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FLUKE®

# Specification Sheet

# Model 5440A-7002

## Low Thermal Test Lead Set

## INTRODUCTION

This specification sheet lists the electrical and mechanical specifications of the 5440A-7002 Low Thermal Test Lead Set. The set includes two 5440A-7004 test leads and one 5440A-7005 test lead. The Low Thermal Test Leads are accessories for the 5440 Series calibrators. These test leads have lower thermal emf than standard test leads, minimizing the emf caused by the temperature difference between the ends of the leads.

## MECHANICAL SPECIFICATIONS

**Length** ..... 5440A-7004: 24 in ± 1 in

5440A-7005: 48 in ± 1 in

**Connector Size** ..... 4 mm diameter

**Connector Style** ..... Safety type, with a retractable spring-loaded hood. The connector engages with a wiping action.

**Connector Materials**

MAIN BODY ..... Nylon

RETRACTABLE HOOD ..... Nylon

STRAIN RELIEVER ..... ABS (for high leakage resistance between the center conductor and the connector shield)

CENTER CONDUCTOR ..... Tellurium copper

SPRING TIP ..... Beryllium copper

GUARD CONNECTOR ..... Nylon; stackable banana plug construction

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## ELECTRICAL SPECIFICATIONS

**Thermal EMF** ..... Less than 1.3 µV per °C when measured while engaged in a five-way binding post of Tellurium Copper Alloy 145, half hard (John Fluke PN 637892 or equivalent)

**Leakage Resistance Between Center Conductor and Shield** ..... Greater than $1.0 \times 10^{13}$ ohms at 45°C and 75% R.H.

**Cable Type** ..... RG-58/U type with AWG 20 stranded and tinned center conductor (19 x .0071 in) (Belden 8262 or equivalent)

**Safety Rating**..... Designed to meet UL 1244 to 1100V ac


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