# **Typical Lead Connections**

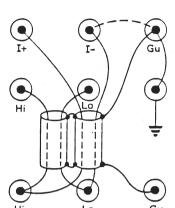
## **Voltage and Resistance Outputs**

Screened 4-wire Connection.

Alternative using Twin-axial cable.

On 100V/1000V Ranges, Ground the Lo line for Safety.

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## **Current Outputs**

### **Simple 2-wire Connection**

Use for the majority of applications where:

The E-M environment is 'quiet'.

External common-mode is insignificant. Use for measurements in the following ranges:

Current

DCI > 1mAACI > 100mA

Frequency F < 5kHz

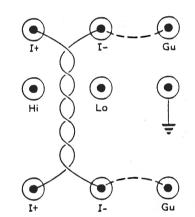
Local Sense selected automatically.

Select Local Guard.

Keep leads as short as possible, (not longer than 1 meter - twisted pair is preferable).

**NOTE**: Refer also to reactive load specifications in section 6.

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Local Guard

Local Guard

#### Screened 2-wire Connection -

Use where:

Sensitive measurements are being made.

The E-M environment is relatively 'noisy'.

External common-mode is significant.

Use for measurements in the following ranges: Current

DCI >  $9\mu$ A

 $ACI > 9\mu A$ 

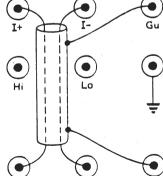
Frequency F < 5kHz

Local Sense selected automatically. Select Local Guard.

Keep leads as short as possible, (not longer than 1 meter -

Co-ax. or Twin-ax. is preferable).

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Local Guard

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Remote Guard