

5730A-7003Low Thermal Test Lead Set

Specification Sheet

Introduction

This document lists the electrical and mechanical specifications of the 5730A-7003 Low Thermal Test Lead Set (the Product). Two test lead cables are included. Each lead is a shielded, two-conductor cable with a separate guard/shield connection. The Product uses thermal emf material connectors that are lower than that used by standard test leads to minimize emf caused by the temperature difference between the ends of the leads.

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To prevent possible electrical shock, fire, or personal injury:

- Do not use test leads if they are damaged. Examine the test leads for damaged insulation, exposed metal, or if the wear indicator shows.
- Do not use the Product if it is damaged.
- Disable the Product if it is damaged.
- Use the Product only as specified, or the protection supplied by the Product can be compromised.

Specifications

Mechanical Specifications

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Two Test Leads	48 in ±1 in (122 cm ±2.5 cm)
Outside Diameter	0.3 in (7.6 mm) diameter
Connector Style	Spade lug sized for 1/4 in (6.35 mm) terminals
Connector Materials	Copper spade lug with gold plating over silver plating (contains no nickel)
Guard/Shield Connector	Nylon. Stackable banana plug construction, color is blue
Guard/Shield Connector Materials	Brass and beryllium copper with nickel plating

Cable Specifications

Cable Type	Two conductor shielded cable (Belden 8719 or equivalent)
Signal Conductors	. 16 AWG tinned copper with 19 x 29 stranding
Guard/Shield Conductor	. 18 AWG tinned copper
Cable Color	Outer jacket dark gray

Electrical Specifications

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	<1.3 μ V per °C when measured while engaged in a five-way binding post of Tellurium Copper Alloy 145, half hard (Fluke PN 637892 or equivalent)
Leakage resistance between two conductors	.>1.0 x $10^{13}\Omega$ per 100 ft at 45 °C and 75 % R.H.
Leakage resistance between either conductor and shield	.>1.0 x $10^{13}\Omega$ per 100 ft at 45 °C and 75 % R.H.
Leakage resistance between shield and outer surface of lacket	.>1.0 x 10^{14} Ω at any point, at 45 °C and 75 % R.H.

How to Contact Fluke Calibration

To contact Fluke Calibration, call one of the following telephone numbers:

• Technical Support USA: 1-877-355-3225

• Calibration/Repair USA: 1-877-355-3225

Canada: 1-800-36-FLUKE (1-800-363-5853)

• Europe: +31-40-2675-200

Japan: +81-3-6714-3114

• Singapore: +65-6799-5566

• China: +86-400-810-3435

• Brazil: +55-11-3759-7600

Anywhere in the world: +1-425-446-6110

To see product information and download the latest manuals or manual supplements, visit Fluke Calibration's website at www.flukecal.com.

To register your product, visit http://flukecal.com/register-product.