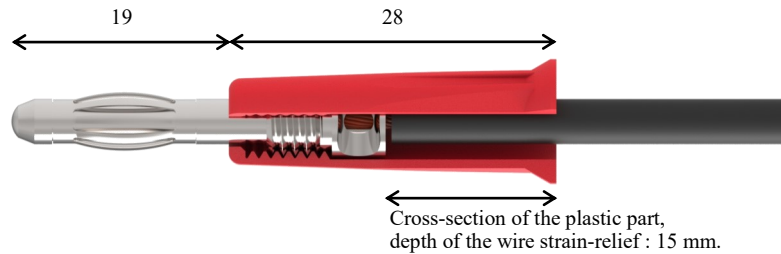


Black : 76-1640
Red : 76-1642

Designation : Do-it-Yourself (DIY). Straight 4 mm Banana (male) Plug. Solder Wire Attachment.

Applications : repairing and making of 4 mm banana leads.

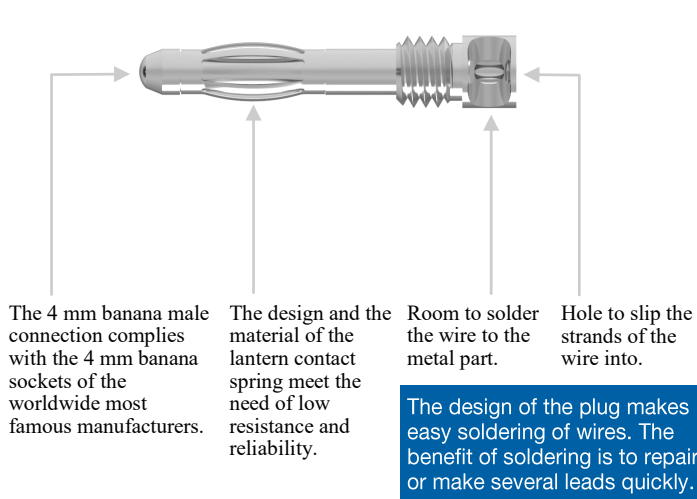
How to implement : attaching a wire.



Cross-section of the plastic part,
depth of the wire strain-relief : 15 mm.
Because of the length of the strain-relief the wire is well protected against bending.

Metal part.

Plastic part.



The 4 mm banana male connection complies with the 4 mm banana sockets of the worldwide most famous manufacturers.

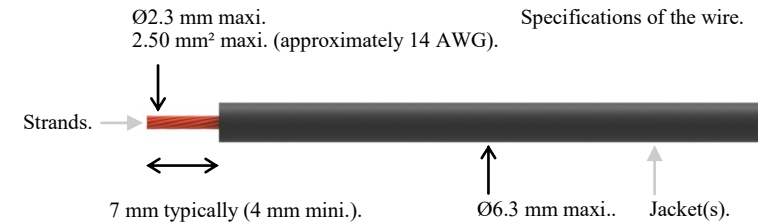
The design and the material of the lantern contact spring meet the need of low resistance and reliability.

Room to solder the wire to the metal part.
Hole to slip the strands of the wire into.
The design of the plug makes easy soldering of wires. The benefit of soldering is to repair or make several leads quickly.

Because of the threads on the metal part and the plastic part, the plug can be dismantled for repairing the connection.

➔ Step 1 of 6.

I gather a solder iron, (lead or lead-free) tin solder wire, a stranded or solid wire with the specifications below, and a tool to strip the wire. I strip the end of the wire on 7 mm typically (4 mm at least).

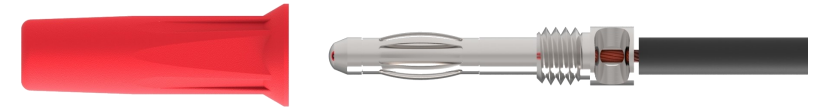


➔ Step 2 of 6.

If the plastic part is screwed on the metal part then I unscrew it and separate them.

➔ Step 3 of 6.

I slip the stripped end of the wire into the hole of the metal part until it abuts.



➔ Step 4 of 6.

With a solder iron I solder the wire to the metal part (it complies with both lead-free tin and lead-tin).

➔ Step 5 of 6.

I insert the metal part into the plastic part ; I push the metal until it abuts against the plastic part.

➔ Step 6 of 6.

I hold the metal part, I hold the plastic part, I rotate to screw until the metal part abuts against the plastic part (2.3 N.m maxi. torque).

➔ The plug is ready to use.



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Electrical safety	Very low voltages only : 33 V AC / 70 V DC, 36 A (at +40 °C).
	33 V AC / 70 V DC
Operating temperature range	-20 °C mini., +80 °C maxi. (please see above too).
Conformity	<ul style="list-style-type: none"> • European Directive "RoHS" 2011/65/EU. • European REACH regulation n°1907 / 2006.
Environment	<ul style="list-style-type: none"> • "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	Conductor : nickel-coated brass. Insulators and lantern contact spring, please contact us. .
Colors	Black Red
Weight	0.005 kg.
Origin	Designed and manufactured in France.
Reliability benchmark	Year of 1st placing on the market 1993.
Packaging	One piece per bag (in one bag : 1 metal part including 1 screw + 1 plastic part).

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 60529:2001. The 2001 version of the European / international standard regarding the degrees of protection provided by enclosures.

EN / IEC 61010-1:2010. The latest version (in February 2012) of the European / international standard regarding the safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements. Version year 2010.

EN / IEC 61010-031:2008. The latest version (in February 2012) of the 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. Version year 2008.

"LVD". European Directive 2006/95/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.)

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.