



## Mini Magnetic Twist Lock Quick Release Key Ring



**milks**

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### Summary

This little 20mm key ring is about as small as an FFF printer can reliably print this kind of geometry. To release:...

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This little 20mm key ring is about as small as an FFF printer can reliably print this kind of geometry.

To release: pull down, release up a little, twist anticlockwise and pull down again.

I've used Moss Grey Matte PLA in the photos which suits it very well: <http://bit.ly/moss-grey-pla>

You'll need a couple of small disc magnets, one 5mm in diameter, 2.5mm high and the other 3mm in diameter by 2mm high. These can push fit into the parts (depending on your printer's tolerances) but are best held in place with a blob of super glue (cyanoacrylate). If you want to use different sized magnets just let me know and I'll upload models to suit.

I recommend N52 neodymium magnets for maximum strength, like these:  
<http://bit.ly/magnets-3x2> <http://bit.ly/magnets-5x25>

This would look fantastic printed on an SLA printer!

## **Print Settings**

### **Rafts:**

No

### **Supports:**

No

### **Resolution:**

100microns

### **Infill:**

20%

**Filament:** [Filamentive PLA Moss Grey](#)

### **Notes:**

Print for strength:

\* 4 perimeters \* 1.02 extrusion multiplier

Print for accuracy:

- slow speeds
- Only retract when crossing perimeters
- Avoid crossing perimeters
- Random seam position

Improve bed adhesion:

- 4mm brim

Category: Keychains

# Model files



locking\_keyring\_plug.stl



locking\_keyring\_socket.stl

[Find source .stl files on Thingiverse.com](#)

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