



Accessories for the B2900C Precision Instrument Family

Keysight B2900C/CL series precision source/measure units

Keysight B2960C series 6.5-digit low noise power sources

Keysight B2980C series femto/picoammeters and electrometers narrow

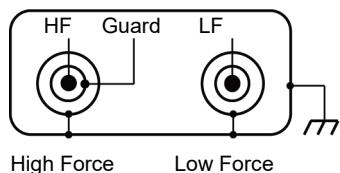
Interface Adapters and Noise Filters

Short description	Model	Additional information
Banana - Triax adapter	N1297A	For a 2-wire (non-Kelvin) connection
Banana - Triax adapter	N1297B	For a 4-wire (Kelvin) connection
High current ultra low noise filter	N1298A	High current ultra low noise filter (21V/500 mA, 10 Ohm) for B2961/62.
Ultra low noise filter	N1298B	Ultra low noise filter (42V/105 mA, 50 Ohm) for B2961/62
Low noise filter	N1298C	Low noise filter (210V/3A) for B2961/62

N1297A Banana - Triax Adapter for a 2-wire (non-Kelvin) connection:



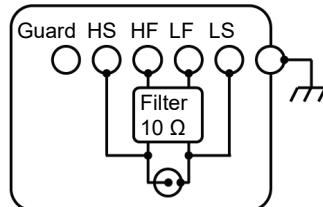
This adapter converts the 6P banana outputs to two triax connector outputs. It is available for the B2901/10CL, B2901/02/11/12C and the B2961/62C.



N1298A High Current Ultra Low Noise Filter (21V/500 mA, 10 Ω) for B2961/62:



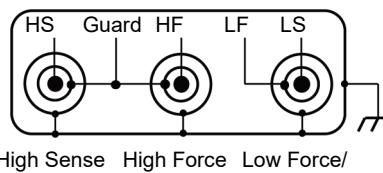
This adapter converts 6P banana outputs to one BNC connector output with ultra-low noise filtering capability. It can be used with the B2961/62C.



N1297B Banana - Triax Adapter for a 4-wire (Kelvin) connection:



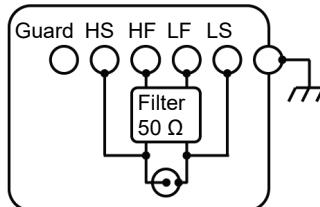
This adapter converts the 6P banana outputs to three triax connectors. It is available for the B2901/10CL, B2901/02/11/12C and the B2961/62C.



N1298B Ultra Low Noise Filter (42V/105mA, 50 Ω) for B2961/62:



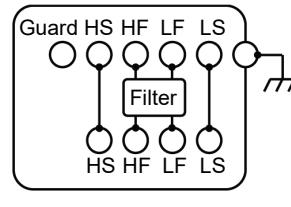
This adapter converts 6P banana outputs to one BNC connector output with ultra-low noise filtering capability. It can be used with the B2961/62C.



N1298C Low Noise Filter (210V/3A) for B2961/62:



This adapter converts 6P banana outputs to 4P banana outputs with low noise filtering capability. It can be used with the B2961/62C.



Adapters for Resistance Measurement

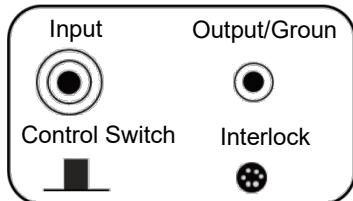
Short description	Model	Additional information
GPIO-BNC trigger adapter	N1294A-031	
Digital I/O trigger cable for Multiple unit control	N1294A-032	Required to use the multiple units of the B2901/10BL, B2901/02/11/12C with EasyEXPERT group+ software
High resistance meter fixture adapter	N1413A	Adapter to enable to use the N1424A/B/C, N1425A/B, N1427A/B and N1428A with the B2985/87C for resistance measurement
High resistance measurement universal adapter	N1414A	For resistance measurement using the B2985/87C

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



This adapter enables the use of the N1424A/B/C, N1425A/B, N1427A/B, and N1428A with the B2985/87C.

In addition, this adapter allows the Voltmeter in the B2985/87C to monitor the source voltage without changing the connection.



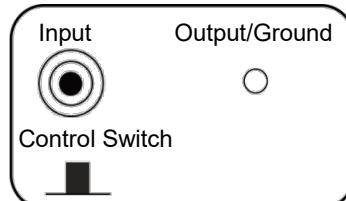
Input: Triaxial (special screw-type) Output/Ground *:
High Voltage BNC (special type) Interlock: 6-pin mini plug interlock connector
Note: For details, please refer to the [User's Guide for Keysight B2980C Series Femto/Picoammeter Electrometer/High Resistance Meter](#).

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



This adapter simplifies the cabling when making resistance measurements with the B2985/87C.

In addition, this adapter allows the Voltmeter in the B2985/87C to monitor the source voltage without changing the connection.



Input: Triaxial
Output/Ground *: Banana connector
Note: For details, please refer to the [User's Guide for Keysight B2980C Series Femto/Picoammeter Electrometer/High Resistance Meter](#).

Test Fixtures

Short description	Model	Additional information
Device / Component test fixture	N1295A	Test Fixture with 4 Triax Connectors for Keysight B2900C/CL Series
Test fixture	16442B	Test Fixture for E5270 and general use
Resistivity cell	N1424A	For N1413 with B2980 Series (50 mm Electrodes)
	N1424B	For N1413 with B2980 Series (26/50 mm Diameter Electrodes)
	N1424C	For N1413 with B2980 Series (26/50/76 mm Diameter Electrodes)
Component test fixture	N1428A	For N1413 with B2980 Series

N1295A Device/Component Test Fixture with 4 Triax Connectors for Keysight B2900C/CL 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 B2901/10CL, B2901/02/11/12C and B2961/62C.

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 B2900C/CL Series Precision Instruments.

The 16442B Test Fixture has 6 triaxial connectors and 6 BNC coaxial connectors for interfacing with the B2900C/CL Series Precision Instruments.

The triaxial connectors of the 16442B support up to 200 V and 1 A DC. It is compatible with the B2901/10CL, B2901/02/11/12C and B2961/62C.

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 allow the 16442B Test Fixture to support a wide range of measurement applications.

Note: Please refer to the [User's Guide for Keysight 16442B Test Fixture](#) for the details.

N1424A/B/C Resistivity Cell:



This N1424A/B/C resistivity cell can be used with the B2985/87C to measure surface or volume resistivity of insulation materials. Three kinds of electrodes (diameter: 26 mm/50 mm/76 mm) are available to meet various insulation measurement standards such as ASTM D-257.

The N1413A adapter is required to use the N1424A/B/C resistivity cell with the B2985/87C. The 50 mm diameter electrode is furnished with the N1424A. The 26 mm/50 mm diameter electrodes are furnished with the N1424B.



The 26 mm/50 mm/76 mm diameter electrodes in the carrying case are furnished with the N1424C.



Note: For details, please refer to the [User's Guide for Accessories for B2985C/B2987C](#).

N1428A Component Test Fixture:



This N1428A component test fixture can be used with the B2985/87C to measure SMD, lead, and various types of devices.

The N1413A adapter is required to use the N1428A component test fixture with the B2985/87C.

The N1428A comes with the following accessories:

- SMD module
- Flat table
- Miniature Banana-plug cable (2 pcs)
- 100 k Ω output resistor
- 1 M Ω output resistor
- 10 M Ω output resistor
- 100 M Ω output resistor
- Alligator clip (2 pcs)
- Carrying case

Note: For details, please refer to the [User's Guide for Accessories for B2985C/B2987C](#).

Signal Cables

Short description	Model	Additional information
Triax cable	16494A-001	Low leakage Triax cable (200 V, 1.5 m)
	16494A-002	Low leakage Triax cable (200 V, 3.0 m)
	16494A-003	Low leakage Triax cable (200 V, 0.8 m)
	16494A-004	Low leakage Triax cable (200 V, 0.4 m)
	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)]
	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)
	N1412B	Low leakage Triax cable (500 V, 3.0 m)
	N1412C	Low leakage Triax cable (500 V, 6.0 m)
Coax cable	16493B-001	Coax cable (1.5 m)
	16493B-002	Coax cable (3.0 m)
High current coax cable	16493U-001	High Current BNC Coax cable (1.5 m)
	16493U-002	High Current BNC Coax cable (3.0 m)
BNC cable	U2921A-100	Coaxial BNC cable (1.2 m)
High voltage test leads	U8201-60001	High voltage test leads (1.3 m), black (1 pcs), red (1 pcs)
Triax to Alligator cable	N1415A	Triax to alligator cable (1.5 m)
Low noise test leads	N1425A	For N1413 with B2980 series (1.5 m)
	N1425B	For N1413 with B2980 series (3.0 m)
Pin probes	N1426A	Pin Probes for N1425
Soldering sockets	N1426B	Soldering Sockets for N1425
Alligator clips	N1426C	Alligator Clips for N1425
Low noise test cables	N1427A	For N1413 with B2980 series (1.5 m)
	N1427B	For N1413 with B2980 series (3.0 m)

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

16493U High Current Coaxial cable:

The 16493U High Current Coaxial cable is suitable for high-current applications and is compatible with the B2901/10CL, B2901/02/11/12C, B2961/62C, and B2981/83/85/87C. It supports up to 40 V and 20 A pulses.

Cable length (options):

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

U2921A-100 BNC cable:

The U2921A-100 Coaxial BNC cable (1.2 m) is compatible with the B2901/10CL, B2901/02/11/12C, B2961/62C, and B2981/83/85/87C.

U8201-60001 High Voltage Test leads:



U8201-60001 includes one red and one black high-voltage test lead with banana plug ends. The leads are (approx.) 1.3 m and support CAT III 1000 V, 15A.

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 B2901/10CL, B2901/02/11/12C, B2961/62C. and B2981/83/85/87C.

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

N1425A/B Low Noise Test Leads:



N1425A/B is used to measure resistance with the B2985/87C. The N1413A and one of the N1426A/B/C are required to use the N1425A/B with the B2985/87C

Cable length (options):

N1425A: 1.5 m

N1425B: 3.0 m

Note: For details, please refer to the [User's Guide for Accessories for B2985C/B2987C](#).

N1426A Pin Probes:



Pin probes used with the N1425 for the B2985/87C

N1426B Soldering Sockets:



Soldering sockets used with the N1425 for the B2985/87C.

N1426C Alligator Clips:



Alligator clips used with the N1425 for the B2985/87C.

N1427A/B Low Noise Test Cables:



N1427A/B is used to measure resistance with the B2985/87C. The N1413A is required to use the N1427A/B with the B2985/87C.

Cable length (options):

N1427A: 1.5 m

N1427B: 3.0 m

Note: For details, please refer to the [User's Guide for Accessories for B2985C/B2987C](#).

Interface Cables

Short description	Model	Additional information
Digital I/O cable	16493G-001	For triggering use among the B2901/10CL, B2901/02/11/12C and the B2961/62C. (1.5 m)
	16493G-002	For triggering use among the B2901/10CL, B2901/02/11/12C and the B2961/62C. (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 B2980C Series for triggering
Interlock cable	N1294A-011	For 16442A/B test fixture (GPIO Dsub25 to 6pin mini plug, 1.5 m)
	N1294A-012	For 16442A/B test fixture (GPIO Dsub25 to 6pin mini plug, 3.0 m)
	N1411A	4-pin terminal plug to 6-pin circular plug (1.5 m)
	N1411B	4-pin terminal plug to 6-pin circular plug (3.0 m)
GPIB cable	10833A	GPIB cable (1.0 m)
	10833B	GPIB cable (2.0 m)
	10833C	GPIB cable (4.0 m)
	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
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 B2901/10CL, B2901/02/11/12C with EasyEXPERT group+ software

16493G Digital I/O cable:



The 16493G Digital I/O cable supports trigger signal distribution for the B2901/10CL, B2901/02/11/12C and the B2961/62C.

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 supports the B2901/10CL, B2901/02/11/12C, and the B2961/62C (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 B2981/83/85/87C and supports trigger signal distribution for the B2981/83/85/87C, B2961/62C and B2901/10CL, B2901/02/11/12C.

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



The interlock cable connects the 16442B test fixture to the instrument's GPIO Dsub25 connector. It is compatible with the B2901/10CL, B2901/02/11/12C and the B2961/62C.

Cable length (options):
N1294A-011: 1.5 m
N1294A-012: 3.0 m

N1411A/B Interlock cable:



N1411A/B is an interlock cable terminated with a 4-pin terminal plug on one end and a 6-pin circular plug on the other. It is compatible with the B2981/83/85/87C.

Cable length (options):
N1411A: 1.5 m
N1411B: 3.0 m

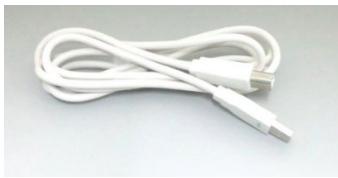
10833A/B/C/D GPIB cable:



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 interfaces between a PC controller and the instrument.

N1294A-031 GPIO - BNC Trigger Adapter:



This adapter routes the triggering signals from the instrument's GPIO Dsub25 connector to two coax connectors. It is available for the B2901/10CL, B2901/02/11/12C and the B2961/62C. 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



This adapter is required for multiple units of the B2901/10CL and B2901/02/11/12C with the EasyEXPERT group+ software. It has 4 Dsub25 connectors, which enable you to connect up to 4 units of the B2901/10CL and B2901/02/11/12C and control them through the EasyEXPERT group+ software.

Cable Adapters and Connectors

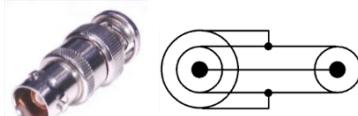
Short description	Model	Additional information
Triax(m) to BNC (f) adaptor	N1254A-101	Triax(male) to BNC (female) adaptor
Triax(f) to BNC (m) adaptor	N1254A-102	Triax(female) to BNC (male) adaptor
Triax(m) to BNC (f) adaptor	N1254A-103	Triax(male) to BNC (female) adaptor
Triax (f) to BNC (m) adaptor	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
	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-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-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:



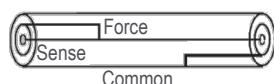
Female triax to male BNC adapter (guard is not connected to the BNC terminal). It supports up to 200 V.

N1254A-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.

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



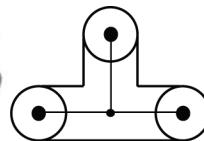
Female triax to male triax adapter. The male guard is connected to the sense, and the female guard is connected to the body. This adapter converts the Low output of the N1297B Banana—Triax Adapter from Kelvin to non-Kelvin sensing.

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



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 500 V, 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 an instrument with a dual banana jack

Rack Mount Kit

Short description	Model	Additional information
Rack mount kit	1CM124A	
Dual flange kit, 2U	1CM107A	
Dual lock link kit	34194A	
Basic rail kit	E3663AC	

1CM124A Rack mount kit:



The 1CM124A Rack mount kit can mount a single B2900C/CL Series Precision Instrument in a Keysight rack.

1CM107A Dual Flange kit, 2U:



The 1CM107A is a 2U height rack mount flange kit.

34194A Dual Lock Link kit:



The 34194A Dual Lock Link kit is used with the 1CM107A to mount two Keysight System II (half-width, 2U height - 88.1 mm) instruments side-by-side.

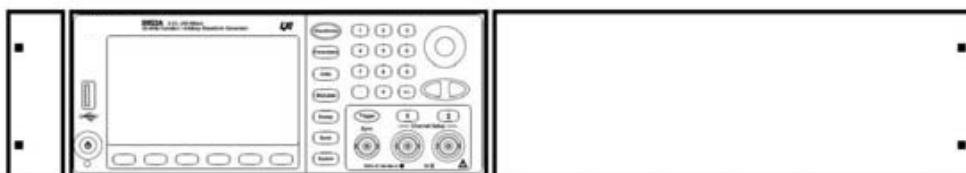
E3663AC Basic Rail kit:



The E3663AC System II rails support mounting Keysight System II instruments in a Keysight rack.

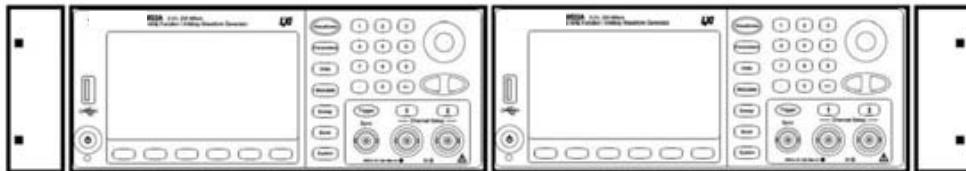
Rack mount image for single B2900C/CL Series Precision Instrument:

1 x B2900C/CL Series Precision Instrument
1CM124A Rack mount Kit.
E3663AC Basic Rail kit



Rack mount image for double B2900C/CL Series Precision Instruments:

2 x B2900C/CL Series Precision Instruments
1CM107A Dual Flange kit, 2U
34194A Dual Lock Link kit
E3663AC Basic Rail kit



Other Accessories

Short description	Model	Additional information
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 (1 pcs), 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 B2983/87C
Thermocouple	N1423A	Thermocouple for the B2985/87C

11059A Kelvin Probe set:



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

N1295-61702 Cable Plug-Clip:



The plug-clip cable for N1295A.

N1418A Lithium-ion battery:



Lithium-ion rechargeable battery for the B2983/87C.

U2941A-107 BNC to 2 wires:



This connector supports non-grounded BNC connections. One end is BNC male, and the other consists of two open wires.

U3606-60030 Alligator clips:



U3606-60030 includes one red and one black alligator clip with boots.

N1423A Thermocouple:



K-type thermocouple (3.5 m) for the B2985/87C.

N1295-61701 Cable Plug-Plug:



The plug-Plug cable for N1295A.

16435A Interlock cable adapter set:



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

Accessories from Other Manufacturers

This table contains reference information on B2900C/CL-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	Additional information
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 on one end of this cable is insulated, and the other end has 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 B2901/10CL, B2901/02/11/12C and the B2961/62C.
D-sub 25-pin female feed-through	Amphenol	L717-DB25P	This is 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 B2985/87C 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, food, and pharmaceutical industry applications.
Benchtop battery charger	RRC POWER SOLUTIONS	RRC-SMB-UBC	Benchtop battery charger for N1418A

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