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**Data Sheet**

August 13, 2026

KEYSIGHT / AGILENT / HP

# Keysight / Agilent / HP 83400 Series SMA and DC Power Cable

The Keysight/Agilent/HP 83400 Series SMA and DC Power Cable provides RF and DC power connectivity for lightwave test and measurement instruments. This cable assembly integrates SMA RF connector and 3-pin female mini-XLR (TA-3F) DC power connector interfaces, engineered to minimize signal loss and deliver stable power to 83400 Series lightwave sources and receivers. The dual-function design eliminates the need for separate RF and power distribution, streamlining test setups in laboratory environments. RF and optical test configurations requiring simultaneous signal and power distribution User-provided external power supply with compatible TA-3F connector The modular design allows 83400 Series modules to be powered and controlled through a single interconnect point, reducing cable clutter and improving measurement repeatability in complex test architectures. Aumictech offers NIST-traceable



MODEL

**Keysight / Agilent /  
HP 83400 Series**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**83400 Series**

LISTING

<https://aumictechlabs.com/products/83400-series-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Keysight/Agilent/HP 83400 Series SMA and DC Power Cable provides RF and DC power connectivity for lightwave test and measurement instruments. This cable assembly integrates

SMA RF connector and 3-pin female mini-XLR (TA-3F) DC power connector interfaces, engineered to minimize signal loss and deliver stable power to 83400 Series lightwave sources and receivers. The dual-function design eliminates the need for separate RF and power distribution, streamlining test setups in laboratory environments.

**Technical Specifications**

**Connectors** RF interface: SMA DC power interface: 3-pin female mini-XLR (TA-3F)

**Electrical Performance** Optimized for minimal signal loss in RF paths Rated for reliable DC power delivery

**Part Number** DC Power Cable: 83400-60005

**Key Features** Integrated SMA and DC power connectivity in single cable assembly Durable construction for laboratory use Designed for accurate signal integrity and power delivery

**Typical Applications** Keysight/Agilent/HP 8702 Series Lightwave Component Analyzers 83400 Series lightwave source and receiver modules RF and optical test configurations requiring simultaneous signal and power distribution

**Compatibility & Integration** This cable supports operation with multiple power supply configurations: 8702x Lightwave Analyzer direct powering Agilent 11899A Probe Power Supply User-provided external power supply with compatible TA-3F connector The modular design allows 83400 Series modules to be powered and controlled through a single interconnect point, reducing cable clutter and improving measurement repeatability in complex test architectures.

## 83400SERIES Characteristics / Specifications

| PARAMETER              | VALUE                                              |
|------------------------|----------------------------------------------------|
| Model                  | 83400 Series cable                                 |
| Manufacturer           | Hewlett Packard / Agilent / Keysight               |
| Instrument Type        | SMA and DC Power Cable                             |
| Series                 | 83400 lightwave source accessories                 |
| Alias                  | 83400 Series; 83400 SMA DC cable                   |
| Function               | RF SMA modulation and DC power to 83400 source     |
| RF Connector Class     | SMA                                                |
| DC Function            | module DC power / bias                             |
| Parent Sources         | 83400A, 83402, 83403 class lightwave sources       |
| Parent Analyzer        | HP 8702 lightwave component analyzer class         |
| Host Modulation 83400A | 300 kHz to 3 GHz class                             |
| Host Wavelength 83400A | about 1300 nm Fabry-Perot class                    |
| Host Wavelength 83403A | about 1550 nm class                                |
| Later Sources          | 83402C / 83403C to 6 GHz modulation                |
| Fiber Parent           | 9/125 um single-mode on 83400 sources              |
| Not 834                | 83440 is O/E converter family                      |
| NotASource             | cable only                                         |
| Form                   | coaxial SMA plus DC power harness                  |
| Status                 | HP 83400 accessory                                 |
| Installation           | match 83400 series source rear/front power and SMA |
| Use                    | restore listed interconnect                        |
| Compatibility          | 83400 family sources                               |
| ESD                    | observe laser module ESD                           |
| Safety                 | laser remains in the source module                 |
| Documentation          | 83400 / 8702 source cable                          |

| PARAMETER      | VALUE                                                                                                                                                                                                                                      |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identification | 83400 series SMA and DC cable                                                                                                                                                                                                              |
| Duty           | as parent analyzer Notes Identity from HP 83400 series SMA and DC power cable listing for 83400 lightwave sources. Optical specs belong to the source module. Confirm SMA gender and DC connector versus the installed 83400A/83402/83403. |
| Bandwidth      | (typically 300 kHz to 3 GHz on 83400A), and connector options remain properties of the source module.                                                                                                                                      |

# 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                  | 83400 Series cable                             |
| Manufacturer           | Hewlett Packard / Agilent / Keysight           |
| Instrument Type        | SMA and DC Power Cable                         |
| Specifications         |                                                |
| PARAMETER              | VALUE                                          |
| Series                 | 83400 lightwave source accessories             |
| Alias                  | 83400 Series; 83400 SMA DC cable               |
| Function               | RF SMA modulation and DC power to 83400 source |
| Specifications         |                                                |
| PARAMETER              | VALUE                                          |
| RF Connector Class     | SMA                                            |
| DC Function            | module DC power / bias                         |
| Parent Sources         | 83400A, 83402, 83403 class lightwave sources   |
| Specifications         |                                                |
| PARAMETER              | VALUE                                          |
| Parent Analyzer        | HP 8702 lightwave component analyzer class     |
| Host Modulation 83400A | 300 kHz to 3 GHz class                         |
| Host Wavelength 83400A | about 1300 nm Fabry-Perot class                |
| Specifications         |                                                |
| PARAMETER              | VALUE                                          |
| Host Wavelength 83403A | about 1550 nm class                            |
| Later Sources          | 83402C / 83403C to 6 GHz modulation            |
| Fiber Parent           | 9/125 um single-mode on 83400 sources          |

### Specifications

| PARAMETER  | VALUE                             |
|------------|-----------------------------------|
| Not 83440  | 83440 is O/E converter family     |
| NotASource | cable only                        |
| Form       | coaxial SMA plus DC power harness |

### Specifications

| PARAMETER    | VALUE                                              |
|--------------|----------------------------------------------------|
| Status       | HP 83400 accessory                                 |
| Installation | match 83400 series source rear/front power and SMA |
| Use          | restore listed interconnect                        |

### Specifications

| PARAMETER     | VALUE                              |
|---------------|------------------------------------|
| Compatibility | 83400 family sources               |
| ESD           | observe laser module ESD           |
| Safety        | laser remains in the source module |

### Specifications

| PARAMETER      | VALUE                         |
|----------------|-------------------------------|
| Documentation  | 83400 / 8702 source cable     |
| Identification | 83400 series SMA and DC cable |
| Duty           | as parent analyzer            |

#### Notes

Identity from HP 83400 series SMA and DC power cable listing for 83400 lightwave sources. Optical specs belong to the source module. Confirm SMA gender and DC connector versus the installed 83400A/83402/83403.

### Available from Aumictech

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

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

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.