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Data Sheet

August 13, 2026

KEITHLEY

Keithley 3791-KIT78-R

The Keithley 3791-KIT78-R is a connector kit designed for use with Keithley Series 3700A System Switch/Multimeter instruments. This kit provides the necessary connectors for establishing reliable and secure connections to the instrument, facilitating efficient data acquisition and testing. It includes various connector types to accommodate different signal and power requirements.



MODEL

Keithley 3791-KIT78-R

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3791-KIT78-R

LISTING

<https://aumictechlabs.com/products/3791-kit78-r-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 3791-KIT78-R is a connector assembly kit designed for building custom cables and harnesses compatible with Keithley Series 3700A System Switch/Multimeter instruments. The kit supplies two female 78-pin D-sub connectors with 156 solder-cup contacts, construct reliable interconnections for data acquisition and switching applications. Rated for 300V RMS / 300V DC and 5.0A maximum, this kit supports wire gauges up to 22 AWG. Assembly and maintenance require the Model 3791-CIT contact insertion and extraction tool. Technical Specifications Connector type: Female D-sub, 78-pin Contact type: Solder cup Kit contents: Two female D-sub connectors, 156 solder-cup contacts Maximum wire gauge: 22 AWG Maximum voltage rating: 300V RMS / 300V DC Maximum current rating: 5.0A Required assembly tool: Keithley 3791-CIT (not included) Key Features Solder-cup contact design enables custom cable termination Rated

for voltages exceeding 30V RMS - proper grounding and safety precautions required Both D-sub connector shells must connect to safety earth ground Suitable for applications requiring field assembly and maintenance Typical Applications Custom cable and harness assembly for Series 3700A systems Data acquisition and signal switching interconnections Field repair and reconfiguration of 78-pin switching modules Compatibility & Integration Fully compatible with Keithley Series 3700A System Switch/Multimeter platforms. Interfaces directly with Series 3700A plug-in cards featuring 78-pin connectors, including the 3720, 3723, 3724, and 3732 models. The 3791-CIT contact insertion and extraction tool is required for proper assembly and contact maintenance.

Features & description

From manufacturer datasheet

Features

- Two 78-pin female connectors per kit

3791KIT78R Characteristics / Specifications

PARAMETER	VALUE
Model	3791-KIT78-R
Manufacturer	Keithley / Tektronix
Instrument Type	78 pin female D-sub connector kit
Alias	3791-KIT78-R; 3791KIT78R
Connector gender	female D-sub
Pin count per connector	78
Connectors in kit	2
Solder cup contacts	156
Contact style	solder cup
Mate family	Series 3700A plug-in cards
Compatible 37	3720 multiplexer
Insertion tool	3791-CIT
Related 50 pin kit	3790-KIT50-R (two 50-pin, 100 contacts)
Related 104 pin kit	3792-KIT104-R for 3722
Related 104 pin female	3792-KIT104-R/F
Host mainframe class	3706A / 3706A-SNFP class
Function	custom cable and harness assembly
Notaswitch card	connector kit only
Electrical ratings	those of the mated 3700A card (see card data sheet)
Polarity	observe D-sub keying and card pinout
Assembly	solder-cup wiring, not crimp-only kit
Use with	3700A rear panel D-sub I/O
Spare contacts	156 cups for two complete shells
Documentation	Keithley 3700A accessories table Notes Identity and kit contents from Keithley Series 3700A accessories documentation. Do not invent pin-to-signal maps; use the 3720/3723/3724/3732 card pinout. Confirm 78-pin versus 50-pin or 104-pin card before assembling.

PARAMETER	VALUE
Sibling kits	3790-KIT50-R (50-pin) and 3792-KIT104-R (104-pin for 3722)

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	3791-KIT78-R
Manufacturer	Keithley / Tektronix
Instrument Type	78 pin female D-sub connector kit
Specifications	
PARAMETER	VALUE
Alias	3791-KIT78-R; 3791KIT78R
Connector gender	female D-sub
Pin count per connector	78
Specifications	
PARAMETER	VALUE
Connectors in kit	2
Solder cup contacts	156
Contact style	solder cup
Specifications	
PARAMETER	VALUE
Mate family	Series 3700A plug-in cards
Compatible 3720	3720 multiplexer
Compatible 3723	3723 card
Specifications	
PARAMETER	VALUE
Compatible 3724	3724 card
Compatible 3732	3732 matrix
Insertion tool	3791-CIT

Specifications

PARAMETER	VALUE
Related 50 pin kit	3790-KIT50-R (two 50-pin, 100 contacts)
Related 104 pin kit	3792-KIT104-R for 3722
Related 104 pin female	3792-KIT104-R/F

Specifications

PARAMETER	VALUE
Host mainframe class	3706A / 3706A-SNFP class
Function	custom cable and harness assembly
Notaswitch card	connector kit only

Specifications

PARAMETER	VALUE
Electrical ratings	those of the mated 3700A card (see card data sheet)
Polarity	observe D-sub keying and card pinout
Assembly	solder-cup wiring, not crimp-only kit

Specifications

PARAMETER	VALUE
Use with	3700A rear panel D-sub I/O
Spare contacts	156 cups for two complete shells
Documentation	Keithley 3700A accessories table

Notes

Identity and kit contents from Keithley Series 3700A accessories documentation. Do not invent pin-to-signal maps; use the 3720/3723/3724/3732 card pinout. Confirm 78-pin versus 50-pin or 104-pin card before assembling.

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.