

TECHNICAL DATA

# Fluke TL175-HV CAT III 1500 V TwistGuard™ Test Leads



CAT III 1500 V and CAT IV 1000 V Rated

Enhances safety with adjustable tip guard, minimizing arc flash risk

Designed for comfortable handling, reducing user fatigue

The Fluke TL175-HV CAT III 1500 V TwistGuard™ Test Leads are designed specifically for solar and other applications requiring higher voltage testing and measurement. These leads are engineered for use by solar technicians, commercial, and industrial electricians, and meet the stringent CAT III 1500 V and CAT IV 1000 V safety standards. They feature patented TwistGuard™ technology and the WearGuard™ lead wire wear indicator for enhanced safety and durability.

#### **Key Features:**

- **CAT III 1500 Voltage Rating:** Designed to meet CAT III 1500 V and CAT IV 1000 V standards, suitable for solar photovoltaic (PV) installation technicians and maintenance professionals who work in solar energy systems and other higher voltage applications.
- TwistGuard™ Technology: Extendable tip guard for enhanced safety. The adjustable tip guard can be retracted for maximum accessibility or extended for increased safety, reducing the risk of arc flash.
- **Superior Flexibility:** Constructed with double layers of flexible silicone insulation, which remains pliable even in cold weather, preventing cracks and enhancing durability.
- **Heavy-Duty Performance:** Engineered for robust performance in demanding environments to ensure long-lasting reliability, tested beyond 30,000 bends without failure.
- **Universal Compatibility:** Equipped with shrouded 4 mm banana plugs, compatible with most digital multimeters and other measurement instruments.
- **Ergonomic Design:** Designed for comfortable handling and ease of use, reducing user fatigue during extended testing periods.

#### **Applications:**

- **Solar Energy Systems:** Ideal for testing and maintenance of photovoltaic (PV) installations, ensuring safe and accurate measurements of higher voltage solar arrays.
- **Commercial Electrical Systems:** Suitable for electricians working on higher voltage installations in commercial buildings, providing safety and reliability in testing power distribution systems.



- Industrial Electrical Systems: Suitable for electricians working on complex higher voltage installations in industrial plants, providing safety and reliability in testing and maintaining power distribution networks.
- AC/DC voltage measurement
- AC/DC current measurement
- Resistance testing
- · Insulation testing with insulation resistance meter

#### **Safety Information**

- **CAT II 1500 V:** Suitable for testing household outlets and circuits, such as appliances or portable tools.
- **CAT III 1500 V:** Suitable for distribution level and fixed installations, covering equipment in fixed installations like switchgear and distribution boards.
- **CAT IV 1000 V:** Suitable for testing at the origin of the installation, such as the electricity meter or primary overcurrent protection device.



### Specification

Safety Ratings	IEC 61010-031, CAT II 1500 V, CAT III 1500 V, CAT IV 1000 V
Current Measurement	10 A maximum
Insulation	Double insulated silicone wire
Lead Length	1.5 meters (5 feet)
Environmental Ratings	-20 °C to 55 °C (-4 °F to 131 °F), 90 % Relative Humidity, Altitude 2000 m (6,562 ft), Pollution Degree 2

## **Ordering Information**

TL175-HV CAT III 1500V TwistGuard™ Test Leads

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