



# Desk Grounding A Work Bench

To assess the quality of wire insulation and...

Written By: dominogm



# INTRODUCTION

To assess the quality of wire insulation and crimping: IPC / WHMA-A-620, class 2.

## TOOLS:

Crimping Pliers (1)  
Hammer (1)  
Insulation Pliers (1)  
Measuring Tape 5m (1)  
Cordless Drill (1)  
Box Cutter (with replaceable blades) (1)  
Rivet Punch (1)  
Hole Punch (1)


## PARTS:


Quick Connect Pin (4)  
6,3 mm  
Clamping Loop (4)  
6 mm  
Cable 100 m (1)  
2,5 kv. mm  
Contact Pad (2)  
6x6,3 mm  
Hexagonal Self-Tapping Screw For Metal (4)  
8 mm galvutè  
The Clip is Clamped (2)  
The Head is Clamped (2)

## Step 1 — Coat Cutting

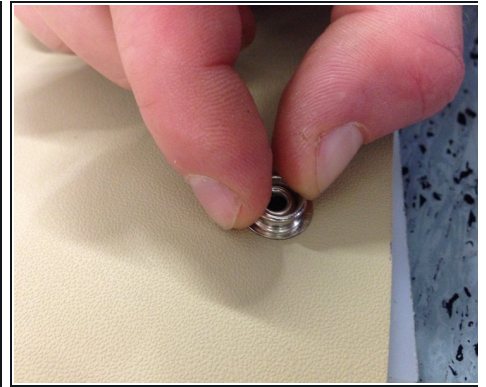


- The antistatic coating for the table is cut with a cutter according to the length and width of the table.
- The anti-static coating on the shelves is cut with a notch according to the length and width of the shelf.

 Before cutting, place a hard base (eg cardboard) under the coating.

 Standard table length 150 cm, width 70 cm. Shelf length 150 cm, width 32 cm. Always test before cutting!

## Step 2 — Clamping The Clip

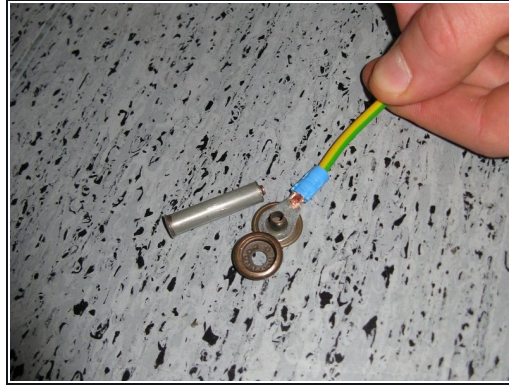


- A hole is punched in the middle of the table cover.
- The clip is pressed with a button.
- A hole is punched in the left edge of the shelf cover.
- The button and shelves are clamped with clamps.

**⚠ Check with your fingers that the clip does not rotate around its axis. If it rotates, it must be replaced with a new one.**



### Step 3 — Preparation of Wires and Fittings



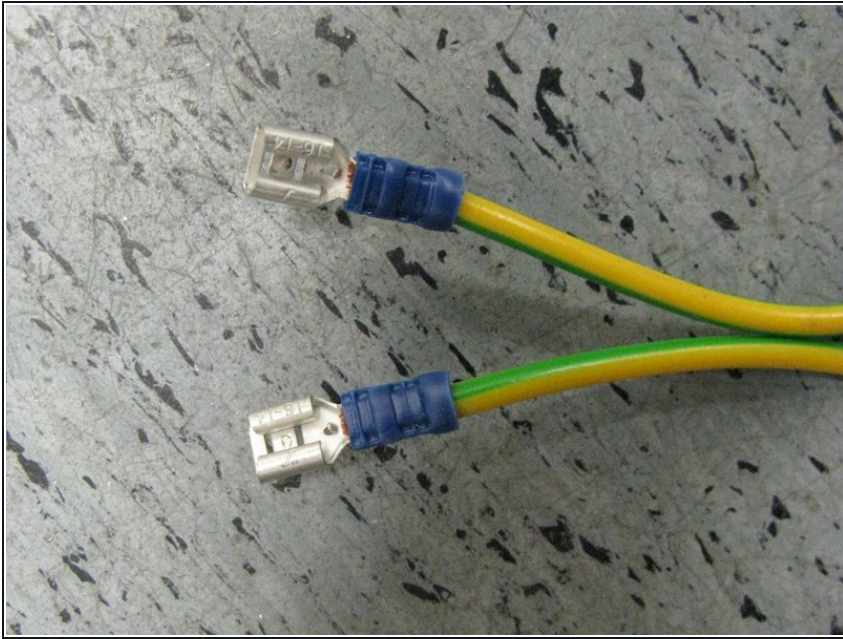
- Cut a 30 cm long cord (for a table).
- Cut cable 1.3 m long cable (shelves).
- The wire is insulated at both ends. Setting the insulation pliers at the 10 mm mark.
- A quick-connect contact is clamped to one end of the cord.
- The loop contact is pressed onto the other end and a pin with a hammer is hammered onto it.

⚠ Only the red pliers mark is used to clamp the contact.

⚠ Check with your fingers that the head clip does not rotate around its axis. If it rotates, the clamp must be replaced with a new one.

- For both wires, one end is terminated with a quick-connect contact, the other end with a pin with a head.

## Step 4 — Wire and Contact Preparation



- A 2.5 m long cable is cut (between the pole and the table).
- The wire is insulated at both ends. Setting the insulation pliers at the 10 mm mark.
- Quick-connect contacts are clamped at both ends.

**⚠ Only the red pliers mark is used to clamp the contact.**

## Step 5 — Earthing Socket Attachment



- A bracelet grounding socket is attached to the front of the table, 50 cm from the left edge.
- Socket screwed 2 pcs. with hexagonal self-tapping screws.


**⚠ The torque of the screwdriver is set to 10 divisions.**

**i** Before screwing in the hexagonal self-tapping screws, a 4 mm drill bit can be used to drill holes, making it easier to screw in the self-tapping screws.

## Step 6 — Tracing and Fixing of the Earth Socket Cable



- The cord runs through the inside of the table and the cord is wrapped around the left leg of the table from the inside.
- The cord is then routed straight to the left rear leg of the table. From the inside, the cord is wrapped around the leg and routed as close to the center of the table as possible.
- After this self-tapping screw 1 pcs. the contact block is placed first on the head and the contact of the loop is placed under the block.
- A block with a socket and a self-tapping screw is placed from below under a metal table beam.
- The table construction is drilled with a self-tapping screw and a block with a socket loop is screwed on.

 The torque of the screwdriver is set to 10 divisions.



## Step 7 — Screwing the Contact Pad to the Ground Pipe

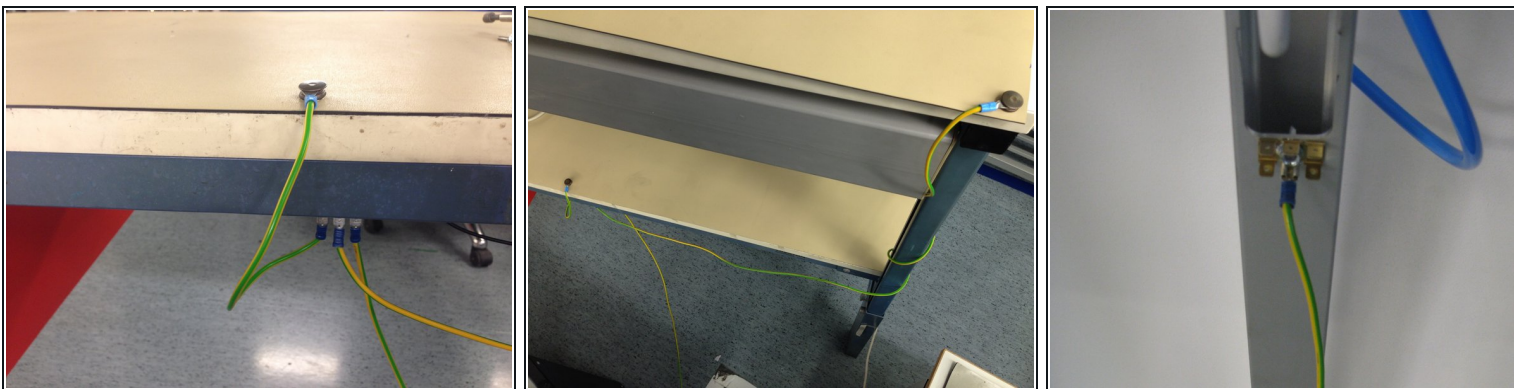


- A contact pad is screwed horizontally onto the ground pole with a self-tapping screw.

⚠ The terminal block is only attached below the opening under the socket!

⚠ The torque of the screwdriver is set to 10 divisions.

## Step 8 — Wiring



- The prepared table and shelf coverings are placed on the table.
- The table cover is connected to the contact pad.
- The shelf cover is connected to the contact pad.
- The table contact pad is connected with a wire to the ground tube contact pad.



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After assembly, recheck or complete all wiring connections:

1. The grounding socket of the bracelet is connected to the contact pad and the table frame.
2. The table cover is connected to the contact frame of the table frame.
3. The shelf cover is connected to the contact frame of the table frame.
4. The contact frame of the table frame is connected to the contact block of the ground pole.