# LED strip Soldering jigs

AMT

## Summary

Achieving a neat connection made easy.

Hobby & Makers  >  Electronics

Tags: led  soldering  ledstrip  solder  solderingaid  solderingtool  solderingequipment

## What it is

Small soldering jigs for LED strips that allow to cut and fix the then stripped cables in place. With a dab of hotglue or some heat-shrink tubing it may even stay in place to secure the finished connection.

## How to print

Recommended for printing is a layer height of **0.20mm** or smaller and a **0.4mm nozzle**.

## How to use

### Soldering wires to LED strips

- Put the cable in place first and cut the wires according to the line given by the jig

- Strip the cables (or rely on melting the isolation later on while soldering)
  - optional: place heat-shrink tubing
- Place the LED strip in place
  - optional: secure it with the clips
- Place the cable in place
  - optional: secure it with the clips
- Solder

I tend to use the optional clips if a LED strip or cable is somewhat wayward, otherwise they are not needed.
In case you want to fix a weather proof LED strip where the printed clips do not work, a clothespin, binder clip, ... , cable tie (reusable?) works as well.

**Soldering connectors to LED strips** (tested with Molex KK 254 and JST-XH 2.54)

- Clip the LED strip onto the upper part that houses the cable channels
  - optional: place heat-shrink tubing before
- Place a connector onto the lower part with its pins facing the strips solder pads
  - optional: one clip as endstop or rubber band/clothespin/binder clip/... to hold the connector
- Solder

## What next

There may be improvements and modifications based on feedback given here.
Expanding the variety of variants is partially triggered by request, provided the required dimensions are specified.
Maybe, take a look at my other designs ;-)

# Model files

**10mm strip 3-pin**                                        5 files

**left-10mm-strip-3pin.stl**
2.54mm between centers of solder pads

### straight-10mm-strip-3pin.stl

🗋 2.54mm between centers of solder pads

### right-10mm-strip-3pin.stl

🗋 2.54mm between centers of solder pads

### clip-10mm-strips.stl

🗋 same for all 10mm strip jigs

### set_10mm_strip_3pin.stl

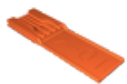🗋 pre-arranged set with 12 clips, 2.54mm between centers of solder pads

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📁 **10mm strip 4-pin**                                        5 files
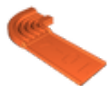
### left-10mm-strip-4pin.stl

🗋 2.54mm between centers of solder pads

### straight-10mm-strip-4pin.stl

🗋 2.54mm between centers of solder pads

### right-10mm-strip-4pin.stl

🗋 2.54mm between centers of solder pads

### clip-10mm-strips.stl

🗋 same for all 10mm strip jigs

### set_10mm_strip_4pin.stl

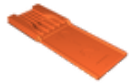📝 pre-arranged set with 12 clips, 2.54mm between centers of solder pads

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## 📁 12mm strip 5-pin     5 files

### left-12mm-strip-5pin.stl

📝 2.54mm between centers of solder pads

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### straight-12mm-strip-5pin.stl

📝 2.54mm between centers of solder pads

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### right-12mm-strip-5pin.stl

📝 2.54mm between centers of solder pads

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### clip-12mm-strips.stl

📝 same for all 12mm strip jigs

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### set_12mm_strip_5pin.stl

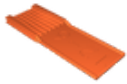📝 pre-arranged set with 12 clips, 2.54mm between centers of solder pads
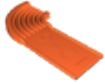
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## 📁 12mm strip 6-pin     5 files

### left-12mm-strip-6pin.stl

📝 2mm between centers of solder pads

### straight-12mm-strip-6pin.stl
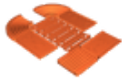
2mm between centers of solder pads

### right-12mm-strip-6pin.stl

2mm between centers of solder pads

### clip-12mm-strips.stl

same for all 12mm strip jigs

### set_12mm_strip_6pin.stl

pre-arranged set with 12 clips, 2mm between centers of solder pads

## 📂 5mm strip 2-pin - 2.4mm

5 files

### left_5mm_strip_2pin_24mm.stl

2.40mm between centers of solder pads

### straight_5mm_strip_2pin_24mm.stl

2.40mm between centers of solder pads

### right_5mm_strip_2pin_24mm.stl

2.40mm between centers of solder pads

### clip_5mm-strips.stl

same for all 5mm strip jigs

**5mm_strip_2-pin_24mm.stl**

pre-arranged set with 12 clips, 2.40mm between centers of solder pads

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📁 **5mm strip 2-pin - 100thou**                    5 files

**left_5mm_strip_2pin_100thou.stl**

2.54mm between centers of solder pads

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**straight_5mm_strip_2pin_100thou.stl**

2.54mm between centers of solder pads

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**right_5mm_strip_2pin_100thou.stl**

2.54mm between centers of solder pads

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**clip_5mm-strips.stl**

same for all 5mm strip jigs

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**5mm_strip_2-pin_100thou.stl**

pre-arranged set with 12 clips, 2.54mm between centers of solder pads

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📁 **5mm strip 2-pin - 133thou**                    5 files

**left_5mm_strip_2pin_133thou.stl**

3.38mm between centers of solder pads

### straight_5mm_strip_2pin_133thou.stl

3.38mm between centers of solder pads

### right_5mm_strip_2pin_133thou.stl

3.38mm between centers of solder pads

### clip_5mm-strips.stl

same for all 5mm strip jigs

### 5mm_strip_2-pin_133thou.stl

pre-arranged set with 12 clips, 3.38mm between centers of solder pads

## 8mm strip 2-pin - 100thou

5 files

### left-8mm-strip-2pin-100thou.stl

2.54mm between centers of solder pads

### straight-8mm-strip-2pin-100thou.stl

2.54mm between centers of solder pads

### right-8mm-strip-2pin-100thou.stl

2.54mm between centers of solder pads

### clip-8mm-strips.stl

same for all 8mm strip jigs

**set_8mm_strip_2-pin_100thou.stl**

🗋 pre-arranged set with 12 clips, 2.54mm between centers of solder pads

📂 **8mm strip 2-pin - 150thou**                    5 files

**left-8mm-strip-2pin-150thou.stl**

🗋 3.81mm between centers of solder pads

**straight-8mm-strip-2pin-150thou.stl**

🗋 3.81mm between centers of solder pads

**right-8mm-strip-2pin-150thou.stl**

🗋 3.81mm between centers of solder pads

**clip-8mm-strips.stl**

🗋 same for all 8mm strip jigs

**set_8mm_strip_2-pin_150thou.stl**

🗋 pre-arranged set with 12 clips, 3.81mm between centers of solder pads

📂 **8mm strip 2-pin - 4mm**                    5 files

**left-8mm-strip-2pin-4mm.stl**

🗋 4mm between centers of solder pads

### straight-8mm-strip-2pin-4mm.stl
🗋 4mm between centers of solder pads

### right-8mm-strip-2pin-4mm.stl
🗋 4mm between centers of solder pads

### clip-8mm-strips.stl
🗋 same for all 8mm strip jigs

### set_8mm_strip_2-pin_4mm.stl
🗋 pre-arranged set with 12 clips, 4mm between centers of solder pads

📂 **8mm strip 2-pin - 200thou**                    5 files

### left-8mm-strip-2pin-200thou.stl
🗋 5.08mm between centers of solder pads

### straight-8mm-strip-2pin-200thou.stl
🗋 5.08mm between centers of solder pads

### right-8mm-strip-2pin-200thou.stl
🗋 5.08mm between centers of solder pads

### clip-8mm-strips.stl
🗋 same for all 8mm strip jigs

### set_8mm_strip_2-pin_200thou.stl
pre-arranged set with 12 clips, 5.08mm between centers of solder pads

## 8mm strip 2-pin - 250thou
5 files

### left-8mm-strip-2pin-250thou.stl
6.35mm between centers of solder pads

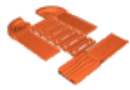### straight-8mm-strip-2pin-250thou.stl
6.35mm between centers of solder pads

### right-8mm-strip-2pin-250thou.stl
6.35mm between centers of solder pads

### clip-8mm-strips.stl
same for all 8mm strip jigs

### set_8mm_strip_2-pin_250thou.stl
pre-arranged set with 12 clips, 6.35mm between centers of solder pads

## 8mm strip 3-pin - 2mm
5 files

### left-8mm-strip-3pin-2mm.stl
2mm between centers of solder pads

### straight-8mm-strip-3pin-2mm.stl

📄 2mm between centers of solder pads

### right-8mm-strip-3pin-2mm.stl

📄 2mm between centers of solder pads

### clip-8mm-strips.stl

📄 same for all 8mm strip jigs

### set_8mm_strip_3-pin_2mm.stl

📄 pre-arranged set with 12 clips, 2mm between centers of solder pads

## 📁 8mm strip 3-pin - 100thou                                          5 files

### left-8mm-strip-3pin-100thou.stl

📄 2.54mm between centers of solder pads

### straight-8mm-strip-3pin-100thou.stl

📄 2.54mm between centers of solder pads

### right-8mm-strip-3pin-100thou.stl

📄 2.54mm between centers of solder pads

### clip-8mm-strips.stl

📄 same for all 8mm strip jigs

**set_8mm_strip_3-pin_100thou.stl**

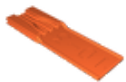pre-arranged set with 12 clips, 2.54mm between centers of solder pads

## 10mm strip 2-pin - 200thou
5 files

**left-10mm-strip-2pin-200thou.stl**

5.08mm between centers of solder pads

**straight-10mm-strip-2pin-200thou.stl**
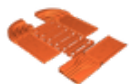
5.08mm between centers of solder pads

**right-10mm-strip-2pin-200thou.stl**

5.08mm between centers of solder pads

**clip-10mm-strips.stl**

same for all 10mm strip jigs

**set_10mm_strip_2pin_200thou.stl**

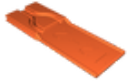pre-arranged set with 12 clips, 5.08mm between centers of solder pads

## 10mm strip 2-pin - 250thou
5 files

**left-10mm-strip-2pin-250thou.stl**

6.35mm between centers of solder pads

**straight-10mm-strip-2pin-250thou.stl**

🗋 6.35mm between centers of solder pads

**right-10mm-strip-2pin-250thou.stl**

🗋 6.35mm between centers of solder pads

**clip-10mm-strips.stl**

🗋 same for all 10mm strip jigs

**set_10mm_strip_2pin_250thou.stl**

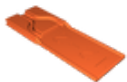🗋 pre-arranged set with 12 clips, 6.35mm between centers of solder pads

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📂 **10mm strip 3-pin - 3mm**                                   5 files

**left-10mm-strip-3pin-3mm.stl**

**straight-10mm-strip-3pin-3mm.stl**

**right-10mm-strip-3pin-3mm.stl**

**clip-10mm-strips.stl**

🗋 same for all 10mm strip jigs
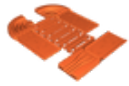
**set_10mm_strip_3-pin_3mm.stl**

## 10mm strip 3-pin - 4mm

5 files

**left-10mm-strip-3pin-4mm.stl**
4mm between centers of solder pads

**straight-10mm-strip-3pin-4mm.stl**
4mm between centers of solder pads

**right-10mm-strip-3pin-4mm.stl**
4mm between centers of solder pads

**clip-10mm-strips.stl**
same for all 10mm strip jigs

**set_10mm_strip_3pin_4mm.stl**
pre-arranged set with 12 clips, 4mm between centers of solder pads

## 12mm strip 2-pin - 350thou

5 files

**left-12mm-strip-2pin-350thou.stl**
8.89mm between centers of solder pads

### straight-12mm-strip-2pin-350thou.stl
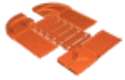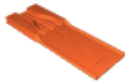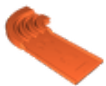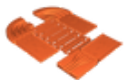
📄 8.89mm between centers of solder pads

### right-12mm-strip-2pin-350thou.stl

📄 8.89mm between centers of solder pads

### clip-12mm-strips.stl

📄 same for all 12mm strip jigs

### set_12mm_strip_2pin_350thou.stl

📄 pre-arranged set with 12 clips, 8.89mm between centers of solder pads

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📁 **12mm strip 2-pin - 400thou**                    5 files

### left-12mm-strip-2pin-400thou.stl

📄 10.16mm between centers of solder pads

### straight-12mm-strip-2pin-400thou.stl

📄 10.16mm between centers of solder pads

### right-12mm-strip-2pin-400thou.stl

📄 10.16mm between centers of solder pads

### clip-12mm-strips.stl

📄 same for all 12mm strip jigs

### set_12mm_strip_2pin_400thou.stl

📄 pre-arranged set with 12 clips, 10.16mm between centers of solder pads

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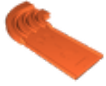## 📂 12mm strip 3-pin - 150thou                          5 files

### left-12mm-strip-3pin-150thou.stl

📄 3.81mm between centers of solder pads

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### straight-12mm-strip-3pin-150thou.stl

📄 3.81mm between centers of solder pads

---

### right-12mm-strip-3pin-150thou.stl

📄 3.81mm between centers of solder pads

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### clip_12mm-strips.stl

📄 same for all 12mm strip jigs

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### set_12mm_strip_3-pin_150thou.stl

📄 pre-arranged set with 12 clips, 3.81mm between centers of solder pads

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## 📂 12mm strip 3-pin - 175thou                          5 files

### left-12mm-strip-3pin-175thou.stl

📄 4.45mm between centers of solder pads

### straight-12mm-strip-3pin-175thou.stl
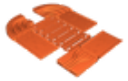
📄 4.45mm between centers of solder pads

### right-12mm-strip-3pin-175thou.stl

📄 4.45mm between centers of solder pads

### clip_12mm-strips.stl

📄 same for all 12mm strip jigs

### set_12mm_strip_3-pin_175thou.stl

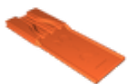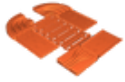📄 pre-arranged set with 12 clips, 4.45mm between centers of solder pads

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📂 **12mm strip 3-pin - 4mm**                                    5 files

### left-12mm-strip-3pin-4mm.stl

📄 4mm between centers of solder pads

### straight-12mm-strip-3pin-4mm.stl

📄 4mm between centers of solder pads

### right-12mm-strip-3pin-4mm.stl

📄 4mm between centers of solder pads

### clip_12mm-strips.stl

📄 same for all 12mm strip jigs

**set_12mm_strip_3-pin_4mm.stl**

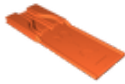⬜ pre-arranged set with 12 clips, 4mm between centers of solder pads

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📂 **12mm strip 3-pin - 200thou**                                    5 files

**left-12mm-strip-3pin-200thou.stl**

⬜ 5.08mm between centers of solder pads

**straight-12mm-strip-3pin-200thou.stl**
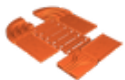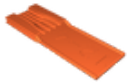
⬜ 5.08mm between centers of solder pads

**right-12mm-strip-3pin-200thou.stl**

⬜ 5.08mm between centers of solder pads

**clip_12mm-strips.stl**

⬜ same for all 12mm strip jigs

**set_12mm_strip_3-pin_200thou.stl**

⬜ pre-arranged set with 12 clips, 5.08mm between centers of solder pads

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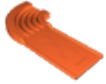📂 **12mm strip 4-pin - 2.5mm**                                    7 files

**left-12mm-strip-4pin-25mm.stl**

⬜ 2.5mm between centers of solder pads

### straight-12mm-strip-4pin-25mm.stl

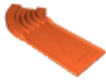📝 2.5mm between centers of solder pads

### right-12mm-strip-4pin-25mm.stl

📝 2.5mm between centers of solder pads

### left-120deg-12mm-strip-4pin-25mm.stl

📝 2.5mm between centers of solder pads

### right-120deg-12mm-strip-4pin-25mm.stl

📝 2.5mm between centers of solder pads

### clip-12mm-strips.stl

📝 same for all 12mm strip jigs

### set_12mm_strip_4-pin_25mm.stl

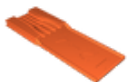📝 pre-arranged set with 12 clips, 2.5mm between centers of solder pads

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📂 **12mm strip 4-pin - 100thou**                                    7 files
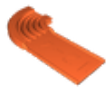
### left-12mm-strip-4pin-100thou.stl

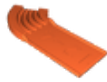📝 2.54mm between centers of solder pads

### straight-12mm-strip-4pin-100thou.stl

📝 2.54mm between centers of solder pads

### right-12mm-strip-4pin-100thou.stl
📄 2.54mm between centers of solder pads

### right-120deg-12mm-strip-4pin-100thou.stl
📄 2.54mm between centers of solder pads

### left-120deg-12mm-strip-4pin-100thou.stl
📄 2.54mm between centers of solder pads

### clip-12mm-strips.stl
📄 same for all 12mm strip jigs
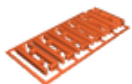
### set_12mm_strip_4-pin_100thou.stl
📄 pre-arranged set with 12 clips, 2.54mm between centers of solder pads
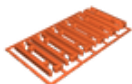
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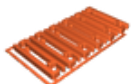## 📁 Clip kits - first layer aide                    4 files

### clip_kit_5mm_strips.stl
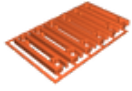📄 Set with 12 clips that are connected within the first layer

### clip_kit_8mm_strips.stl
📄 Set with 12 clips that are connected within the first layer

### clip_kit_10mm_strips.stl
📄 Set with 12 clips that are connected within the first layer

**clip_kit_12mm_strips.stl**

⬚ Set with 12 clips that are connected within the first layer

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✖ | No sharing or redistributing in any way of the 3D files or derivatives
✖ | No remixing
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