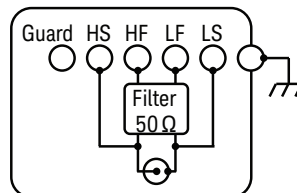


N1294A-021 Ultra Low Noise Filter (42V/105mA, 50 Ω) for B2961/62A:



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



Adapters for Resistance Measurement

Short description	Model	Additional information
GPIO-BNC Trigger Adapter	N1294A-031	
Digital I/O Trigger Cable for Multiple Unit Control	N1294A-032	Required to use the multiple units of the B2901A/02A/11A/12A with EasyEXPERT group+ software
High Resistance Meter Fixture Adapter	N1413A	Adapter to enable to use the 16008B, 16117B/C and 16339A with the B2985A/87A for resistance measurement
High Resistance Measurement Universal Adapter	N1414A	For resistance measurement using the B2985A/87A

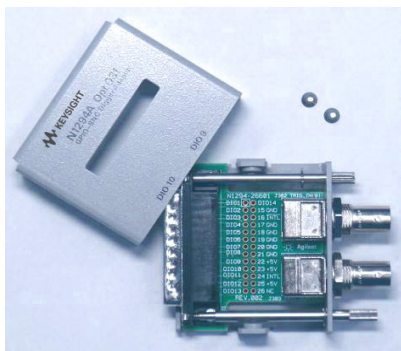
N1294A-031 GPIO - BNC Trigger Adapter:



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.

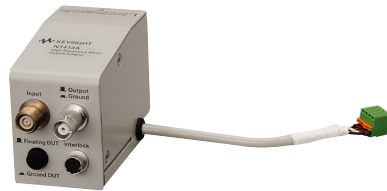
Note: This requires opening the N1294A-031.



N1294A-032 Digital I/O Trigger Cable for Multiple Unit Control



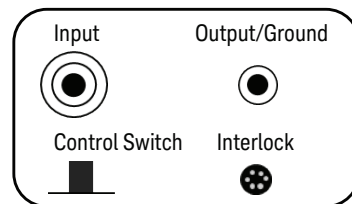
N1413A High Resistance Meter Fixture Adapter for B2985/87A:



This adapter enables to use the 16008B, 16117B/C and 16339A with the B2985A/87A.

In addition, by using this adapter, sourced voltage can be monitored by the Voltmeter in the B2985A/87A without changing connection.

Terminal Connector



Input: Triaxial (special screw-type)
 Output/Ground *: High Voltage BNC (special type) Interlock: 6 pin mini plug interlock connector

Note: please refer to User's Guide for Keysight B2980A series for the details.
<http://literature.cdn.keysight.com/litweb/pdf/B2980-90010.pdf>

This adapter is required to use the multiple units of the B2901A/02A/11A/12A with EasyEXPERT group+ software. The adapter has 4 Dsub25 connectors, which enables you to connect up to 4 units of the B2901A/02A/11A/12A and to control them through EasyEXPERT group+software.

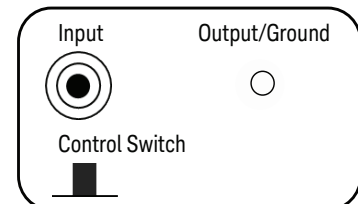
N1414A High Resistance Measurement Universal Adapter for B2985/87A:



This adapter simplifies the cabling when making resistance measurement with the B2985A/87A.

In addition, by using this adapter, sourced voltage can be monitored by the Voltmeter in the B2985A/87A without changing connection.

Terminal Connector



Input: Triaxial
 Output/Ground *: Banana connector

Note: please refer to User's Guide for Keysight B2980A Series Femto/Picoammeter & Electrometer for the details.
<http://literature.cdn.keysight.com/litweb/pdf/B2980-90010.pdf>

Test Fixtures

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

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



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

The N1295A test fixture supports up to 42 V and 1.05 A DC.

It is compatible with the B2901A/02A/11A/12A and B2961A/62A

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 triaxial connectors of the 16442B support up to 200 V and 1 A DC.

It is compatible with the B2901A/02A/11A/12A and B2961A/62A.

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.

Note: Please refer to User's Guide for Keysight 16442B Test Fixture for the details.

<http://literature.cdn.keysight.com/litweb/pdf/16442-90100.pdf>

Signal Cables

Short description	Model	Additional information
Triax cable	16494A-001	Low leakage Triax cable (200 V, 1.5 m)
Triax cable	16494A-002	Low leakage Triax cable (200 V, 3.0 m)
Triax cable	16494A-003	Low leakage Triax cable (200 V, 0.8 m)
Triax cable	16494A-004	Low leakage Triax cable (200 V, 0.4 m)
Triax cable	16494A-005	Low leakage Triax cable (200 V, 4.0 m)
High Current Triax cable	16493L-001	Triax cable for current higher than 1 A (1.5 m) [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 (3.0 m) [Ground Unit cable for B1500/E5260/E5270/41501 (Triax, 3.0 m)]
High Voltage Triax cable	N1412A	Low leakage Triax cable (500 V, 1.5 m)
High Voltage Triax cable	N1412B	Low leakage Triax cable (500 V, 3 m)
High Voltage Triax cable	N1412C	Low leakage Triax cable (500 V, 6 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)
Triax to Alligator cable	N1415A	Triax to alligator cable (1.5 m)
High Voltage Test leads	U8201-60001	High voltage test leads (1.3 m), black (1 pcs), red (1 pcs)

16494A Triaxial cable:



The 16494A Triaxial cable is suitable for low current applications down to the sub-fA level. It supports a maximum voltage/current of 200V/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 and 200 V.

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

N1412A/B/C High Voltage Triaxial cable:



The N1412A/B/C Triaxial cable is suitable for low current applications down to the sub-fA level. It supports a maximum voltage/current of 500 V/1 A DC.

Cable length (options):

N1412A: 1.5 m
N1412B: 3.0 m
N1412C: 6.0 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

Signal Cables (continued)

U2921A-100 BNC cable - 1.2 m:



The U2921A-100 Coaxial BNC cable is compatible with the B2901A/02A/11A/12A, B2961A/62A and B2981A/83A/ 85A/87A.

16493U High Current Coaxial cable:

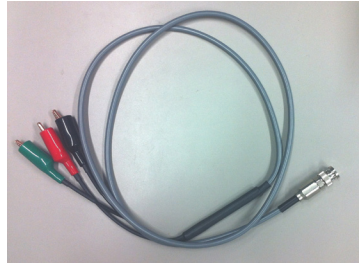


The 16493U High Current Coaxial cable is suitable for high current applications and it is compatible with the B2901A/02A/11A/12A, B2961A/62A and B2981A/83A/85A /87A. It supports up to 40 V and 20 A pulse.

Cable length (options):

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

N1415A Triax to Alligator cable:



Triax cable terminated with a male triax connector on one end and three alligator clips on the other. It supports up to 200 V and 1A DC.

It is compatible with the B2901A/02A/11A/12A, B2961A/62A and B2981A/83A/85A/87A.

Note: Appropriate connections between the alligator clips, shielding box and DUT are required when performing sensitive low-level measurements.

U8201-60001 High Voltage Test leads:



U8201-60001 includes one red and one black high voltage test lead with banana plug ends.

These cables are included in the U8201A (see "Other accessories" on page 14)

The leads are (approx.) 1.3 m and support CAT III 1000 V, 15A.

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
RS-232 Cable Kit	34398A	RS-232 cable kit for Digital I/O of the B2980A Series 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)
Interlock cable	N1411A	Interlock cable, 4 pin terminal plug to 6 pin circular plug (1.5 m)
Interlock cable	N1411B	Interlock cable, 4 pin terminal plug to 6 pin circular plug (3.0 m)
GPIO cable	10833A	GPIO cable (1.0 m)
GPIO cable	10833B	GPIO cable (2.0 m)
GPIO cable	10833C	GPIO cable (4.0 m)
GPIO cable	10833D	GPIO cable (0.5 m)
USB A-B-I-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

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).

34398A RS-232 Cable Kit:



The 34398A is an RS-232 cable kit which includes a 9-pin (f) to 9-pin(f) RS-232 cable and a 9-pin (m) to 25-pin (f) adapter. It is compatible with the B2981A/83A/85A/87A and supports trigger signal distribution for the B2981A/83A /85A/87A , B2961A/62A and B2901A /02A/11A/12A.

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

Interface Cables (continued)

N1411A/B: Interlock cable:



N1411A/B is an interlock cable terminated with a 4-pin terminal plug on one end and 6-pin circular plug on the other. It is compatible with the B2981A/83A/85A/87A.

Cable length (options):

N1411A: 1.5 m
N1411B: 3.0 m

10833A/B/C/D GPIB cable:



The Keysight 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

8121-1696 USB cable - 2 m:

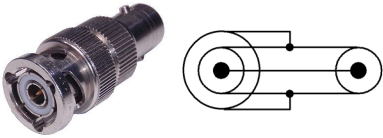


The USB cable is used to interface between a PC controller and the instrument.

Cable Adapters and Connectors

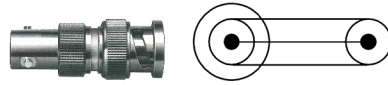
Short description	Model	Additional information
Triax(m) to BNC (f) adaptor	N1254A-101	Triax(male) to BNC (female) adaptor
Triax(f) to BNC (m) adaptor	N1254A-102	Triax(female) to BNC (male) adaptor
Triax(m) to BNC (f) adaptor	N1254A-103	Triax(male) to BNC (female) adaptor
Triax (f) to BNC (m) adaptor	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
Triax (f) to Triax (f) adaptor	1250-2618	Triax (female) to Triax (female) adapter feedthrough
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
Triax Bulkhead connector	N1416A	Triax bulkhead connector, 200V
Triax Bulkhead connector	N1416B	Triax bulkhead connector, 500V
Open cap	N1417A	Open cap for Triax connector
Double Banana – BNC (f)	1251-2277	

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



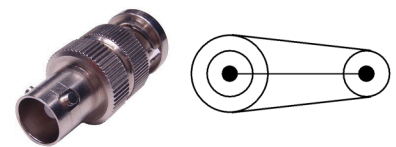
Male triax to female BNC adapter (guard connected to the coax outer conductor). It supports up to 200 V.

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



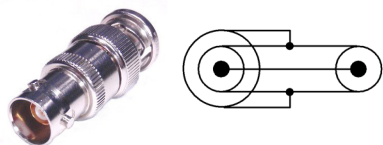
Female triax to male BNC adapter (guard connected to the coax outer conductor). It supports up to 200 V.

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



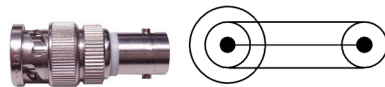
Female triax to male BNC adapter (guard is not connected to the BNC terminal). It supports up to 200 V.

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



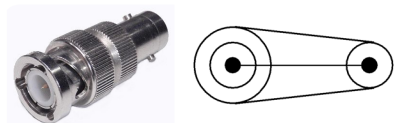
Female triax to male BNC adapter (guard connected to the coax outer conductor). It supports up to 200 V.

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



Male triax to female BNC adapter (guard connected to the coax outer conductor). It supports up to 200 V.

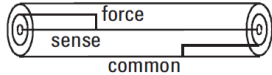
N1254A-106 Triax (m) to BNC (f) adaptor



Male triax to female BNC adapter (guard is not connected to the BNC terminal). It supports up to 200 V.

Cable Adapters and Connectors (continued)

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

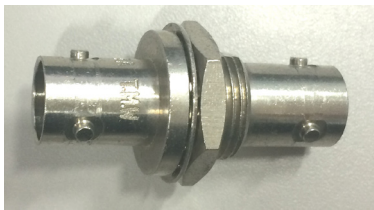


triaxial (male) triaxial (female)

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

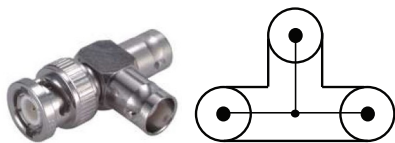
This adapter is used to convert the Low output of the N1294A-002 Banana - Triax Adapter from Kelvin to non-Kelvin sensing.

1250-2618: Triax (f) to Triax (f) adaptor



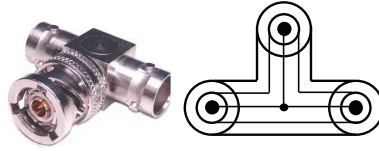
Female triax to female triax adapter for use with triax interconnect. It supports up to 200 V.

1250-2405 Coax Tee Adapter



BNC tee adapter, male- female - female.

1250-1551 Triax Tee Adapter



Triax tee adapter, male- female - female. It supports up to 200 V.

N1416A/B: Triax bulkhead connector



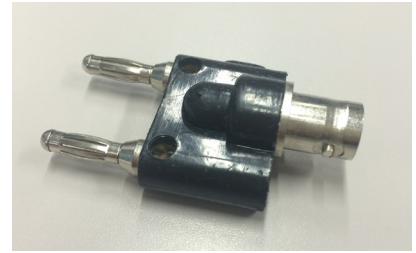
Triax bulk-head connector for soldered connections. N1416A and N1416B support a maximum voltage of 200 V and 500V, respectively.

N1417A: Open Cap for Triax connector



Protective shield/cap for Triax connector

1251-2277: Double Banana - BNC (f)



Dual Banana to BNC adapter for connecting instrument with dual banana jack

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	

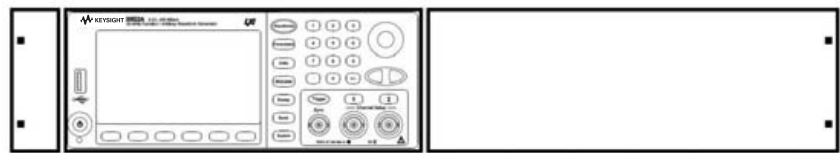
34190A Rack mount kit:



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

Rack mount image for single B2900A Series Precision Instrument:

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



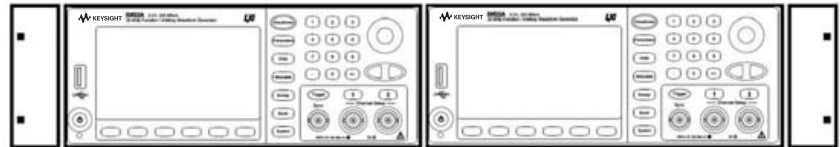
34191A Dual Flange kit, 2U:



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 Keysight System II (half-width, 2U height - 88.1 mm) instruments side-by-side.

E3663AC Basic Rail kit:



The E3663AC System II rails support mounting Keysight System II instruments in an Keysight 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	
Alligator clips	U3606-60030	Alligator clips, black (1pcs) , red (1 pcs)
Interlock cable adapter set	16435A	Interlock cable adapter to convert the N1294A-011's 6 pin connector to BNC
Lithium-ion battery pack	N1418A	Lithium-ion battery pack for the B2983A/87A
Benchtop battery charger	N1419A	Benchtop battery charger for the N1418A
Thermocouple	N1423A	Thermocouple for the B2985A/87A

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. Included test probe lead supports CAT III 1000 V, 15 A.

U8202A Test Lead kit:



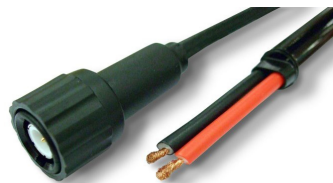
The U8202A Test Lead Kit includes a pair of test lead and probes, alligator clips, SMT grabbers, and fine-tip test probes. Included test lead & probe support CAT III 1000 V, 15 A.

11059A Kelvin Probe set:



The 11059A Kelvin probe set consists of two flat tweezers, four banana jacks, and one ground guard connector. It supports maximum voltage of 42V.

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.

N1295-61701 Cable Plug-Plug:



The plug-plug cable for N1295A.

N1295-61702 Cable Plug-Clip:



The plug-clip cable for N1295A.

Other Accessories (continued)

U3606-60030: Alligator clips:



U3606-60030 includes one red and one black alligator clips with boots. These are included in the U8201A and U8202A. The alligator clips support CAT III 1000 V, 10 A.

N1418A: Lithium-ion battery



Lithium-ion rechargeable battery for the B2983A/87A.

N1419A: Benchtop battery charger



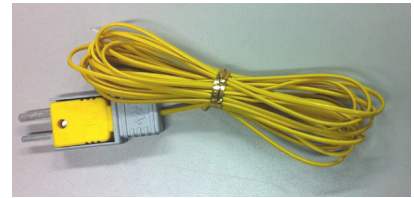
Benchtop battery charger for the N1418A used for the B2983A/87A.

16435A Interlock cable adapter set:



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

N1423A: Thermocouple



K-type thermocouple (3.5 m) for the B2985A/87A.

Reference

For reference, this section contains information on non-Keysight accessories that can be used with B2900A Family 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 Keysight 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.
Humidity sensor	E+E Electronik	EE07	The B2985A/87A supports the EE07 Digital Humidity/Temperature Probe from E+E Electronik. The EE07-PFT1 is recommended for standard applications and the EE07-MFT9 for clean room applications, food and pharmaceutical industry applications.

B2900 Precision Instrument Family

The B2900 family contains products that perform both precision sourcing and precision measurement.

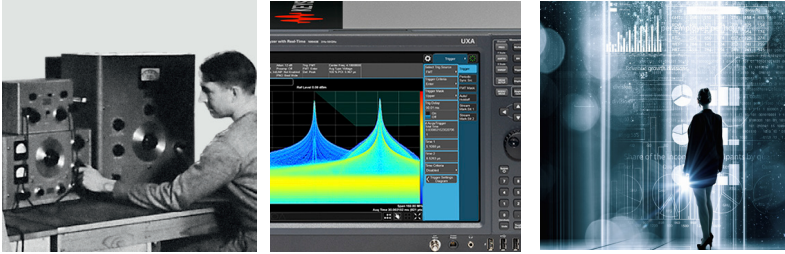
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