

LTC9901A-X

Low Thermal EMF Test Leads

Applications

The LTC9901A-X series test leads are developed for connecting of standard resistors or calibrators. They are designed to minimize influence of thermal EMF or external fields.

To fit for different applications, versions with two or four wires are available. The wires are twisted in pairs. The spade lugs fit to standard 4mm binding

posts which will be found at most precision instruments or calibrators.

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Dimensions

Length: 1m +/- 5 cm

Connections: Spade lugs for 4mm binding posts at signal wires or 4mm low thermal plugs
4mm gold plated plug at guard wire

Materials used

Cables: RG 178 B/U with PTFE inner isolation (for maximum isolation resistance and minimum leakage), highly flexible

Inner wire from silver plated copper

Spade lugs: directly gold plated cable shoes made from tellurium copper

The plating is attached directly without using a nickel coating to achieve a minimal thermal EMF effect. The low mass of the cable shoes reduces thermal EMF even further.

Guard-Connection: Connector, stackable. Gold plated contacts for minimum resistance and high count of connection cycles possible

Construction

Cable: Wires are color coded on both ends.
twisted pair wires with common shielding
strain relieves at both ends and at the spade lugs



Specifications

Isolation resistance:	greater than $1.0 * 10^{14}$ Ohms
Operating Voltage:	less than 300V rms
Test Voltage:	1kV rms (50 Hz / 1 min)
Flammability:	IEC 60332-3
Cable Type:	RG 178 B/U 50Ω with 0.31mm inner conductor

Available Types

LTC 9901A-2:	Test Leads 2 wires with low thermal spade lugs and common guard
LTC 9901A-4:	Test Leads 4 wires with low thermal spade lugs and common guard
LTC 9901A-2p:	Test Leads 2 wires with 4mm Low Thermal plugs and common guard
LTC 9901A-4p:	Test Leads 4 wires with 4mm Low Thermal plugs and common guard

Other connectors or mixed configuration available on request

