

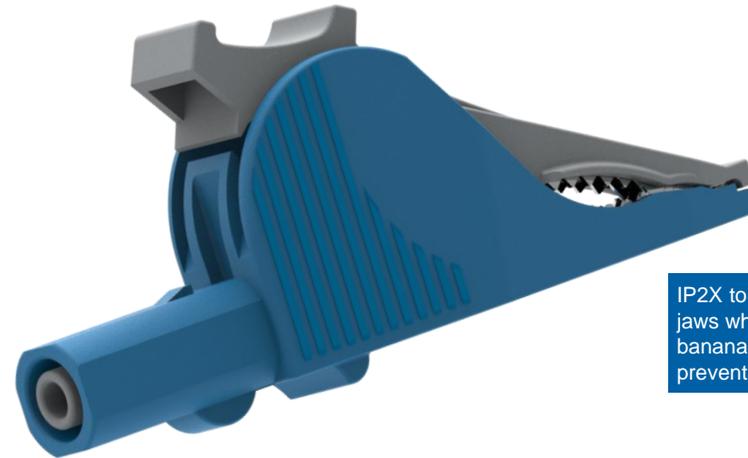
5066-IEC

Designation : Alligator Clip w/ 4 mm Banana (female) Jack (socket).

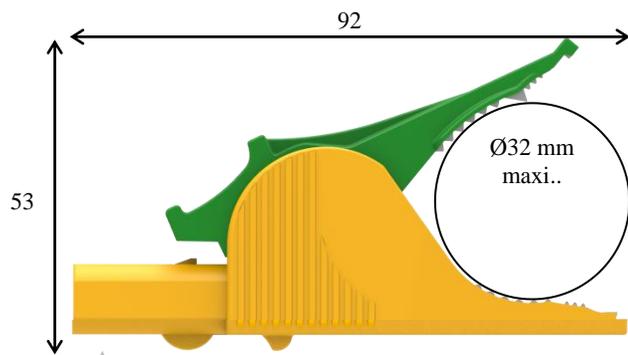
Applications : to grasp conductive parts safely. General purpose electric and electronic testing, controlling, and measuring.



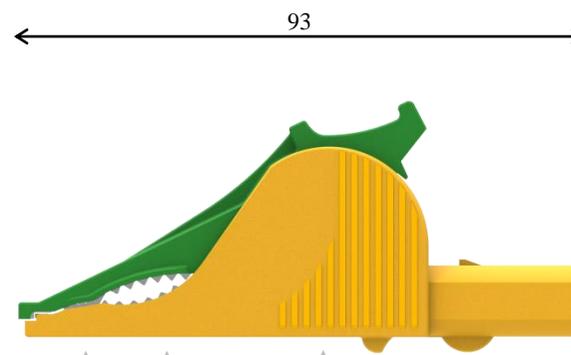
Optimum jaw design including "fangs" and almond-shaped profile to clench well a lot of various items as bar, wire, screw, PCB pin, ...



IP2X touchproof protection on the jaws when closed and the 4 mm banana female connection to prevent accidental contact.



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



(Bottom) European Union marking.

(Bottom) Electro-PJP's marking. (French design and manufacturing.)

(Bottom) Voltage and current markings.



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Electrical safety

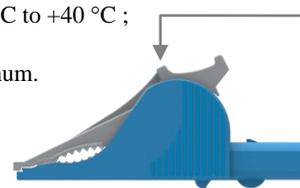
1000 V CAT II
1000 V CAT III
600 V CAT IV

The clip is constructed to reduce the risk of short-circuits and arc flashes. For this purpose the metal jaws can not be touched when closed (IP2X).

1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, 36 amperes (at +40 °C). According to EN / IEC 61010-031:2015.

These specifications come from the creepage distances, clearances, accessible parts, and solid insulation of the clip. And the considered specifications of the environment are :

- pollution degree, 1 or 2 ;
- 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.



Fingerguard. Keep behind this fingerguard to operate safely the clip while connecting to hazardous live voltages (more than 30 V AC and 60 V DC).

According to EN / IEC 60529. IP2X (touchproof) when the jaws are closed.

Operating temperature range

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

Conformity

- European Directive "Low Voltage Directive" 2014/35/UE.
- International / European standard EN / IEC 61010-031:2015.
- European Directive "RoHS" 2011/65/EU. European Directive 2015/863/EU.
- European regulation n°1907 / 2006 "REACH".
- European regulation 2017 / 821 "Conflict minerals".

Environment

- "RoHS" compliant, Pb ≤ 4 %, Hg ≤ 0.1 %, Cr VI ≤ 0.1 %, Cd ≤ 0.01 %, PBB ≤ 0.1 %, PBDE ≤ 0.1 %, DEHP ≤ 0.1 %, BBP ≤ 0.1 %, DBP ≤ 0.1 %, and DIBP ≤ 0.1 %.
- "REACH" compliant, no substances from the candidate list of SVHC for authorization at mass concentrations greater than 0.1 %.

Materials

Conductors : nickel-coated steel, tinned steel, and brass. Insulators : please contact us.

Colors



Weight

0.020 kg.

Origin

Designed and manufactured in France.

Reliability benchmark

Year of 1st placing on the market 2005.

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 origin 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.
- CTI. Comparative Tracking Index of the insulating material in accordance with IEC 60112.
- DOUBLE INSULATION. Insulation comprising both BASIC INSULATION and SUPPLEMENTARY INSULATION.
- EN / IEC 60529. European / international standard regarding the degrees of protection provided by enclosures.
- EN / IEC 61010-1. European / international standard regarding the safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements.
- EN / IEC 61010-031. European / international standard regarding the safety requirements for electrical equipment for measurement, control and laboratory use – Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test.
- "LVD". European Directive 2014/35/EU on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits. (Usually called the Low Voltage Directive.)
- MAINS. Low-voltage electricity supply system to which the equipment concerned is designed to be connected for the purpose of powering the equipment.
- MAINS CIRCUIT. Circuit which is intended to be directly connected to the MAINS for the purpose of powering the equipment.
- OVERVOLTAGE CATEGORY. Numeral defining a TRANSIENT OVERVOLTAGE 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. Numeral 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.
- REINFORCED INSULATION. Insulation which provides protection against electric shock not less than that provided by DOUBLE INSULATION.
- "RoHS". European Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- SOLID INSULATION. Insulating materials.
- SUPPLEMENTARY INSULATION. Independent insulation applied in addition to BASIC INSULATION in order to provide protection against electric shock in the event of a failure of BASIC INSULATION.
- TRANSIENT OVERVOLTAGE. Short duration overvoltage of a few milliseconds or less, oscillatory or non-oscillatory, usually highly damped.
- WORKING VOLTAGE. Highest r.m.s. value of the a.c. or d.c. voltage across any particular insulation which can occur when the equipment is supplied at rated voltage.

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