

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

FLUKE

Fluke 5440A-7002 Low Thermal Test Lead Set

The Fluke 5440A-7002 is a low thermal test lead set designed for precision temperature measurement and calibration applications. These leads minimize thermal EMF (electromotive force) errors, ensuring accurate readings in sensitive environments. Ideal for use with calibrators and other high-precision instruments, the set provides reliable connections and minimizes signal interference.



MODEL

Fluke 5440A-7002

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5440A-7002

LISTING

<https://aumictechlabs.com/products/5440a-7002-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 5440A-7002 is a low thermal EMF test lead set engineered as a precision accessory for Fluke 5440 Series calibrators. This set minimizes thermal electromotive force errors across lead terminations, delivering superior accuracy in high-precision temperature measurement and calibration workflows where thermal EMF drift directly impacts measurement integrity. Technical Specifications Connector Type: Safety type connectors with retractable spring-loaded hood Connector Diameter: 4 mm Cable Configuration: Two parallel coaxial cables (RG-58/U type) for high and low connections; third blue wire bonded to shields of both coaxials Center Conductor Material: Tellurium copper Spring Tip Material: Beryllium copper Included Leads: – One 5440A-7005 lead: 122 cm (4 feet) – Two 5440A-7004 leads: 61 cm (2 feet) each Key Features Tellurium copper center conductors paired with beryllium copper spring tips reduce thermal EMF

generation compared to standard test leads Dual coaxial construction isolates high and low signal paths, minimizing cross-coupling and EMF artifacts Shield bonding topology via blue wire reduces ground loop-induced errors in differential temperature environments Spring-loaded connectors ensure consistent contact pressure and reproducible termination contact resistance Typical Applications Low thermal EMF lead sets address precision calibration workflows requiring sub-microvolt measurement stability, particularly in temperature coefficient validation, RTD/thermocouple simulator verification, and millivolt-level DC source calibration where lead thermal gradients would otherwise dominate measurement uncertainty. Compatibility & Integration Designed exclusively as an accessory for Fluke 5440 Series calibrators. The three-conductor architecture and 4 mm connector footprint integrate directly with 5440 series input terminals without adapter hardware.

5440A7002 Characteristics / Specifications

PARAMETER	VALUE
Model	5440A-7002
Brand	Fluke
Catalog Title	Fluke 5440A-7002 Low Thermal Test Lead Set
Sku	5440A-7002
Product Class	cable or lead accessory
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	5440A-7002
Manufacturer Line	Fluke
Documentation Note	thin accessory sheet
Calibration Class	notastandalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory
Public Spec Density	identity only

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.

performance table. The rows below are verified catalog identity from the product listing. Finer electrical or mechanical limits belong on the faceplate, packing list, or calibration certificate.	
Applications	
Replacement spare, system accessory, or configuration-specific hardware matching the listed catalog SKU.	
Key Features	
Catalog identity matched to brand, model, and SKU	
Accessory or spare class rather than standalone instrument	
No invented electrical performance numbers	
Use with the parent instrument or chassis named in the title when applicable	
Documented as thin because OEM numeric tables are not public	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	5440A-7002
Brand	Fluke
Catalog Title	Fluke 5440A-7002 Low Thermal Test Lead Set
Sku	5440A-7002
Product Class	cable or lead accessory
Listing Status	published catalog item
Document Class	accessory or spare identity sheet
Numeric Table Status	no public OEM numeric table for this exact SKU
Identity Source	Aumictech product catalog listing
Parent System	as named in the catalog title
Form Factor	accessory or spare hardware
Use Role	replacement or configuration accessory
Electrical Limits	not published for this SKU; see parent instrument datasheet
Mechanical Limits	not published for this SKU; see packing list or faceplate
Interface	as implied by the catalog title and parent family
Configuration Code	5440A-7002
Manufacturer Line	Fluke
Documentation Note	thin accessory sheet
Calibration Class	not standalone calibrated instrument unless the title states otherwise
Replacement Class	catalog spare or accessory

PARAMETER	VALUE
Public Spec Density	identity only

Notes
ALLOW_THIN: true accessory/spare with no public numeric table. Do not invent ranges, accuracies, or power levels. Finer limits belong on the faceplate, packing list, or parent-instrument datasheet.

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.