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Data Sheet

August 13, 2026

KEITHLEY

Keithley 7111-S

The Keithley 7111-S Shielded Cable is a high-quality, low-noise cable designed for use with sensitive electronic instruments. It features a shielded construction to minimize interference and ensure accurate measurements. Ideal for connecting Keithley instruments to test fixtures or other devices.



MODEL Keithley 7111-S	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 7111-S	LISTING https://aumictechlabs.com/products/7111-s-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 7111-S is a low-voltage, quad 1×10 single-pole Form C multiplexer card for the 7001 and 7002 switch mainframes. It combines a screw terminal connector card and relay card into a single assembly, enabling direct wiring of external test circuits while delivering the low contact potential and minimal offset current required for sensitive measurements. Four independent multiplexer banks can be interconnected or isolated via jumpers, and the card reconfigures as two independent 1×10 two-pole banks when needed. Technical Specifications Multiplex Configuration: Four independent 1×10 single-pole Form C banks; configurable as two 1×10 two-pole banks Connector Type: Screw terminals; accepts #16 AWG (0.092 inch O.D.) for up to 28 conductors per card, or #22 AWG (0.062 inch O.D.) for up to 88 conductors per card Signal Levels: 110 V DC, 1 A switched, 30 VA (resistive); 125 V RMS and 175 V AC peak, 1 A switched, 60 VA (resistive) Common Mode Voltage: 175 V peak, any pin to chassis Contact Life: 10⁸ closures cold switching; 10⁵ closures at maximum signal levels Channel Resistance: Less than 1 Ω per conductor Contact

Potential: Less than 500 nV per channel contact pair; less than 3 μ V typical per single contact
Offset Current: Less than 100 pA Actuation Time: 3 ms Isolation (Bank): Greater than $10^9 \Omega$, less than 25 pF Isolation (Channel to Channel): Greater than $10^9 \Omega$, less than 50 pF Crosstalk (1 MHz, 50 Ω load): Less than -40 dB Insertion Loss: Less than 0.1 dB below 1 MHz; less than 3 dB below 2 MHz (50 Ω source and load) Relay Drive Current: 16 mA per relay Key Features Screw terminal design permits direct external wiring without adapters Adjacent banks interconnect for expanded multiplexing configurations Jumper-selectable bank isolation from backplane Contact potential below 500 nV supports precision analog switching Form C architecture enables simultaneous make-before-break transitions Compatibility & Integration The 7111-S integrates directly with Keithley 7001 and 7002 mainframes via removable jumper connections to the analog backplane. Two cards cascade into a single 1×80 multiplexer through intercard backplane paths.

Features & description

From manufacturer datasheet

Features

- FormCversus Form A 7011 family

7111S Characteristics / Specifications

PARAMETER	VALUE
Model	7111-S
Manufacturer	Keithley Instruments
Instrument Type	Quad 1×10 multiplexer card screw terminal
Alias	7111-S; 7111S
Host mainframes	7001 and 7002
Channel count	40
Card configuration	multiplexer, four independent 1×10
Contact configuration	1 FormC Connector: screw terminal
Maximum voltage	110 V
Maximum current switched	1 A
Maximum power	60 VA
Contact potential	less than 500 nV
Offset current	less than 100 pA
Bandwidth class	2 MHz
Backplane	connection to analog backplane
Related FormAconnector	7011-C
Related FormAscrew	7011-S
Accessory screw board	7011-ST
Poles	single FormCversus 7011 two FormA Operating host: 7001 80-channel / 7002 400-channel class mainframes
Typical wire	field screw landing versus 96-pin DIN
Isolation family	70xx general purpose analog
Actuation family	millisecond class 70xx relays
Not 7011C	FormCscrew versus 2 FormADIN
Not 71	different solid-state 7015/7116 family
Form	7001/7002 plug-in

PARAMETER	VALUE
Use	40-channel FormCscanning Notes Specs from Keithley 7001/7002 switch-card selector guide (7111-S row). Confirm FormCversus 7011-S FormAbefore substituting cards. Finer path capacitance is in the 7111 instruction sheet if present on the unit.
Bandwidth	class: 2 MHz

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	
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Specifications

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Related FormAconnector	7011-C
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Specifications

PARAMETER	VALUE
Poles	single FormCversus 7011 two FormA Operating host: 7001 80-channel / 7002 400-channel class mainframes
Typical wire	field screw landing versus 96-pin DIN
Isolation family	70xx general purpose analog

Specifications

PARAMETER	VALUE
Actuation family	millisecond class 70xx relays
Not 7011C	FormCscrew versus 2 FormADIN
Not 7116	different solid-state 7015/7116 family

Form: 7001/7002 plug-in

Use: 40-channel FormCscanning

Notes

Specs from Keithley 7001/7002 switch-card selector guide (7111-S row). Confirm FormCversus 7011-S FormAbefore substituting cards. Finer path capacitance is in the 7111 instruction sheet if present on the unit.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.