

LED-Strip soldering tool for 8, 10, 12 and 14 mm wide LED strips



LuKowalski

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Summary

Soldering tools for 8, 10, 12 and 14 mm wide LED stripes



1.05 hrs



4 pcs



0.20 mm



0.40 mm



PET



9 g



Prusa
MK3/S/S+

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Tags: [soldering](#) [ledstrip](#)

Sometimes it's necessary to solder wires directly to LED stripes instead of using connector plugs. I'm using this tools especially to make connections if I use the LED stripes in wet or damp environments to prevent the contacts from oxidation. 1. I solder the wires to the LED stripe, 2. seal it with rubber seal like Plasti Dip, 3. cover it with shrink tube.

The tools are in four different sizes for 8, 10, 12 or 14 mm LED Stripes to ensure that the wires and the LED stripes are aligned and fixed to each other so that soldering of all connections can be easily done in one workstep.

The STL file name contains the width and the part numbers for the different tool sizes. For example **LED-Stripe-10-P2**. **STL** means size 10mm Part 2

Filament: PETG

Layer height: 0,2mm, 20% infill, no supports

Additional material:

Two pressure springs comparable to Gutekunst D-058 >>

<https://www.federnshop.com/de/produkte/druckfedern/d-058.html>

As an alternative to the originally tested springs I made a version of the tool that can be used with ballpoint pen springs of various sizes. Because there are lots of different ballpoint pen springs (different diameters, length and force) you have to try if the tool works correct. In most cases you have to shorten the ballpoint pen springs.

All STL files for the ballpoint pen spring Versions are starting with a 'P'

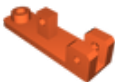
Four countersunk screws M2 x 10mm

Self adhesive 1mm foam rubber for the contact surfaces of parts 2 and 3

Model files



led-stripe-10-p2.stl



led-stripe-8-p5.stl



led-stripe-12-p2.stl



led-stripe-10-p3.stl



led-stripe-12-p1.stl



led-stripe-8-p2.stl



led-stripe-8-p3.stl



led-stripe-10-p1.stl



led-stripe-12-p5.stl



led-stripe-12-p4.stl



led-stripe-10-p5.stl



led-stripe-10-p4.stl



led-stripe-8-p1.stl



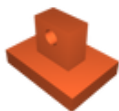
led-stripe-12-p3.stl



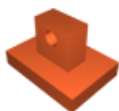
led-stripe-8-p4.stl



led-stripe-14-p1.stl



led-stripe-14-p2.stl



led-stripe-14-p3.stl



led-stripe-14-p4.stl



led-stripe-14-p5.stl



p-led-strip-08-p4.stl



p-led-strip-08-p5.stl



p-led-strip-10-p4.stl



p-led-strip-12-p4.stl



p-led-strip-10-p1.stl



p-led-strip-12-p1.stl



p-led-strip-12-p2.stl



p-led-strip-10-p5.stl



p-led-strip-10-p2.stl



p-led-strip-14-p5.stl



p-led-strip-12-p3.stl



p-led-strip-14-p4.stl



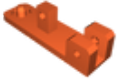
p-led-strip-14-p2.stl



p-led-strip-14-p3.stl



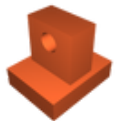
p-led-strip-10-p3.stl



p-led-strip-12-p5.stl



p-led-strip-08-p3.stl



p-led-strip-08-p2.stl



p-led-strip-14-p1.stl



p-led-strip-08-p1.stl

Print files



led-stripe-10mm_02mm_petg_mk3s_55m.gcode

PET 0.40 mm 0.20 mm 0.92 hrs 8 g Prusa MK3/S/S+



led-stripe-8mm_02mm_petg_mk3s_55m.gcode

PET 0.40 mm 0.20 mm 0.91 hrs 8 g Prusa MK3/S/S+



led-stripe-12mm_02mm_petg_mk3s_56m.gcode

PET 0.40 mm 0.20 mm 0.93 hrs 8 g Prusa MK3/S/S+



led-stripe-14mm_02mm_petg_mk3s_1h3m.gcode

PET 0.40 mm 0.20 mm 1.05 hrs 9 g Prusa MK3/S/S+

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