

Model 2107-4 and Model 2107-30 Low-Thermal Input Cables with Spade Lugs

A Model 2107 is an input cable for the Model 2182 Nanovoltmeter. The cable assembly is terminated with a LEMO connector on one end and four copper spade lugs on the other. The Model 2107-4 (which is a supplied accessory for the Model 2182 Nanovoltmeter) is 4 ft in length, and the Model 2107-30 is 30 ft in length.

Specifications

Length: 2107-4 1.2m (4 ft)
2107-30 9.1m (30 ft).

Connector Isolation (any conductor to shield): >10G Ω .

Capacitance (any conductor to shield): <35pF/ft.

Installation Category: I.

Maximum Ratings: 350V peak, 1A.

Operating Temperature: 0° to 70°C.

Storage Temperature: -40° to +70°C.

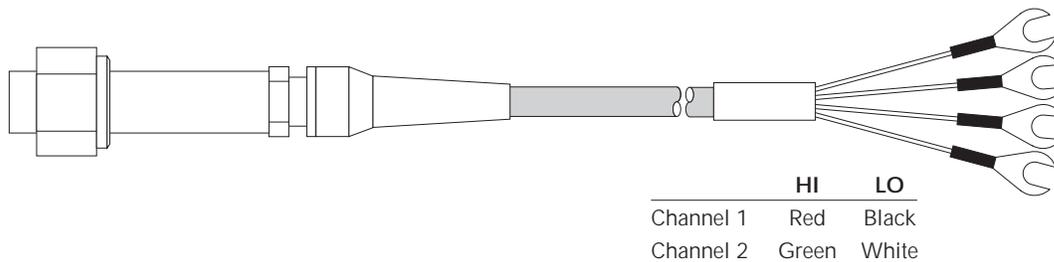
Input Terminal Cleaning

Before connecting the input cable to the Model 2182, clean the copper contacts of the LEMO connectors using DeoxIT D100L deoxidizing solution as follows:

NOTE *The following cleaning procedure must be repeated whenever the cable is disconnected from the Model 2182 for an extended period of time. A bottle of DeoxIT is supplied with the Model 2182 Nanovoltmeter.*

1. Turn off the Model 2182 and, at the rear panel, disconnect the line cord and any other cables or wires connected to the instrument.
2. Stand the Model 2182 on end such that the front panel is facing up.
3. Apply one drop of DeoxIT to each of the four contacts of the LEMO input connector on the Model 2182. You can use a clean wire (such as a resistor lead) to carry a drop of the solution from the bottle of DeoxIT to the connector.
4. Wipe off any excess DeoxIT using a clean cloth.
5. To clean the contacts of the input cable, connect and disconnect it to the Model 2182 several times to spread the DeoxIT around.

NOTE *Refer to the Model 2182 User's Manual for details on making connections to DUT.*



WARNING

To avoid a shock hazard and possible instrument damage, do not use this product to measure voltages exceeding 120VDC.

WARNINGS

1. These probe tips should only be used by qualified personnel who recognize shock hazards and are familiar with the safety precautions required to avoid possible injury.
2. Do not exceed the maximum signal levels of the accessory or the attached instruments, as defined in the specifications and operating information.
3. Inspect the probe tips, lead insulation, and insulating sheaths for wear, cracks, or breaks before each use.
4. For maximum safety, never touch or change the connections when power is applied to the circuit under test. Always turn off test system power and discharge all capacitors before connecting or disconnecting the probe tips.
5. To prevent voltages from being exposed or connections from shorting together, make sure the probe tips and test leads are properly connected before applying power.