



iFIT Prosthesis Spool Instructions

For greater flexibility for you and your patients we now have an additional system for adjusting the buckle tightness. Some of the advantages of the spool are: the prosthesis is pre-set so patients can buckle and unbuckle without having to find their setting, larger adjustments can be made versus the hook and cable, and the cord can be replaced if ever needed. Each prosthesis comes pre-threaded. The spools should be close to the buckles in front of the leg, this removes them from the inside of the leg and prevents them from rubbing the inside of the thigh.

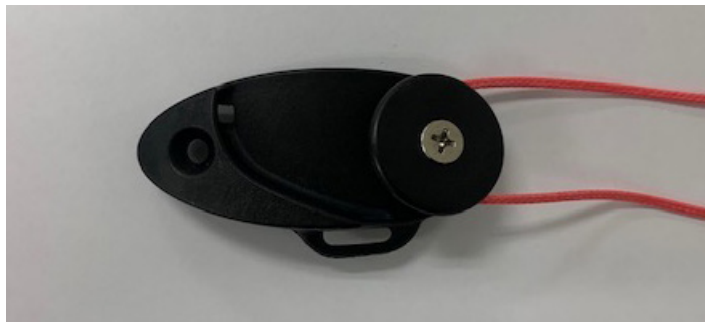
CORD THREADING AND SECURING

Correct



The cord must be thread through the side opposite of the spool and secured with a slip knot.

Incorrect



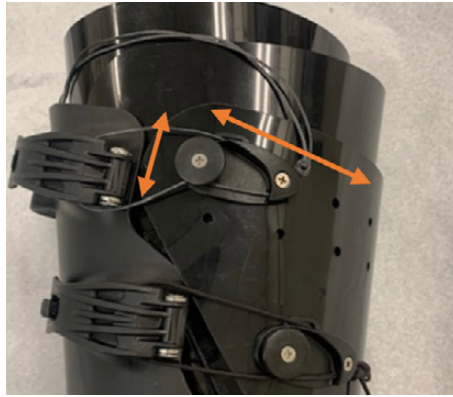
The cord **CANNOT** just be wrapped around the spool to be secured as shown above.

CORD TYPE

Each prosthesis comes with 2.5 mm cord that has a 500-pound tensile strength. This cord is extremely durable, however we still recommend to advise the patient to inspect the cord for any fraying or signs of excessive wear. The prosthetist should be notified immediately and the cord replaced. Extra cord is included in each kit.

USE INSTRUCTIONS

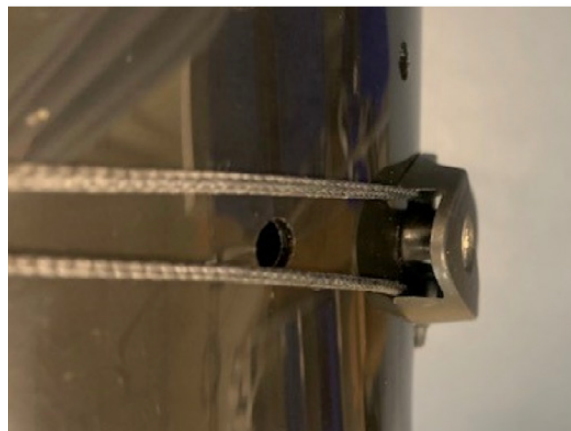
- The spools can be moved depending on the length and circumference of the patient. For thinner limbs, the spool can be moved back. For short limbs the spool can be moved downward. Please refer to the full iFIT transfemoral instruction guide for guidance on trimming the flap.



- If the prosthesis cord needs to be replaced, first insert the cord into the buckle.



- Next, thread the laces through the holes of the spool. Make sure the laces are running through the spool (pictured on right).

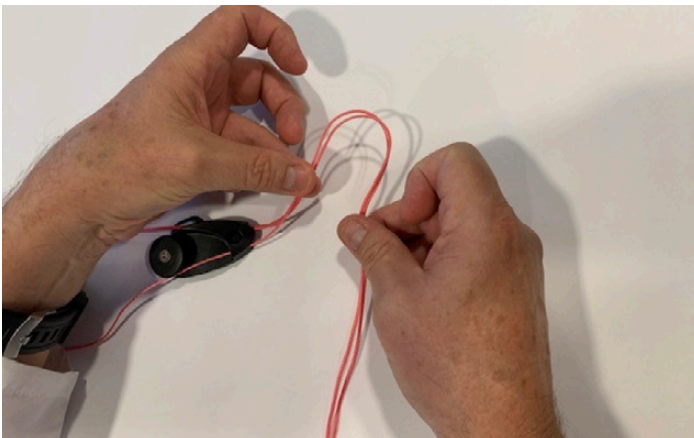


- To determine the cord length, close the prosthesis and pull the cord to where it is loosely closed around the limb. Then, tie a knot to secure. A slip knot is shown in this figure, please refer to the instructions at the end for tying a loop knot. You will finalize the knot once you are sure how much cord is needed.

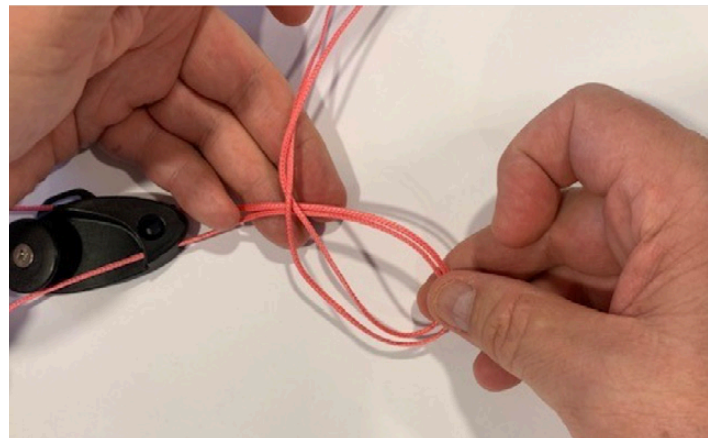


HOW TO TIE THE KNOT

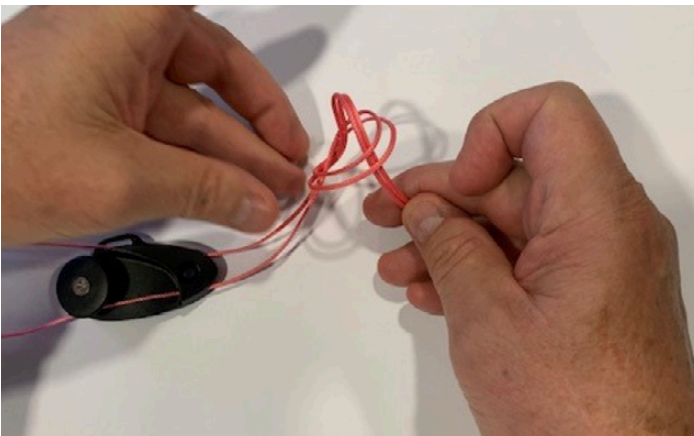
Step 1: Take both strands of the cord and pinch together.



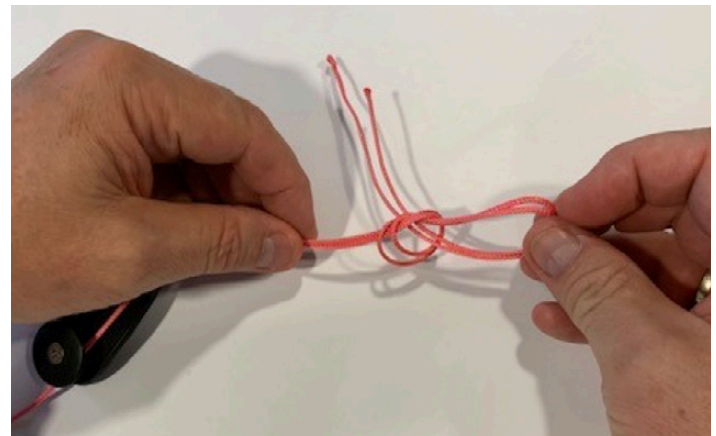
Step 2: Form a loop.



Step 3: Push the cord through the center.



Step 4: Continue pulling but not all the way, creating your slip knot.



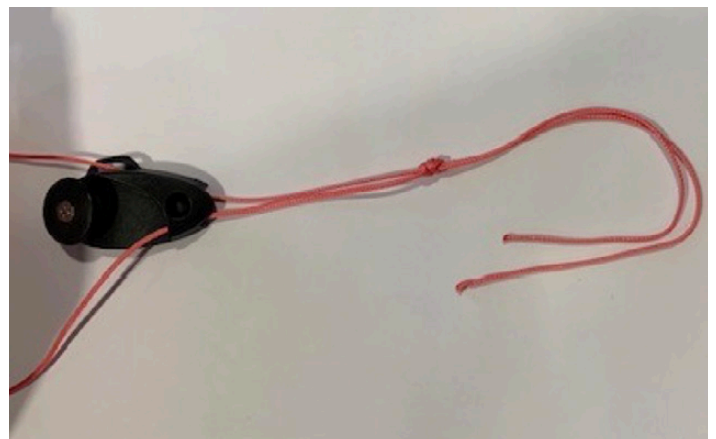
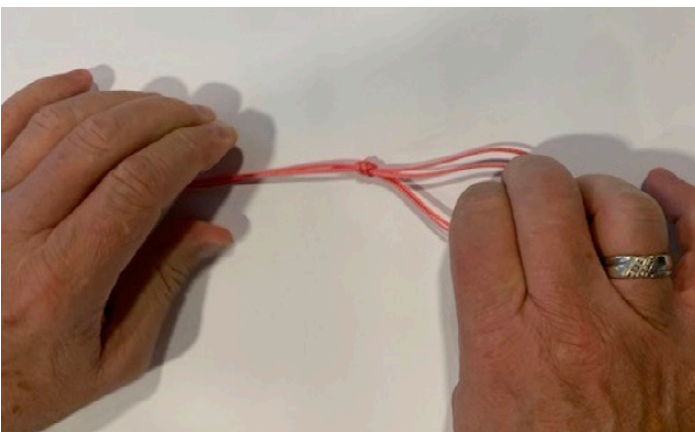
- Open the prosthesis back up and loop the cord the spool 1-3 times. Close the prosthesis and have the patient stand. If adjustments need to be made, open the buckle and either wrap the cord around the spool again to tighten the prosthesis or unwrap the cord around the spool to loosen the prosthesis. Adjust until the prosthesis is comfortable and snug.



- If optimal tightness is not able to be achieved by the method above, untie the knot, loosen or tighten the cord to optimal tightness for the patient, and retie the knot. You can also unwind and rewind the loops as they will sit slightly different each time.

FINALIZING THE KNOT

Step 5: Once you have the desired length identified, you can pull the cord all the way through to finalize the knot.



Step 6: Cut the end of the cord and then burn end so it does not fray.



Step 7: There is a space in the spool where the knot can be tucked away and not seen.



Advantages

- The patient can then buckle and unbuckle the prosthesis for donning and doffing—no more finding the hook locations with the cable ends. They should not need to adjust the spool to don or doff unless they are experiencing changes in volume.
- Should the patient experience a volume change, open the buckle and wrap the cord around the spool to tighten the prosthesis or unwrap the cord around the spool to loosen the prosthesis. Continue wrapping or unwrapping until optimal tightness is achieved.
- If optimal tightness is not able to be achieved by the method above, untie the knot, adjust the cord length, and retie the knot.

INSTALLATION, MOVING, OR REPLACING SPOOL PARTS

- Use Loctite 242 or equivalent threadlocker and tighten screws to 2Nm.



⚠ Failure to do so could result in screw loosening. This would cause the spool to detach and the prosthetic to loosen unexpectedly which could result in injury to the user.

- Different length screws are used on the spools, ensure adequate thread engagement by using the correct length. Refer to spool instructions V3 for images showing the spool side vs. cord fastening side.

For questions or more information:

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