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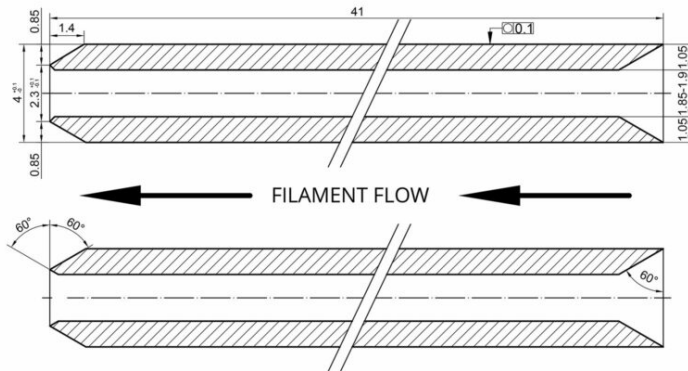
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# How to trim PTFE tube - Multi Material

MK2/S MMU1 HOTEND

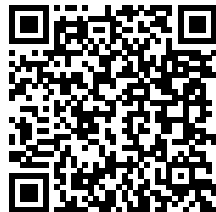
Note: all PTFE dimensions are in mm.



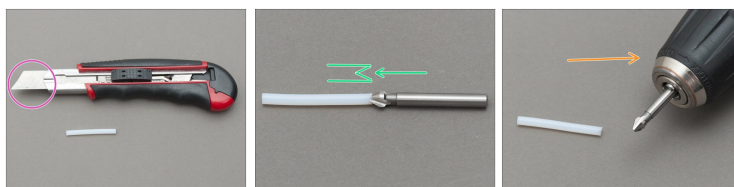
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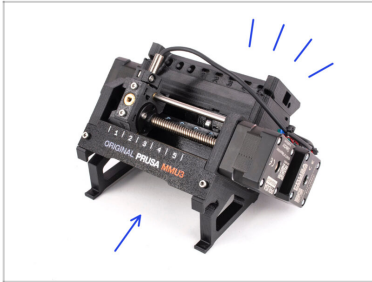


## STEP 1 Introduction



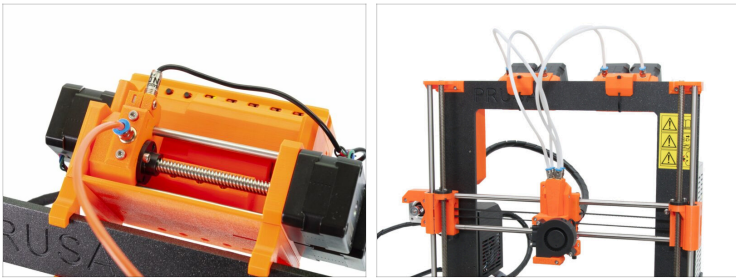
- ◆ This guide is dedicated to the PTFE tubes for Multi Material Original Prusa printers. **PTFE tube specifications are listed below.**
- ⚠ All the required tubes come with the current products already cut to size. For replacements, visit the Prusa E-shop. However, if you need to make your own PTFE tubing, make sure to read the following guide carefully.
- ◆ For single material Original Prusa printers PTFE trimming guide, go to: How to trim PTFE tube - Original Prusa printers
- ◆ For trimming, get a cutting tool with a thin blade. Use either razor or carpet knife. **DON'T** use a kitchen knife.
- ◆ For chamfering, we recommend to use a specific drill bit with appropriately angled conical head.
- ◆ Using the chamfering drill bit, we recommend using it by hand. If you use an electric drill, set it to low speed and press very gently.

## STEP 2 Latest Multi Material printers



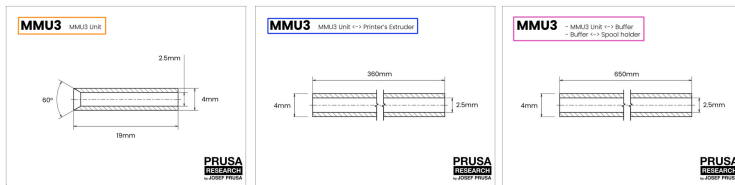
- ◆ **Latest products:**
  - ◆ Original Prusa MMU3 Unit
- ⓘ Click the link to get redirected to the appropriate step.


## STEP 3 Obsolete Multi Material printers




- ◆ **Obsolete printers:**
  - ◆ Original Prusa i3 MK3S MMU2S
  - ◆ Original Prusa i3 MK2.5S MMU2S
  - ◆ Original Prusa i3 MK3 MMU2
  - ◆ Original Prusa i3 MK2.5 MMU2
  - ◆ Original Prusa i3 MK2/S MMU1
- ⓘ Click on the printer's name to get redirected to the appropriate step.


### STEP 4 MMU3 Unit




 This is an ideal shape of the PTFE tube for Multi Material printer. Given dimensions and angles are recommended values.

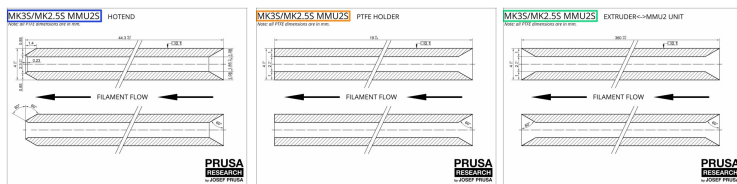
 MMU3 Unit


 MMU3 Unit - Printer's Extruder




 MMU3 Unit - Buffer Buffer - Spool holder


 Dimensions of the PTFE tube in the MK3S+ hotend are the same as on the single-material version of the printer.


## STEP 5 OBSOLETE: PTFE for the MK3S/MK2.5S MMU2S (part 1)



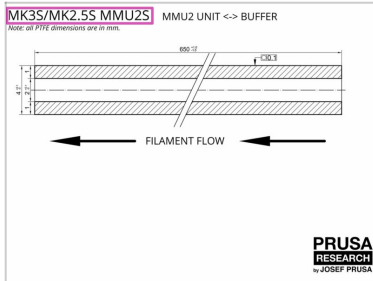
 This is an ideal shape of the PTFE tube for Multi Material printer. Given dimensions and angles are recommended values.

-  HOTEND PTFE
-  PTFE HOLDER
-  EXTRUDER TO MMU2S UNIT

 See the next step for the other PTFE tubes for the MMU2S printer.

 All dimensions are in millimetres.

## STEP 6 OBSOLETE: PTFE for the MK3S/MK2.5S MMU2S (part 2)

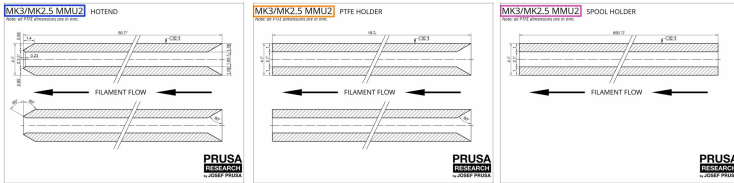



⚠ This is an ideal shape of the PTFE tube for Multi Material printer. Given dimensions and angles are recommended values.




◆ MMU2S UNIT TO BUFFER


ⓘ All dimensions are in millimetres.


## STEP 7 OBSOLETE: PTFE for the MK3/MK2.5 MMU2 (part 1)



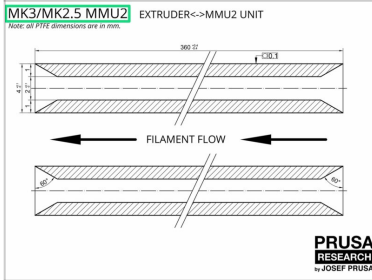
 This is an ideal shape of the PTFE tube for Multi Material printer. Given dimensions and angles are recommended values.

-  HOTEND PTFE
-  PTFE HOLDER
-  SPOOL HOLDER

 See the next step for the last PTFE tube for the MMU2 printer.

 All dimensions are in millimetres.

## STEP 8 OBSOLETE: PTFE for the MK3/MK2.5 MMU2 (part 2)

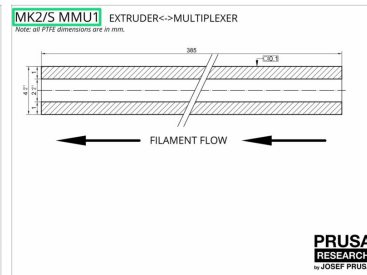
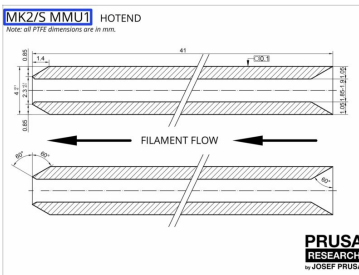


⚠ This is an ideal shape of the PTFE tube for Multi Material printer. Given dimensions and angles are recommended values.

🟢 EXTRUDER TO MMU2 UNIT

📄 All dimensions are in millimetres.

## STEP 9 OBSOLETE: PTFE for the MK2/S MMU1



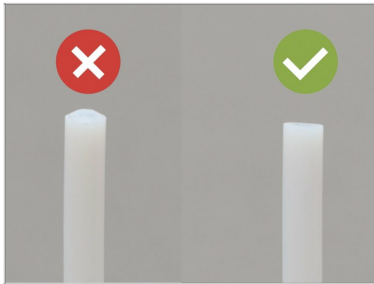
⚠ This is an ideal shape of the PTFE tube for Multi Material printer. Given dimensions and angles are recommended values.


🟢 HOTEND PTFE



🟢 EXTRUDER TO MULTIPLEXER

📄 All dimensions are in millimetres.

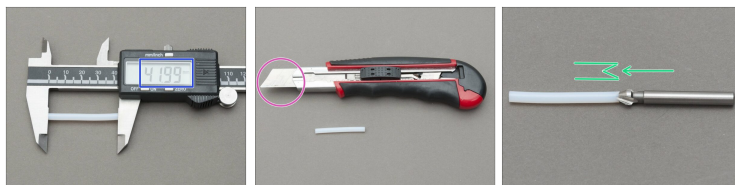
## STEP 10 MMU1: Where to trim the tube (important)



 **IT IS CRUCIAL** to cut the correct end of the tube, check twice before you start!

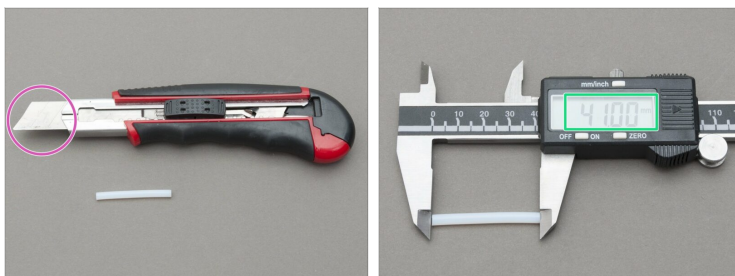
-  One end of the tube has "rounded" outer edge. **DON'T CUT** this part.
-  Look at the other end, where the tube is drilled inside, shape of the edge is "conical". This is the side you **CAN CUT**.

## STEP 11 MMU1 Y-splitter PTFE: proper tools



- ◆ During the MMU1 assembly, it might happen your PTFE tube is too long to fit in the Y-splitter.
- ⚠ **ATTENTION!!!** Please read all instructions at least twice! If you trim or drill the tube improperly, you will have to order it again!
- ⚠ **READ CAREFULLY** instructions for the tools before you proceed further. Prusa Research is not responsible for any harm or injury.
- ◆ For trimming get a cutting tool with a thin blade. Use either razor or carpet knife. **DON'T** use kitchen knife.
- ◆ For drilling is recommended to use a drill bit with conic head or you can use a drill bit with diameter 3,5 - 4 mm. The point is to make a conical entrance in the tube.

## STEP 12 MMU1: Trimming the PTFE tube



- ◆ Take the razor or knife and carefully trim the tube.
- ⚠ Don't press too hard during the cutting on the tube, you can deform the circular shape and this will lead to filament jam!
- ◆ Optimal length is **41 mm** for MMU1 Y-Splitter.

## STEP 13 MMU1: Drilling the tube's edge



- After cutting the tube to appropriate length, you need to renew the conical entrance.
- Use the drill bit you've prepared in the beginning. You can use electric drill, but set it to low RPM and press very gently.
- **It is important to achieve smooth entrance**, so the filament will slide in. Clean the tube from any particles, which might prevent it.
- That's it! Place the PTFE tube back to the Multiplexer and continue with the assembly.



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