Designation: Sharp Steel Tip Probe Body w/ 4 mm Banana (female) Jack.

Applications: measuring of voltages up to 1000 V on contacts which are small, difficult to access, remote, coated with oxidation, paint, dust, enamel, ...

Sharp steel tip to scrape coatings.

Voltage and current protection markings.

The 4 mm banana female connection complies with the 4 mm banana plugs of most of the worldwide most famous manufacturers.

Dimensions in millimeters.
Designation: Sharp Steel Tip Probe Body w/ 4 mm Banana (female) Jack.

Electrical safety


These specifications come from the creepage distances, clearances, accessible parts, and solid insulation of the product. And the considered specifications of the environment are:
- pollution degree, 1 or 2 or 3;
- relative humidity, 80 % maximum for temperatures up to 31 °C decreasing linearly to 50 % relative humidity at +40 °C;
- temperature range, +5 °C to +40 °C;
- indoor use; and
- altitude, 2000 m maximum.

Barrier. Keep behind this barrier to operate safely the product while connecting to hazardous live voltages (more than 33 V AC and 70 V DC).

Operating temperature range

-20 °C min., +80 °C maxi. (please see above too).

Protection against fire

According to EN / IEC 61010-031:2008. It is compatible with the requirements of protection against the spread of fire and resistance to heat by its basic insulation.

Conformity

- European Directive "RoHS" 2011/65/EU.

Environment

- "RoHS" compliant, Pb ≤ 4 % in conductor, Pb ≤ 0.1 % in insulator, Hg ≤ 0.1 %, Cr VI ≤ 0.1 %, Cd ≤ 0.01 %, PBB ≤ 0.1 %, and PBDE ≤ 0.1 %.
- REACH compliant, no substances from the candidate list of SVHC for authorisation at mass concentrations greater than 0.1 %.

Materials

Conductors: brass and steel. Insulators: please contact us.

Colors

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<th>Black</th>
<th>Red</th>
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<tr>
<td>Colors</td>
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Weight

0.019 kg.

Reliability benchmark

Year of 1st placing on the market 1994.

Packaging

One piece per bag.

GLOSSARY:

ACCESSIBLE. Able to be touched with a standard test finger or test pin.

BASIC INSULATION. Insulation of hazardous live parts which provides basic protection.

CAT II. Measurement or overvoltage category II. For measurement performed on equipment connected to the building wiring.

CAT III. Measurement or overvoltage category III. For measurement performed on equipment connected to part of a building wiring installation.

CAT IV. Measurement or overvoltage category IV. For measurement performed on/ equipment connected to the origins of the electrical supply to a building.

CLEARANCE. Shortest distance in air between two conductive parts.

CREEPAGE DISTANCE. Shortest distance along the surface of a solid insulating material between two conductive parts.

DOUBLE INSULATION. Insulation comprising both BASIC INSULATION and SUPPLEMENTARY INSULATION.


ETX. Solid protection to prevent fingers touch according to the European / international standard EN / IEC 60529.

"FUSP". European Directive 2008/95/EC on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits. (Usually called the Low Voltage Directive.)

NF C 93-440-1086. French standard regarding one pole plugs, sockets and safety assemblies diameter 8 mm and specify the interchangeability dimensions of plugs and sockets.

OVERVOLTAGE CATEGORY. Numerical defining a TRANSIENT OVER-VOLTAGE condition.

POLLUTION. Addition of foreign matter, solid, liquid or gaseous (ionized gases), that may produce a reduction of dielectric strength or surface resistivity.

POLLUTION DEGREE. Numerical indicating the level of POLLUTION that may be present in the environment.

POLLUTION DEGREE 1. No POLLUTION or only dry, non-conductive POLLUTION occurs, which has no influence.

POLLUTION DEGREE 2. Only non-conductive POLLUTION occurs except that occasionally a temporary conductivity caused by condensation is expected.

POLLUTION DEGREE 3. Conductive POLLUTION occurs, or dry, non-conductive pollution occurs which becomes conductive due to condensation which is expected.

REINFORCED INSULATION. Insulation which provides protection against electric shock in the event of a failure of BASIC INSULATION.

REPLACEMENT. Short duration overvoltage of a low millisecond or less, oscillatory or non-oscillatory, usually highly damped...