

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

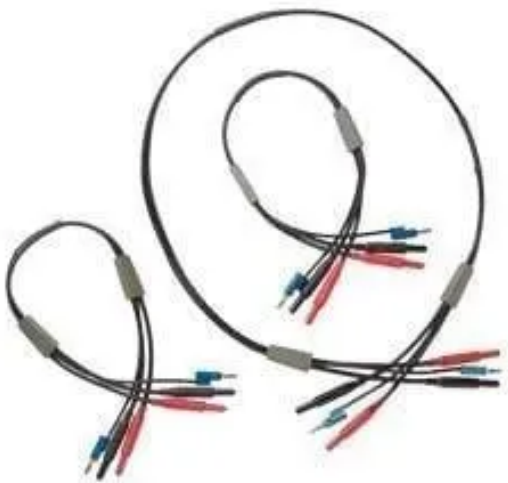
Data Sheet

August 12, 2026

FLUKE

Fluke 5440A Low Thermal EMF Test Lead Set

The Fluke 5440A Low Thermal EMF Test Lead Set is engineered for precision measurement applications where thermal electromotive force minimization is critical. This shielded, two-conductor cable assembly delivers sub-microvolt thermal performance and extreme leakage resistance, making it ideal for calibration, metrology, and sensitive electronic testing with Fluke 5440 Series calibrators. Compatibility & Integration Designed exclusively as an accessory for Fluke 5440 Series calibrators. Lead lengths support both bench proximity and remote test point access. Aumictech offers NIST-traceable calibration and repair for the Fluke 5440A. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Fluke 5440A is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.



MODEL

Fluke 5440A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5440A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 5440A Low Thermal EMF Test Lead Set is engineered for precision measurement applications where thermal electromotive force minimization is critical. This shielded, two-conductor cable assembly delivers sub-microvolt thermal performance and extreme leakage resistance, making it ideal for calibration, metrology, and sensitive electronic testing with Fluke 5440 Series calibrators. Technical Specifications Electrical Performance Thermal EMF: Less than 1.3 μV per $^{\circ}\text{C}$ (measured at Tellurium Copper Alloy 145 five-way binding post, half hard) Leakage

Resistance: Greater than $1.0 \times 10^{13} \Omega$ per 100 ft at 45 °C and 75% R.H. (between conductors or between conductor and shield) Cable Assembly Configuration: Two 24 inch (61 cm $\pm$ 2.5 cm) short leads and one 48 inch (122 cm $\pm$ 2.5 cm) long lead Cable Type: Two-conductor shielded (Belden 8719 or RG-58/U equivalent) Signal Conductors: 16 AWG tinned copper, 19 $\times$ 29 stranding (5440A-7003 model) or AWG 20 stranded tinned conductors (5440A-7002 set) Connector Options Spade Lug Configuration (5440A-7003): Material: Copper spade lug with gold plating over silver, nickel-free Terminal Size: 1/4 inch (6.35 mm) diameter Safety Type Configuration (5440A-7002 set, 5440A-7004/7005 components): Connector Diameter: 4 mm Center Conductor: Tellurium copper Spring Tip: Beryllium copper Feature: Retractable spring-loaded hoodKey Features Dedicated shielded construction with separate guard/shield connection per lead Thermal EMF specification below 1.3 $\mu\text{V}/^\circ\text{C}$ ensures drift-free measurements across temperature ranges Ultra-high leakage resistance ($>10^{13} \Omega/100 \text{ ft}$) eliminates measurement corruption in high-impedance circuits Multiple connector styles accommodate varied terminal geometries on precision instruments Tinned copper conductors resist oxidation and corrosionTypical Applications DC precision calibration and verification High-impedance metrology measurements Thermocouple and low-level voltage testing Temperature-sensitive electronic characterizationCompatibility & Integration Designed exclusively as an accessory for Fluke 5440 Series calibrators. Lead lengths support both bench proximity and remote test point access.

Features & description

From manufacturer datasheet

Technical Specifications

Thermal EMF: Less than 1.3 μV per $^{\circ}\text{C}$ (measured at Tellurium Copper Alloy 145 five-way binding post, half hard) Leakage Resistance: Greater than $1.0 \times 10^{13} \Omega$ per 100 ft at 45 $^{\circ}\text{C}$ and 75% R.H. (between conductors or between conductor and shield) Cable Assembly Configuration: Two 24 inch (61 cm $\pm$ 2.5 cm) short leads and one 48 inch (122 cm $\pm$ 2.5 cm) long lead Cable Type: Two-conductor shielded (Belden 8719 or RG-58/U equivalent) Signal Conductors: 16 AWG tinned copper, 19 $\times$ 29 stranding (5440A-7003 model) or AWG 20 stranded tinned conductors (5440A-7002 set) Connector Options Spade Lug Configuration (5440A-7003): Material: Copper spade lug with gold plating over silver, nickel-free Terminal Size: 1/4 inch (6.35 mm) diameter Safety Type Configuration (5440A-7002 set, 5440A-7004/7005 components): Connector Diameter: 4 mm Center Conductor: Tellurium copper Spring Tip: Beryllium copper Feature: Retractable spring-loaded hood

Key Features

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Fluke 5440A — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Fluke 5440A. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

Fluke 5440A price

This Fluke 5440A is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Fluke 5440A calibration cost

NIST-traceable calibration for the Fluke 5440A is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

DC precision calibration and verification High-impedance metrology measurements Thermocouple and low-level voltage testing Temperature-sensitive electronic characterization Compatibility & Integration Designed exclusively as an accessory for Fluke 5440 Series calibrators. Lead lengths support both bench proximity and remote test point access.

Unit notes

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Technical Specifications

Electrical Performance

Thermal EMF: Less than 1.3 μV per $^{\circ}\text{C}$ (measured at Tellurium Copper Alloy 145 five-way binding post, half hard)

Leakage Resistance: Greater than $1.0 \times 10^{13} \Omega$ per 100 ft at 45 $^{\circ}\text{C}$ and 75% R.H. (between conductors or between conductor and shield)

Cable Assembly Configuration: Two 24 inch (61 cm $\pm$ 2.5 cm) short leads and one 48 inch (122 cm $\pm$ 2.5 cm) long lead

Cable Type: Two-conductor shielded (Belden 8719 or RG-58/U equivalent)

Signal Conductors: 16 AWG tinned copper, 19 $\times$ 29 stranding (5440A-7003 model) or AWG 20 stranded tinned conductors (5440A-7002 set)

Connector Options

Spade Lug Configuration (5440A-7003):

Material: Copper spade lug with gold plating over silver, nickel-free

Terminal Size: 1/4 inch (6.35 mm) diameter

Safety Type Configuration (5440A-7002 set, 5440A-7004/7005 components):

Connector Diameter: 4 mm

Center Conductor: Tellurium copper

Spring Tip: Beryllium copper

Feature: Retractable spring-loaded hood

Key Features

Dedicated shielded construction with separate guard/shield connection per lead

Thermal EMF specification below 1.3 $\mu\text{V}/^{\circ}$

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.

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Compatibility & Integration Designed exclusively as an accessory for Fluke 5440 Series calibrators. Lead lengths support both bench proximity and remote test point access.

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Applications

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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
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<https://aumictechlabs.com>

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Generated August 12, 2026

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