

PRIZMATIX DIY CANNULA INSTRUCTIONS



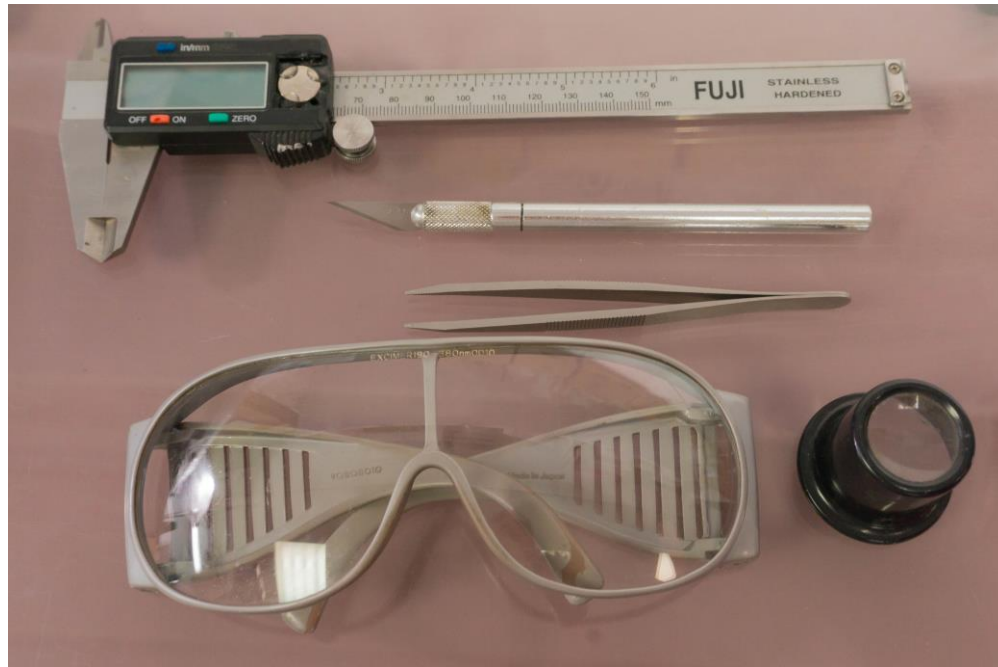
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Contents of Kit



1. CONSTRUCTION OF CANNULA

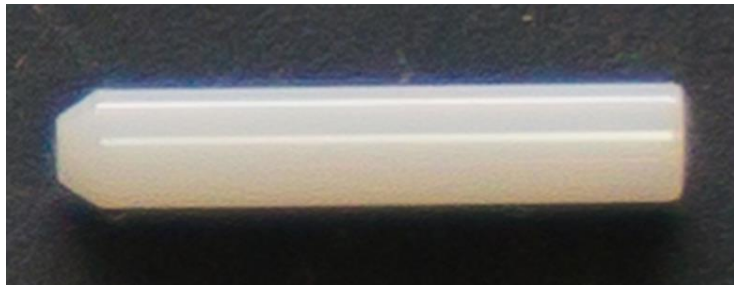
Gather necessary tools:



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Basic Ferrule Layout

Convex
End



Flat
End

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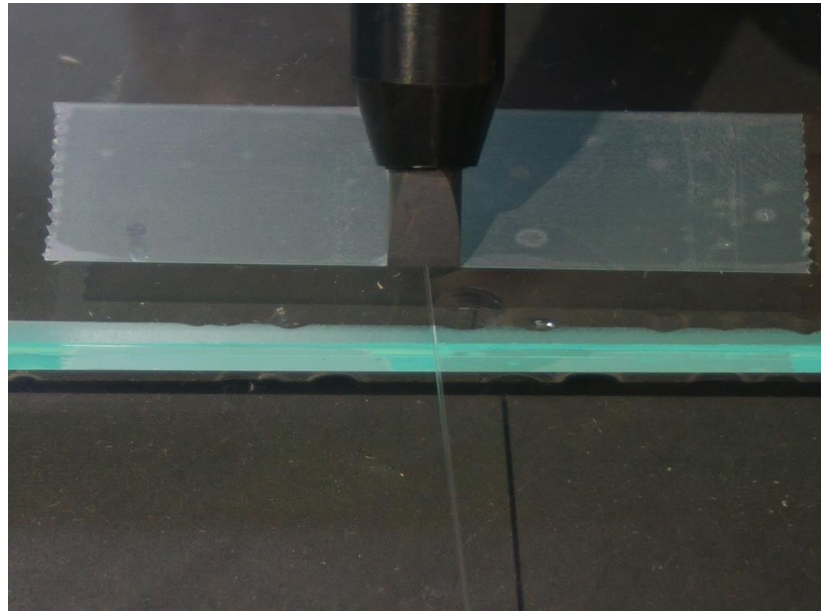
If using uncleaved fibers:

Carefully take out an uncleaved fiber from the tube.



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Uncleaved Fibers: Tape down fiber firmly, about 6mm from surface edge.



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Uncleaved Fibers: Pull fiber taut, and very gently make a mark perpendicular to the fiber length.

Continue pulling gently until the fiber cleaves and breaks off.

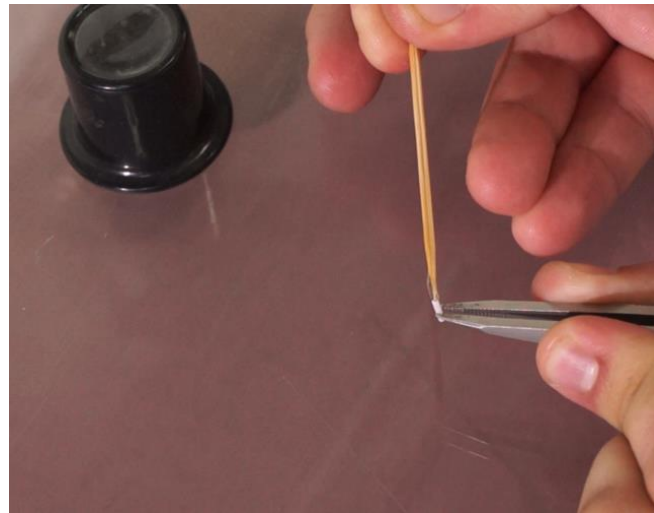
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Prepare epoxy glue for fiber optics according to manufacturer's instructions.

Tip: we recommend Epo-Tek 301

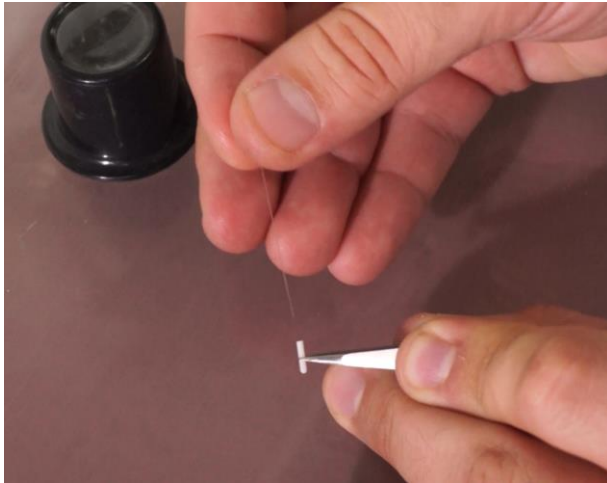
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Place a bead of epoxy glue on flat side of cannula, then wait a few seconds for glue to penetrate.



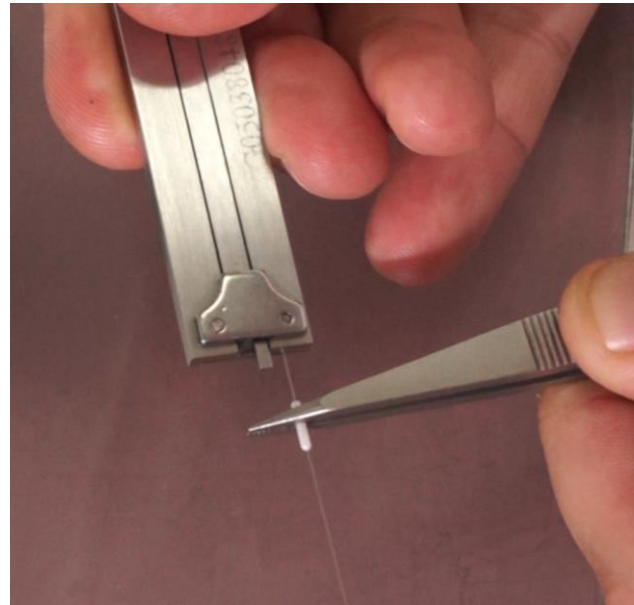
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Insert uncleaved end of fiber into flat side so that it protrudes from convex (rounded) end.



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Push fiber through to desired length,
measuring with caliper to get exact length.

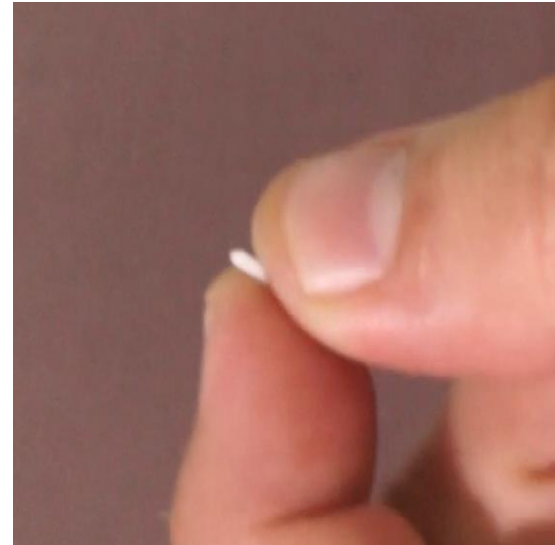


Let cannula dry 24 hours.

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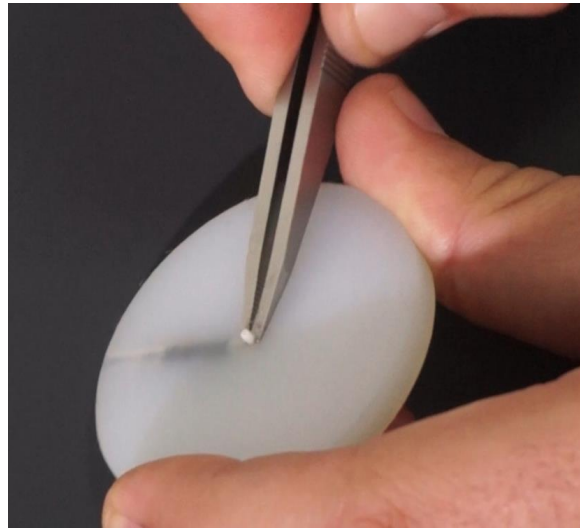
2. POLISHING OF THE CANNULA

Take the scribe and gently scratch around the fiber on the convex side until the excess fiber falls off. Handle carefully and gently!



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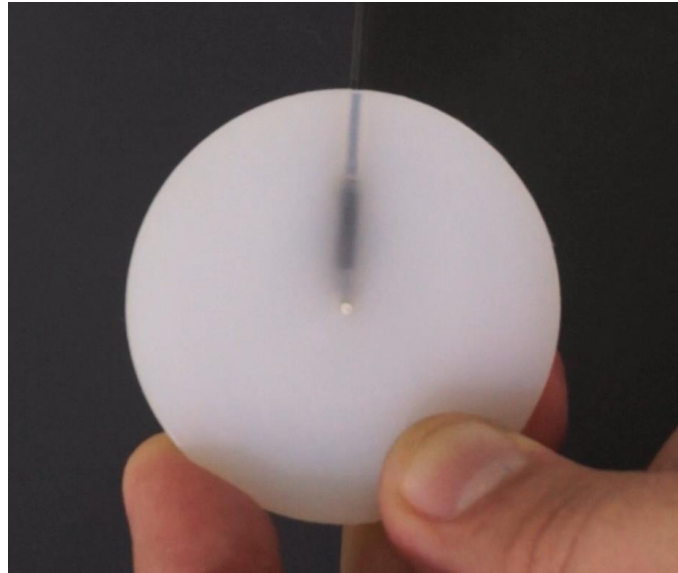
Insert cannula into the puck: ensure that only a very small part of cannula sticks out.



Tip: place the puck on several layers of tissue paper when inserting cannula

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Tighten puck with the hex key



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Place the puck on the polishing paper, and start polishing in figure-8 patterns or small circles.

After a few rounds move on to increasingly finer polishing papers.

Don't forget to add water for the finer papers!

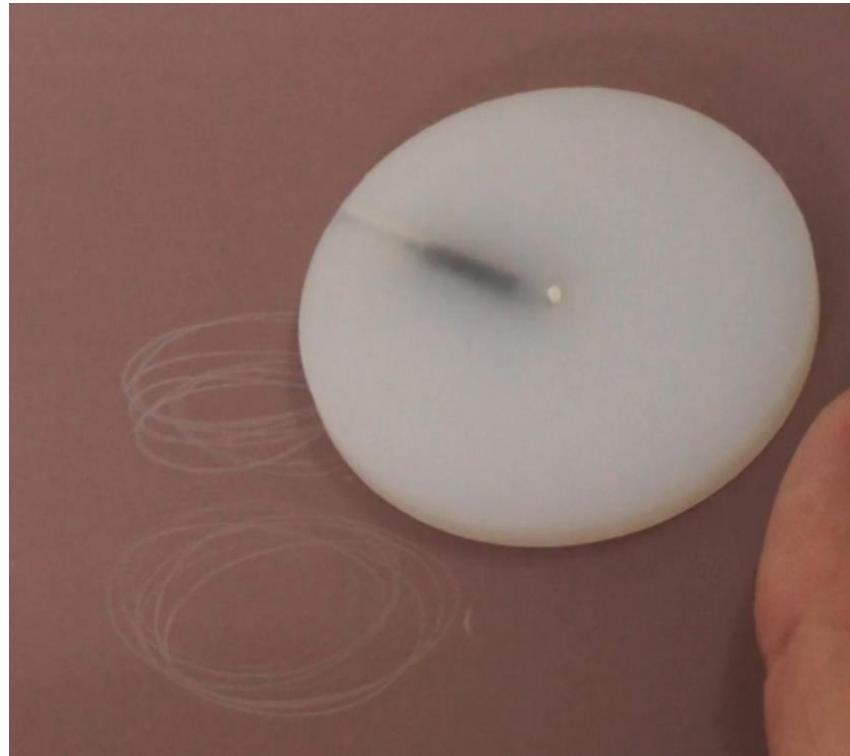
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Black 5um Paper



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Pink 3um Paper



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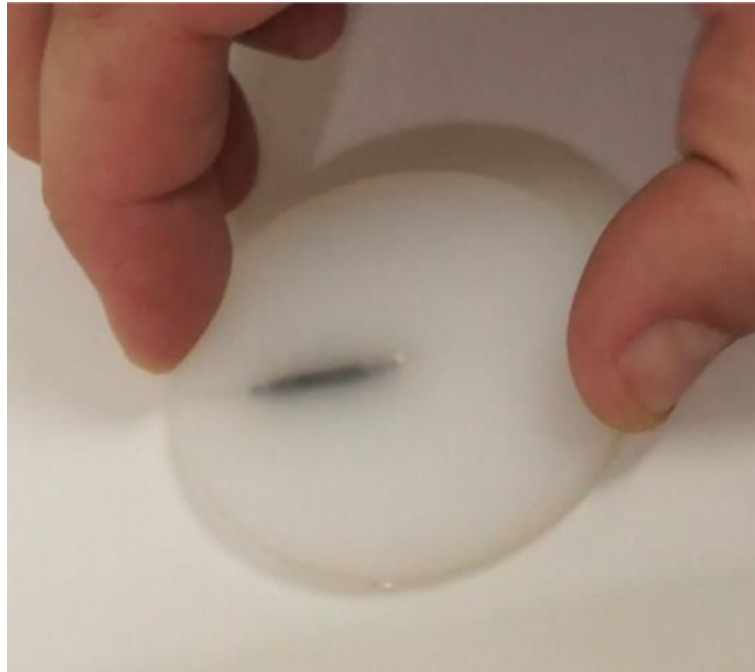
Green 1um Paper



(Add water)

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White 0.3um Paper



(Add water)

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3. INSPECTION

Hold up cannula to the light with round end towards you, and ensuring a full circle of light is visible through the cannula. Ideally check cannula dedicated fiberscope.

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The Finished Cannula



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