

# Utility Test Lead Sets



## **UTILITY LEAD KIT #1:**

Set of 2, 5 ft color-coded (red/black) silicone insulated safety leads (4mm right-angle banana plug and 4mm straight screw-on banana plug) screw-on alligator clips and pencil probes.

**Cat. #2152.10**



## **UTILITY LEAD KIT #2:**

Set of 2, 5 ft color-coded (red/black) silicone insulated safety leads (4mm right-angle banana plug and 4mm straight screw-on banana plug) screw-on alligator clips, pencil probes and five spaded lugs.

**Cat. #2152.11**



## **UTILITY LEAD KIT #3:**

Set of 2, 5 ft color-coded (red/black) silicone insulated safety leads (4mm right-angle banana plug and 4mm straight screw-on banana plug) screw-on alligator clips, pencil probes, grip probes and five spaded lugs.

**Cat. #2152.12**



## **UTILITY LEAD KIT #4:**

Set of 2, 5 ft color-coded (red/black) silicone insulated safety leads (4mm right-angle banana plug and 4mm straight screw-on banana plug) screw-on alligator clips and grip probes.

**Cat. #2152.13**



## **UTILITY LEAD KIT #5:**

Set of 2, 5 ft color-coded (red/black) silicone insulated safety leads (4mm right-angle banana plug and 4mm straight screw-on banana plug) screw-on alligator clips, pencil probes and grip probes.

**Cat. #2152.14**



## **SET OF LEADS:**

Set of 2, 5 ft color-coded (red/black) silicone insulated safety leads (4mm right-angle banana plug and 4mm straight screw-on banana plug).

**Cat. #2152.15**



## **SET OF ALLIGATOR CLIPS:**

Set of 2, color-coded (red/black) screw-on alligator clips.

**Cat. #2152.16**



## **SET OF PENCIL PROBES:**

Set of 2, color-coded (red/black) screw-on pencil probes.

**Cat. #2152.17**



## **SET OF GRIP PROBES:**

Set of 2, color-coded (red/black) screw-on grip probes.

**Cat. #2152.18**

**NOTE:** Test leads, alligator clips and pencil probes are **15A, 1000V CAT IV** safety rated. Grip probes are **5A, 600V CAT IV** safety rated.

# Utility Test Lead Set

## Safety Datasheet

Thank you for purchasing an AEMC Utility Test Lead set.

For best results from your instrument and for your safety, read and understand this safety datasheet carefully and comply with the precautions for use. Keep this safety sheet for your records.

### Meanings of symbols used



#### CAUTION! Risk of Danger!

Indicates a WARNING and that the operator must refer to the datasheet for instructions before operating in all cases where this symbol is marked.



This marking indicates compliance with the European directives « Low Voltage » (2006/95/CE).



Double insulation protected



In the European Union, this product is subject to a separate collection system for recycling electrical and electronic components in accordance with directive WEEE 2002/96/EC

### Technical specifications

Maximum current: 15A for Leads, Alligator Clips and Probe Tips

Maximum current: 5A for Grip Probes

Maximum Voltage - Measurement category: 1000V CAT IV for Leads, Alligator Clips and Probe Tips

Maximum Voltage - Measurement category: 600V CAT IV for Grip Probes

Pollution degree: 2

### Environmental specifications

Temperature min / max: -20°C / 48°C (40°C if current measurement)

Humidity: 80% up to 31°C (decreasing linearly to 50% at 40°C)

Altitude: 2000 m

### Precautions for use

These safety instructions must be respected to assure the personal safety and the environment of use. If you do not comply with them, there is a risk of electric shock, explosion or fire.

If you use these leads or accessories in a way not specified or without respecting the basic safety rules, the protection that they offer may be compromised, thus placing you in danger.



#### ONLY USE WITH FACTORY SCREW-IN ACCESSORIES

- All accessories must be completely screwed-in properly.
- The safety of any system which may include these leads or accessories is the responsibility of the assembler of the system.
- Each time before use, always check that the insulation of the leads or accessories is in good condition. Any element whose insulation is damaged (even partially) must be removed from use and scrapped. A change of color of the insulating material is an indication of deterioration.
- Voltage, current and installation category in normal conditions are marked on leads and accessories. Respect these values. These values correspond for use at an altitude lower than 2000 m with a pollution degree of no greater than 2.
- Use specific individual safety protections when hazardous live parts can be accessible in the installation where the measurement is performed



**The use of a measurement instrument, a lead or an accessory with a lower category or voltage downgrades the use of the assembly (instrument + lead + accessory) to the lowest category and/or operating voltage.**

### Measurement categories:

**CAT II:** Measurement category II is for measurements performed on circuits directly connected to the low voltage installation

*Examples: measurements on household appliances and portable tools.*

**CAT III:** Measurement category III is for measurement performed in the building installation

*Examples: distribution boards, circuit-breakers, machine or industrial equipment with permanent connection to the fixed installation.*

**CAT IV:** Measurement category IV is for measurements performed at the source of the low-voltage installation.

*Example: meters and measurements on primary overcurrent protection devices and ripple control units.*

### Cleaning

- Disconnect the leads or the test accessories
- Use a soft cloth, dampened with soapy water. Rinse with a damp cloth and dry rapidly with a dry cloth or forced air. Do not use alcohol, solvents, or hydrocarbons.
- Do not modify the leads or accessories. Any non-compliant repairs can cause risks of electric shock or burns.

#### Contact:

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