

Black: 76-007 Red: 76-1280 Designation: Do-it-Yourself (DIY). Stacking 4 mm Banana (male) Plug. Solderless Screw Wire Attachment.

Applications: in-the-field repairing and making of safety 4 mm banana leads.

Step 1 of 6. I gather a 1.5 mm Allen wrench, a stranded wire with the specifications below, and a tool to strip the wire. I check that the wire and the parts of the plug have no default. I strip the end of the wire on 7 mm ± 1 mm. Rear 4 mm banana female Ø2.6 mm maxi. (approximately 12 AWG). Specifications of the wire. connection to stack plugs. 0.75 mm² mini., 2.50 mm² maxi.. Safety compliant with 1000 V CAT II / 20 mm (x13 mm overall thickness) 1000 V CAT III / 600 V CAT IV. $7 \pm 1 \text{ mm}$ Ø3.8(+0.1/-0.2) mm Jacket(s). Step 2 of 6. With the 1.5 mm Allen wrench I unscrew the Allen screw without removing it. Step 3 of 6. I slip the stripped end of the wire through the gray plastic part and into the transverse hole of the metal part as shown below. Snap-on plastic part. Metal part. Gray plastic part. Step 4 of 6. With the 1.5 mm Allen wrench I screw and tighten (2.3 N.m maxi. torque) the Allen screw on the end of the wire. Step 5 of 6. I insert the metal part into the gray plastic part while I pull the wire. I insert the other side of the metal part into the snap-on plastic part. I push the gray plastic part towards the snap-on plastic part until they clip. As shown below. The 4 mm banana male Insulating gray tip on The design and the Transverse hole The 4 mm banana Allen screw connection complies female connection the 4 mm banana material of the of the metal part to attach the with the 4 mm banana complies with the male connection to lantern contact to slip the strands wire to the 4 mm banana sockets of the prevent accidental spring meet the of the wire into. metal part. European worldwide most Union marking. plugs of the contact. need of low worldwide most famous manufacturers. resistance and The benefit of screw famous reliability. attachment is to repair or manufacturers. Step 6 of 6. I check the gray plastic part is well locked in the snap-on plastic part. make a lead in the field with just a screwdriver. The plug is ready to use.



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DATA SHEET (PAGE 1 OF 2).

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.

to the origin of the electrical supply to a

air between two conductive parts.

listance along the surface of a solid

the insulating material in accordance

comprising both BASIC INSULATION

rsion of the European / international otection provided by enclosures.

ersion (in February 2012) of the garding the safety requirements for ht, control, and laboratory use - Part 1:

st version (in February 2012) of the garding the safety requirements for nt, control and laboratory use – Part 031: robe assemblies for electrical measure-

EC on the harmonisation of the laws of equipment designed for use within d the Low Voltage Directive.)

ply system to which the equipment ed for the purpose of powering the

intended to be directly connected to the the equipment.

meral defining a TRANSIENT OVER-

natter, solid, liquid or gaseous (ionized of dielectric strength or surface

dicating the level of POLLUTION that

LUTION or only dry, non-conductive

-conductive POLLUTION occurs except ctivity caused by condensation is

ulation which provides protection against vided by DOUBLE INSULATION.

5/EU on the restriction of the use of rical and electronic equipment.

. Independent insulation applied in against electric shock in the event of a failure of BASIC INSULATION.

TRANSIENT OVERVOLTAGE. Short duration overvoltage of a few nilliseconds 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.

Designation: Do-it-Yourself (DIY). Stacking	4 mm Banana (male) Plua	. Solderless Screw Wire Attachment.

		CAT IV. Measurement or overvoltage performed on / equipment connected to
1000 V CAT II 1000 V CAT III 600 V CAT IV	According to EN / IEC 61010-031:2008. Up to 1000 V CAT II / 1000 V CAT III / 600 V CAT IV, reinforced insulation, up to 36 A (at +40 °C) depending on the wire. According to EN / IEC 60529. IP2X (touchproof). These specifications come from the creepage distances, clearances, accessible parts, and solid insulation of the lead. 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.+	building. CLEARANCE. Shortest distance in air CREEPAGE DISTANCE. Shortest distance in air created by the conduction of
The electrical safety provided by the plug depends on: • the specifications of the wire; • the electrical safety of the wire (typically 1000 V CAT II / 600 V CAT III / 300 V CAT IV, reinforced insulation, according to EN / IEC 61010-031:2008); • the right assembling of the plug on the wire.		General requirements. Version year 20 EN IEC 61010-031-2008. The latest v European / international standard regar- electrical equipment for measurement, Safety requirements for hand-held prol ment and test. Version year 2008. "LVD". European Directive 2006/95/E Member States relating to electrical eq
Operating temperature range	-20 °C mini., +80 °C maxi. (please see above too).	certain voltage limits. (Usually called t MAINS. Low-voltage electricity suppl
Protection against fire	According to EN / IEC $61010-031:2008$. The lead is compatible with the requirements of protection against the spread of fire and resistance to heat by its basic insulation.	concerned is designed to be connected equipment. MAINS CIRCUIT. Circuit which is in MAINS for the purpose of powering th
Conformity	European Directive "Low Voltage Directive" 2014/35/EU. International / European standard EN / IEC 61010-031:2008. International / European standard EN / IEC 60529. European REACH regulation n°1907 / 2006. European Directive "RoHS" 2011/65/EU.	OVERVOLTAGE CATEGORY. Num VOLTAGE condition. POLLUTION. Addition of foreign mat gases), that may produce a reduction or resistivity. POLLUTION DEGREE. Numeral indi may be present in the environment.
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 %. 	POLLUTION DEGREE 1. No POLLU POLLUTION occurs, which has no inf POLLUTION DEGREE 2. Only non- that occasionally a temporary conducti expected. REINFORCED INSULATION. Insula
Materials	Conductors of the plugs : nickel-coated brass. Insulators and lantern contact spring, please contact us.	electric shock not less than that provid "RoHS". European Directive 2011/65/ certain hazardous substances in electric
Colors	Black Red	SOLID INSULATION. Insulating mat SUPPLEMENTARY INSULATION.
		addition to BASIC INSULATION in o

(in one bag: 1 metal part including 1 Allen screw + 1 gray plastic part + 1 snap-on plastic part).

Designed and manufactured in France.

Year of 1st placing on the market 1997.

One piece per bag

Origin

Packaging

Reliability benchmark