

AdaFM-Tetra63

Designation : CEE 3P+N+E+pilot 6h 415V 63A Power (male) Plug to five 4 mm Banana (female) Sockets Adapter.

Applications : to connect safely 4 mm banana leads to CEE 3P+N+E+pilot 6h 415-volt 63-ampere power sockets. To convert CEE 3P+N+E+pilot 6h 415-volt 63-ampere power sockets into safety banana female connections. To watch voltages of 3-phase networks with analyzers on long periods, to carry out reliable insulation tests on 3-phase networks.

How to use :
to measure voltages on a CEE 3P+N+E 6h 415-volt 32-ampere power socket.

First I connect the adapter to the power socket.

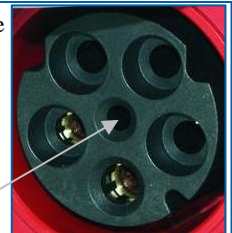


The markings and the colors of the banana female connections show me where to connect to the phases, the neutral, the protective earth, and the pilot.

Then I connect my measuring device to the 4 mm banana female connections thanks to safety 4 mm banana leads.

The banana female pilot connection.

CEE 3P+N+E 6h 415-volt 32-ampere power sockets include a pilot conductor in the centre. It is used to switch off the load before disconnecting the CEE plug. This prevents from arcing. Pilot of a power socket.



Of course the pilot conductor is useful providing that it is integrated in an electric circuit made to switch off the load. So the adapter offers a safety 2 mm banana connection which is mated to the center pilot pin of the adapter. By connecting a 2 mm banana plug to the safety 2 mm banana female connection it is possible to connect to the switching electric circuit or to make another one.

The female pilot connection can not be mistaken with the phases, neutral, and PE female connections because it is a 2 mm banana female connection while the other ones are 4 mm banana female connections.



The safety 4 mm banana female connections comply with the 4 mm banana plugs of the worldwide most famous manufacturers.

The safety 2 mm banana female pilot connection complies with the 2 mm banana plugs of the worldwide most famous manufacturers.

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

The six pins comply with CEE 3P+N+E+pilot 6h 415-volt 63-ampere power sockets.

European Union marking. CE.

Voltage and current markings.

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DATA SHEET (page 2 of 2).

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Electrical safety

415 V AC CAT IV

(On the pilot connection : 250 V AC CAT III)

The adapter shall be connected to a power socket first. Then the 4 mm banana sockets shall be connected.

The adapter shall not be energized when not connected to a power socket.

415 V AC CAT IV, reinforced insulation, 36 amperes (at +40 °C). (On the pilot connection : 250 V AC CAT III, reinforced insulation, 10 ampères, 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, 0 °C to +60 °C ; indoor use ; and altitude, 2000 m maximum.

Operating temperature range 0 °C mini., +60 °C maxi..

Protection against the spread of fire Reinforced insulation between the connections.

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 Please contact us.

Weight 0.66 kg.

Origin  Designed and manufactured in France.

Reliability benchmark Year of 1st placing on the market 2018.

Packaging Bag of 1 unit.

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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