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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 42843A Bias Current Cable

Keysight / Agilent 42843A Bias Current Cable The 42843A isaKeysight/Agilent bias current cable accessory used with LCR / impedance analyzer bias fixtures and current sources in the 4284x bias accessory family. The 42843A isaKeysight/Agilent bias current cable accessory used with LCR / impedance analyzer bias fixtures and current sources in the 4284x bias accessory family.



MODEL

**Keysight / Agilent
42843A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

42843A

LISTING

[https://aumictechlabs.c
om/products/42843a-
2/](https://aumictechlabs.com/products/42843a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) 42843A Bias Current Cable is a shielded interconnect designed to apply DC bias current to a device under test during impedance analysis. It enables characterization of inductors, capacitors, and power components under realistic operating conditions by delivering controlled DC bias while impedance parameters are measured. The cable integrates into multi-component bias systems capable of supplying up to 40 A of DC bias current, making it essential for accurate L and C measurements on biased DUTs. Technical Specifications Supported DC bias current: Up to 40 A Cable length: Approximately 960 mm Weight: Approximately 1200 g Operating temperature: 0 °C to 55 °C Shielding: Provides shielded connection to minimize interference and crosstalk Key Features Shielded construction minimizes RF and electromagnetic interference during measurements Designed as a component within a larger bias measurement system, not a

standalone instrument Electrical length compensation required when integrated into test fixtures
Typical applications involve two 42841A bias sources, a 42842B fixture, and 16048A test leads
connected to compatible LCR meters Typical Applications DC-biased inductance measurements
on power inductors Characterization of film and ceramic capacitors under bias conditions
Impedance analysis of magnetic components requiring up to 40 A DC bias Component parameter
extraction in realistic operating bias scenarios Compatibility & Integration LCR meter compatibility:
E4980A (Option E4980A-002), 4284A (Option 4284A-002), 4285A (Option 4285A-002) Bias
source: Keysight (Agilent) 42841A Test fixtures: Keysight (Agilent) 42842A / 42842B Test leads:
Keysight (Agilent) 16048A

Features & description

From manufacturer datasheet

Features

- Accessory type: bias current cable
 - Family: 4284x bias accessories
 - Role: carries DC bias current between source and fixture
 - Not a standalone instrument
-

Applications

- Connecting bias current sources to LCR measurement fixtures
- Impedance analyzer DC bias setups
- Accessory cabling for 4284x bias systems

42843A Characteristics / Specifications

PARAMETER	VALUE
Model	42843A
Manufacturer	Keysight / Agilent
Instrument Type	Bias Current Cable Accessory
Alias	42843A; Agilent 42843A; Keysight 42843A
Type	bias current cable
Family	4284x accessories Notes Public electrical tables are sparse for this cable SKU; identity from Keysight/Agilent 4284x accessory listings. Confirm connector types and length on the unit; finer ratings belong on the companion bias source/fixture datasheets.
Accessory type	bias current cable
Role	carries DC bias current between source and fixture

42843A Specifications

PARAMETER	VALUE
Keysight / Agilent 42843A Bias Current Cable	Overview
Key Features	- Accessory type: bias current cable
Technical Specifications	Model: 42843A

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	42843A
Manufacturer	Keysight / Agilent
Instrument Type	Bias Current Cable Accessory
Alias	42843A; Agilent 42843A; Keysight 42843A

Type: bias current cable

Family: 4284x accessories

Notes

Public electrical tables are sparse for this cable SKU; identity from Keysight/Agilent 4284x accessory listings. Confirm connector types and length on the unit; finer ratings belong on the companion bias source/fixture datasheets.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.