

How to choose the best test probe for your job?

IEC 61010 electrical measurement category ratings for test tools

Make sure that your accessory ratings meet or exceed the rating of your measurement environment.

Measurement category	In brief	Examples
CAT IV	Three-phase at utility connection, any outdoor mains conductors	<ul style="list-style-type: none"> Refers to the “origin of installation,” i.e., where low-voltage connection is made to utility power Electricity meters, primary overcurrent protection equipment Outside and service entrance, service drop from pole to building, run between meter and panel Overhead line to detached building, underground line to well pump
CAT III	Three-phase distribution, including single-phase commercial lighting	<ul style="list-style-type: none"> Equipment in fixed installations, such as switchgear and polyphase motors Bus and feeder in industrial plants Feeders and short branch circuits, distribution panel devices Lighting systems in larger buildings Appliance outlets with short connections to service entrance
CAT II	Single-phase receptacle connected loads	<ul style="list-style-type: none"> Appliance, portable tools, and other household and similar loads Outlet and long branch circuits <ul style="list-style-type: none"> Outlets at more than 10 meters (30 feet) from CAT III source Outlets at more that 20 meters (60 feet) from CAT IV source

Patch cords

Patch cords connect two test points or two test instruments or accessories together.

TL932 Patch Cords (90 cm)

One pair (red, black) multi-stacking banana plug patch cords, 90 cm (35.4 in) long.

- Nickel-plated, 4 mm (0.16 in) banana plugs
- 90 cm long PVC insulated leads
- 30 V rms or 60 V dc, 15 A

TL930 Patch Cords (60 cm)

One pair (red, black) multi-stacking banana plug patch cords, 61 cm (24 in) long.

- Nickel-plated, 4 mm (0.16 in) banana plugs
- 61 cm long PVC insulated leads
- 30 V rms or 60 V dc, 15 A

TL935 Patch Cords (60 cm, 90 cm, 120 cm)

Three sets (red and black pairs) of multi-stacking banana plug patch cords in different lengths.

- Nickel-plated, 4 mm (0.16 in) banana plugs
- 60 cm, 90 cm, and 120 cm (23.6 in, 35.4 in, and 47.2 in) long PVC insulated leads
- 30 V rms or 60 V dc, 15 A

TL940 Mini-Hook Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and mini-hooks.

- Mini-hooks attach to component leads up to 1.5 mm diameter
- 90 cm long PVC insulated leads
- 30 V rms or 60 V dc, 3 A

TL950 Mini-Pincer Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and mini-pincers.

- Mini-pincers open to 2.3 mm
- 90 cm long PVC insulated leads
- 30 V rms or 60 V dc, 3 A

TL960 Micro-Hook Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and micro-hooks.

- Micro-hooks attach to component leads up to 1 mm diameter
- 90 cm long PVC insulated leads
- 30 V rms or 60 V dc, 3 A

TL970 Hook and Pincer Set

- TL940 Mini-Hook Test Lead Set
- TL950 Mini-Pincer Test Lead Set
- TL960 Micro-Hook Test Lead Set