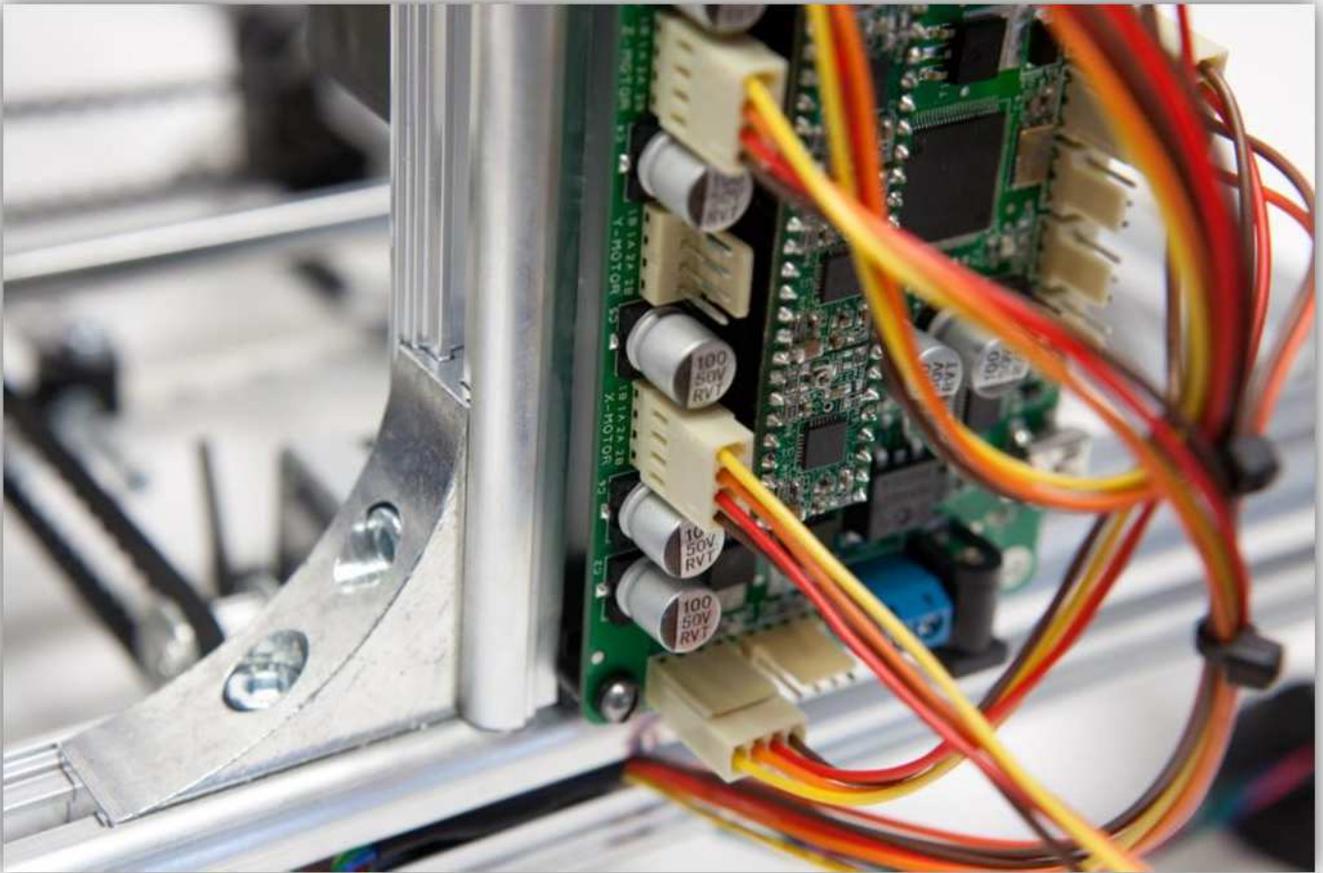


017 – WIRING THE X AXIS MOTOR AND MICRO SWITCH

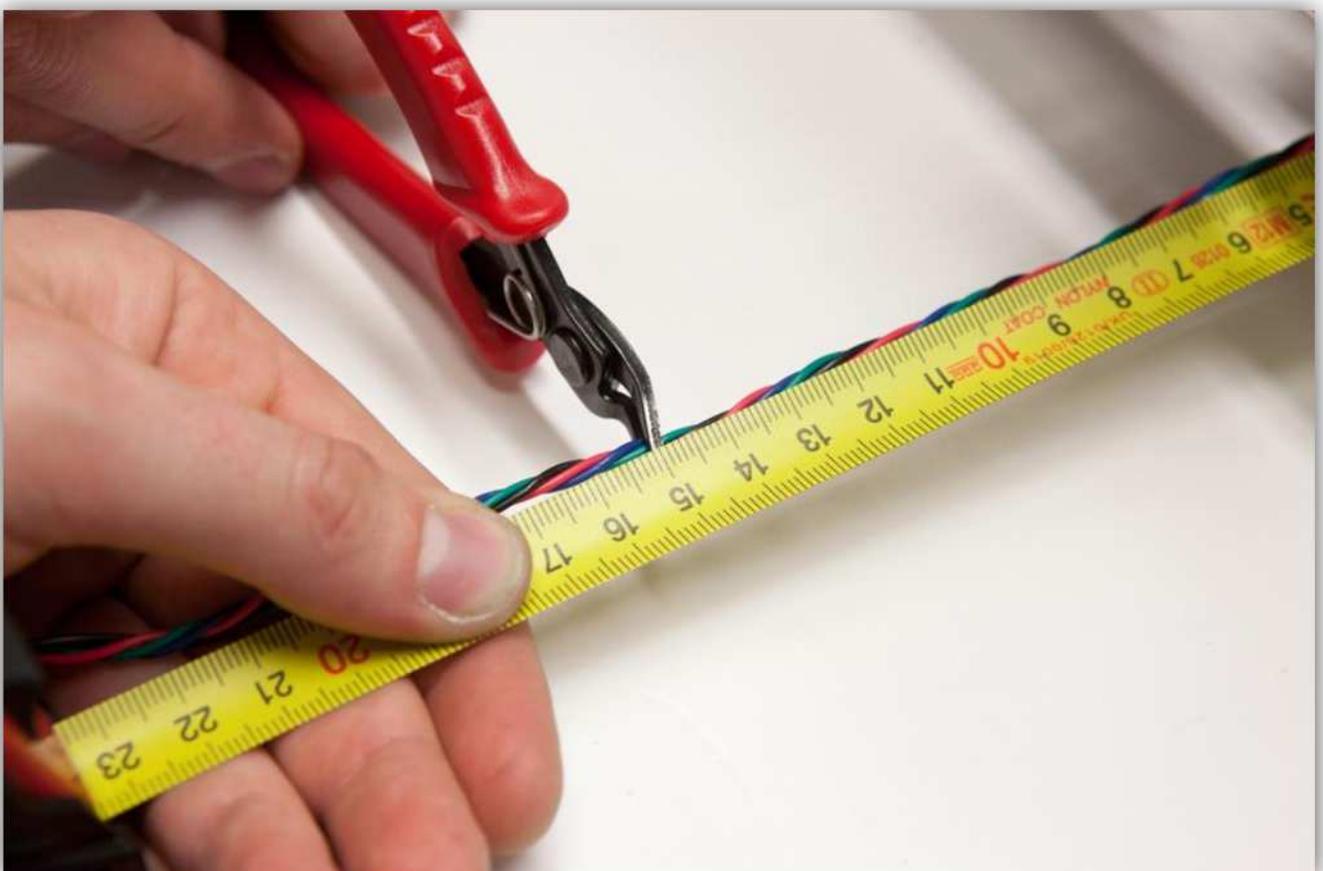
Take a board to wire connector with 4 wires out of the bag labelled with 40.



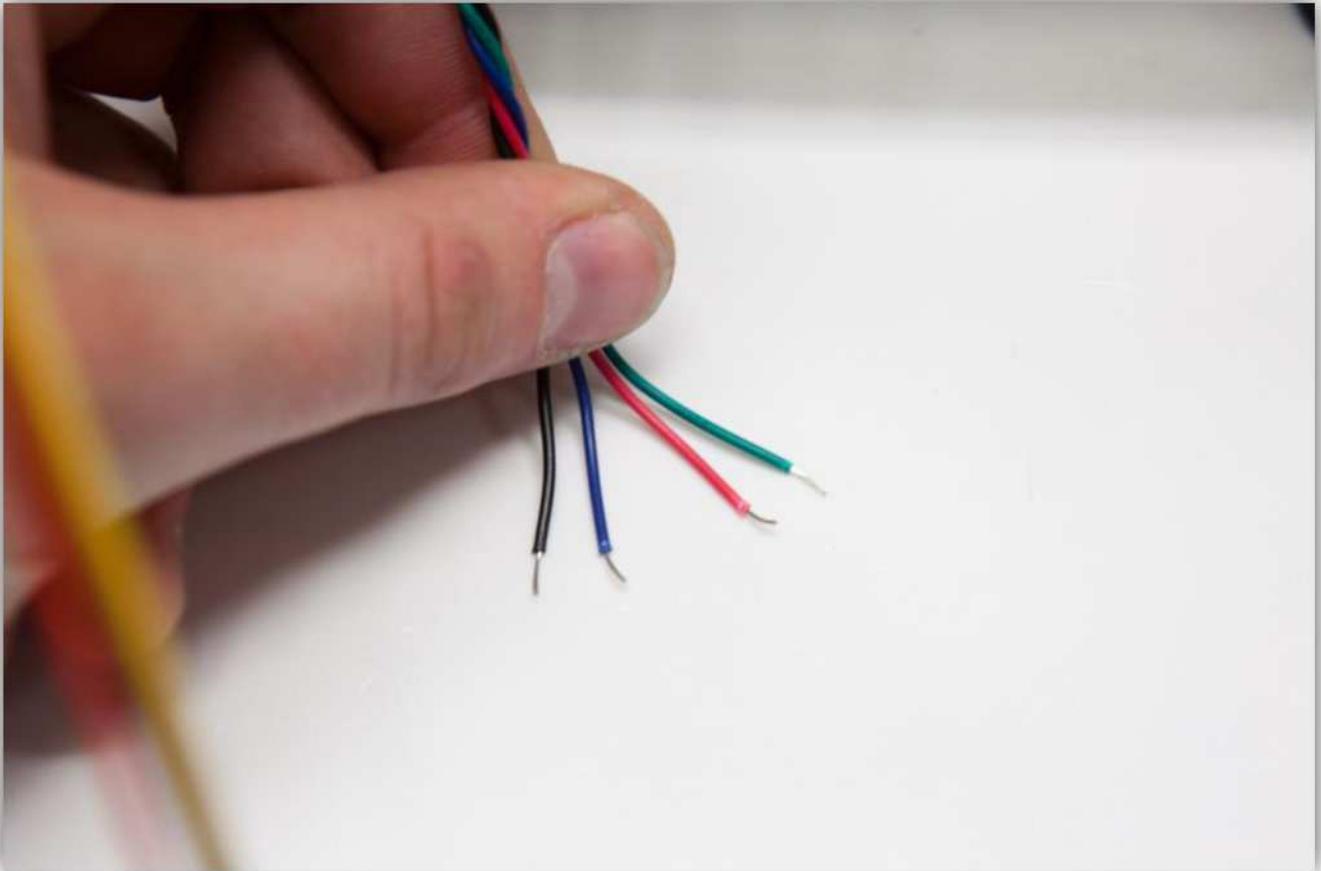
Plug the female connector in the male connector labelled with X-MOTOR on the controller board.



Cut the wires of the X axis motor down to about 15 cm (5,9").



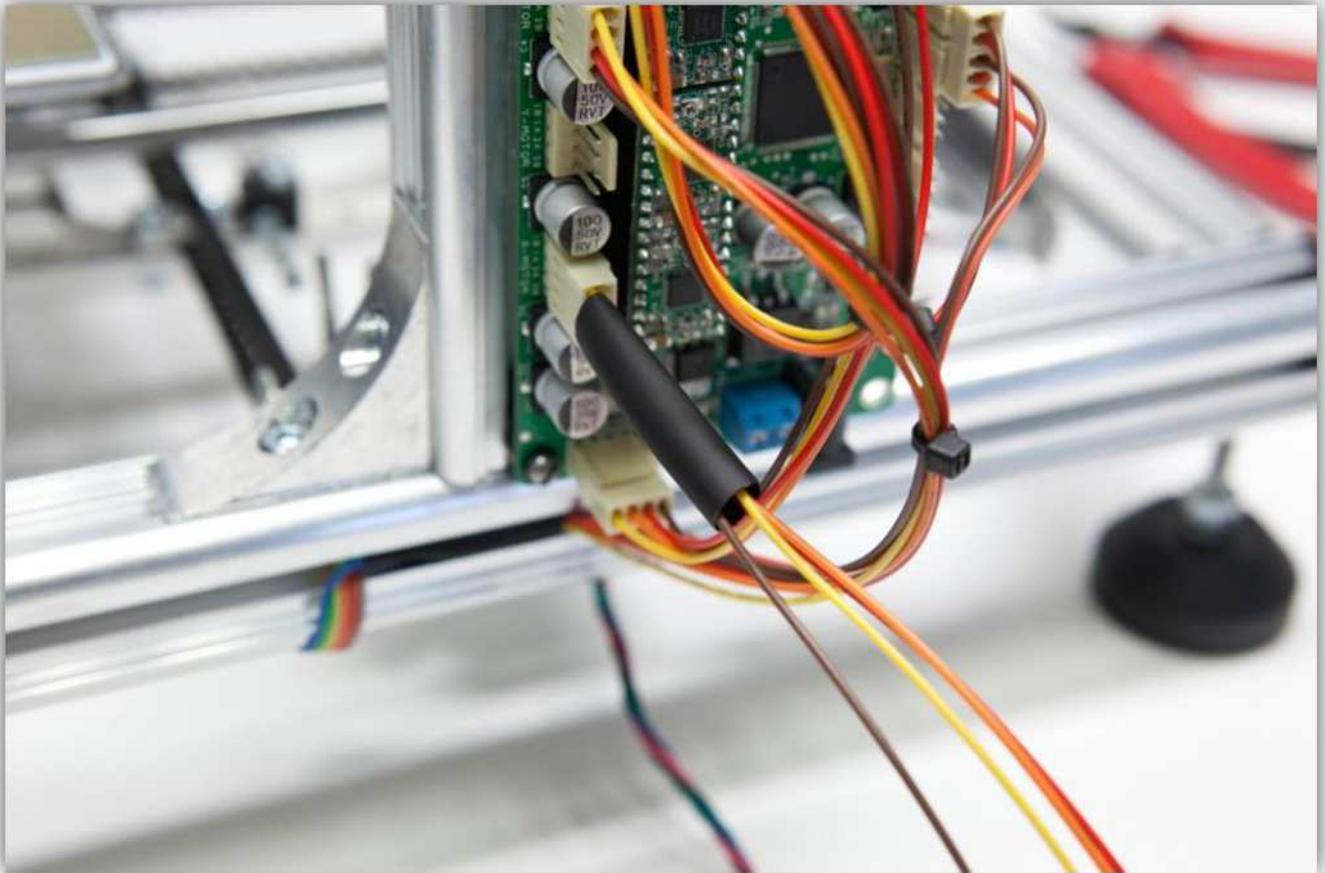
Strip the wires 5 mm (0.2") and tin them.



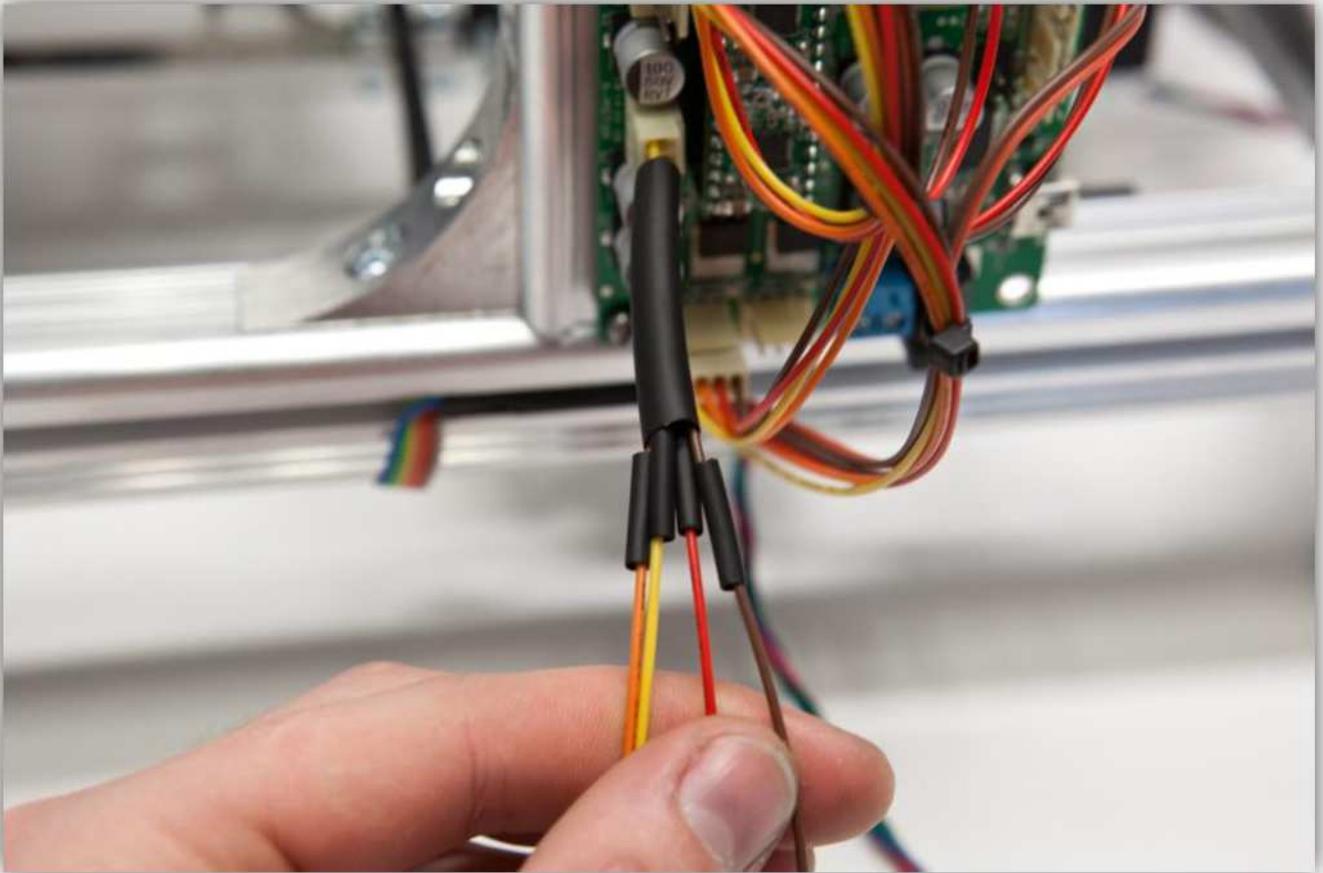
Cut 4 small pieces of the smallest heat shrink tubing of 1.5 cm (0.59") long and 1 large piece of the biggest heat shrink tubing of 4 cm (1.57"). You can find the heat shrink tubing in the bag labelled with 40.



Slide the big heat shrink tube over the 4 wires of the connector.



Slide the 4 small heat shrink tubes over the 4 wires of the connector.



Solder the 4 wires from the motor to the 4 wires of the connector you tinned earlier. **Watch the colours closely.**

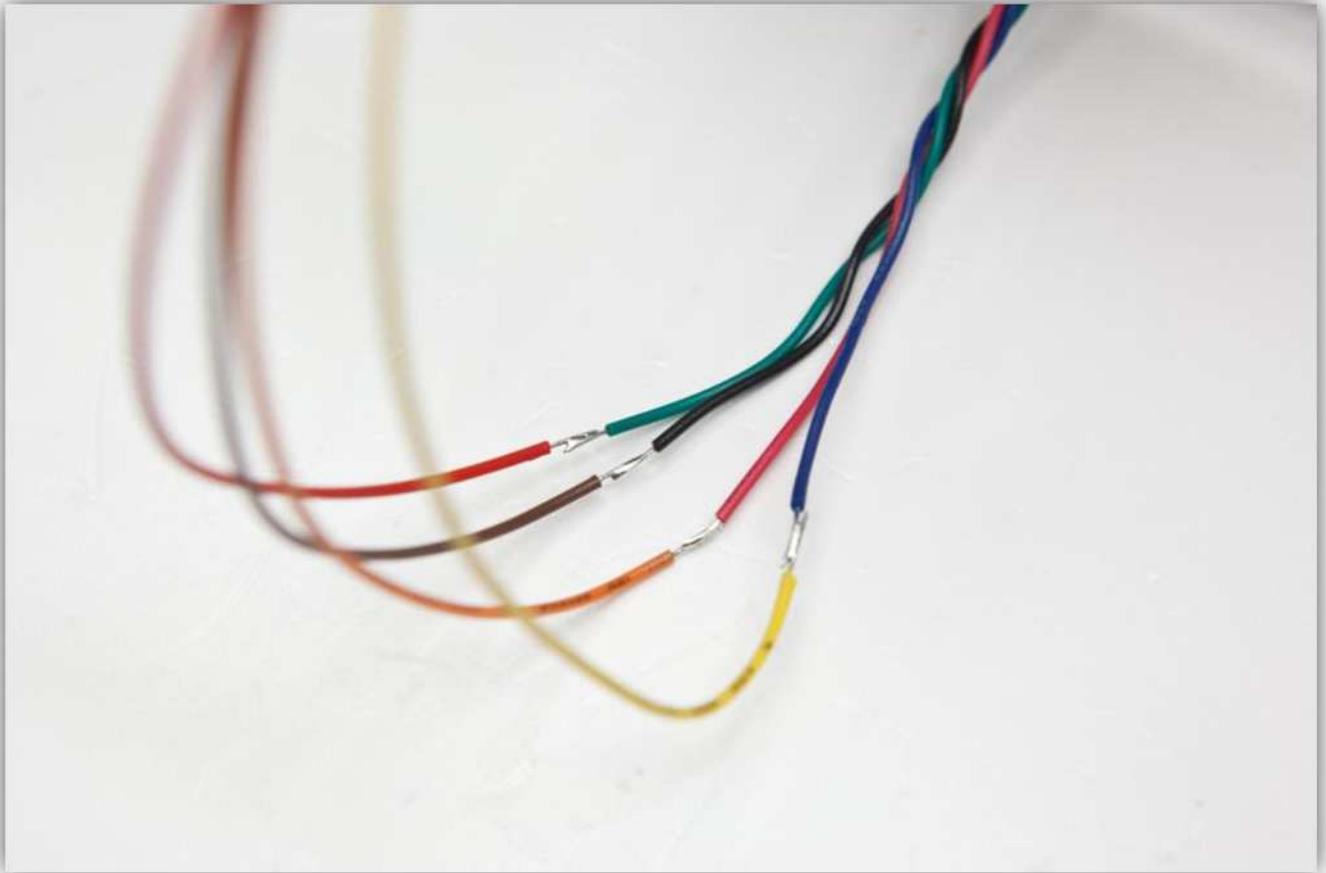
Connector cable -> **Motor wires**

Yellow -> **Blue**

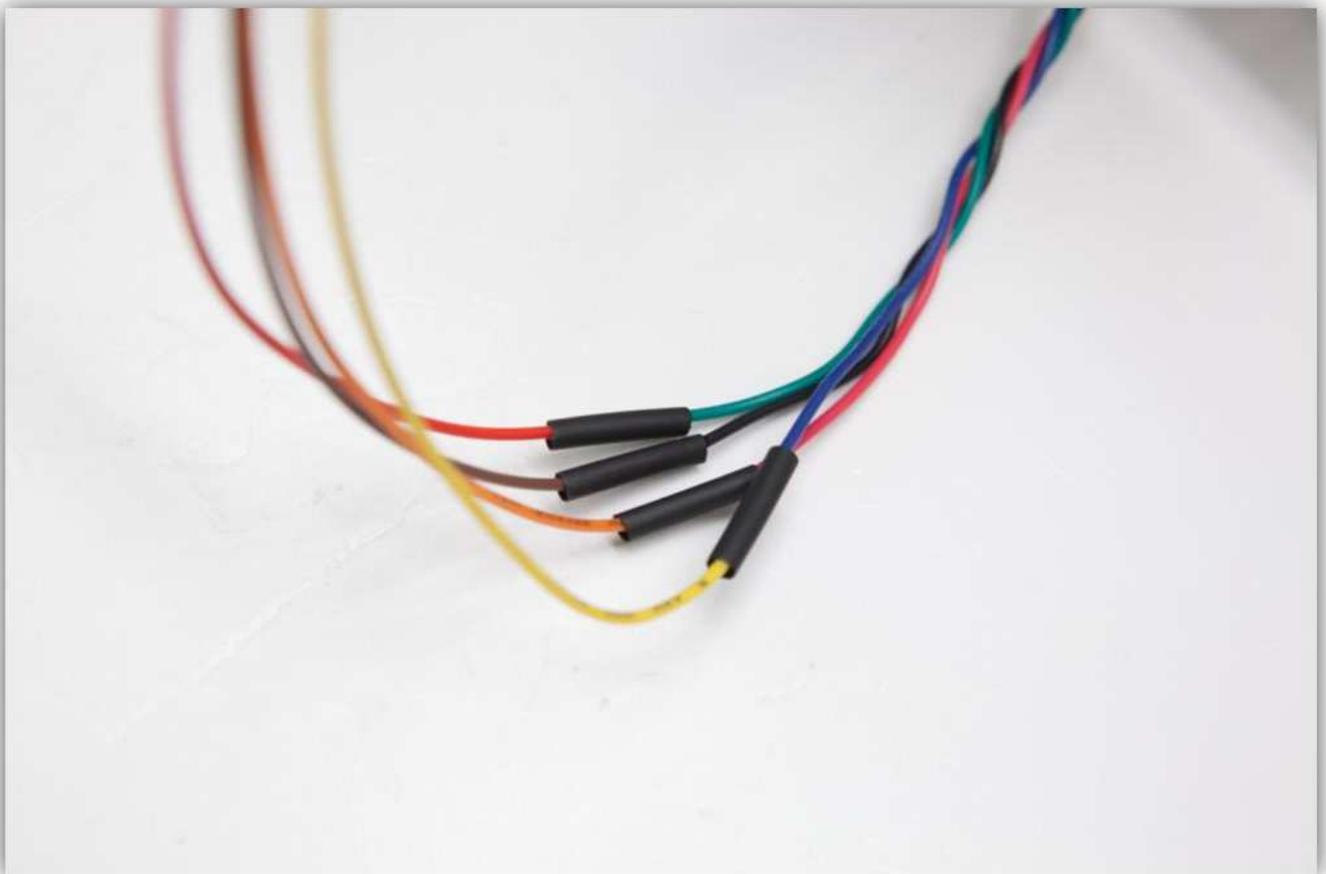
Orange -> **Red**

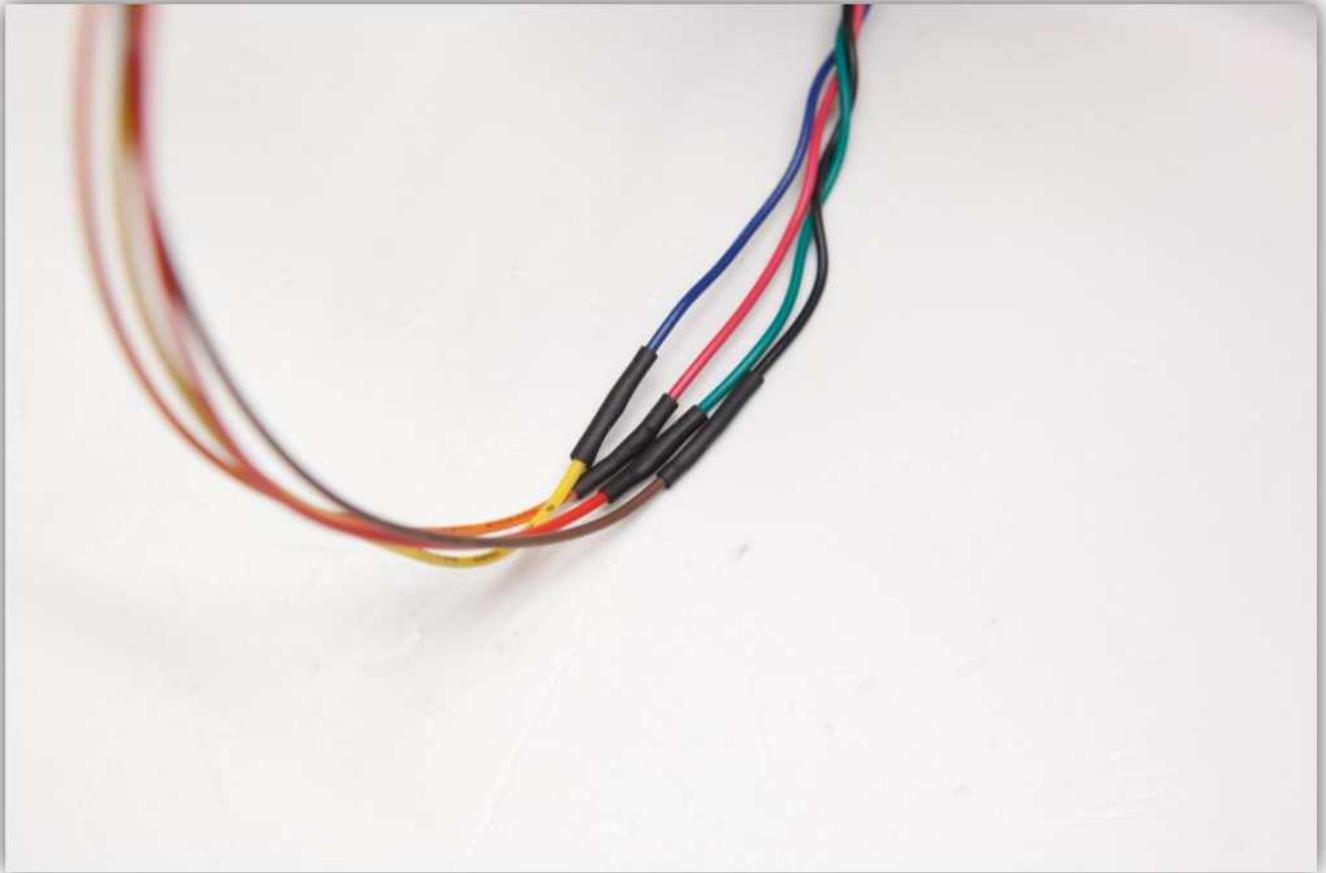
Red -> **Green**

Brown -> **Black**

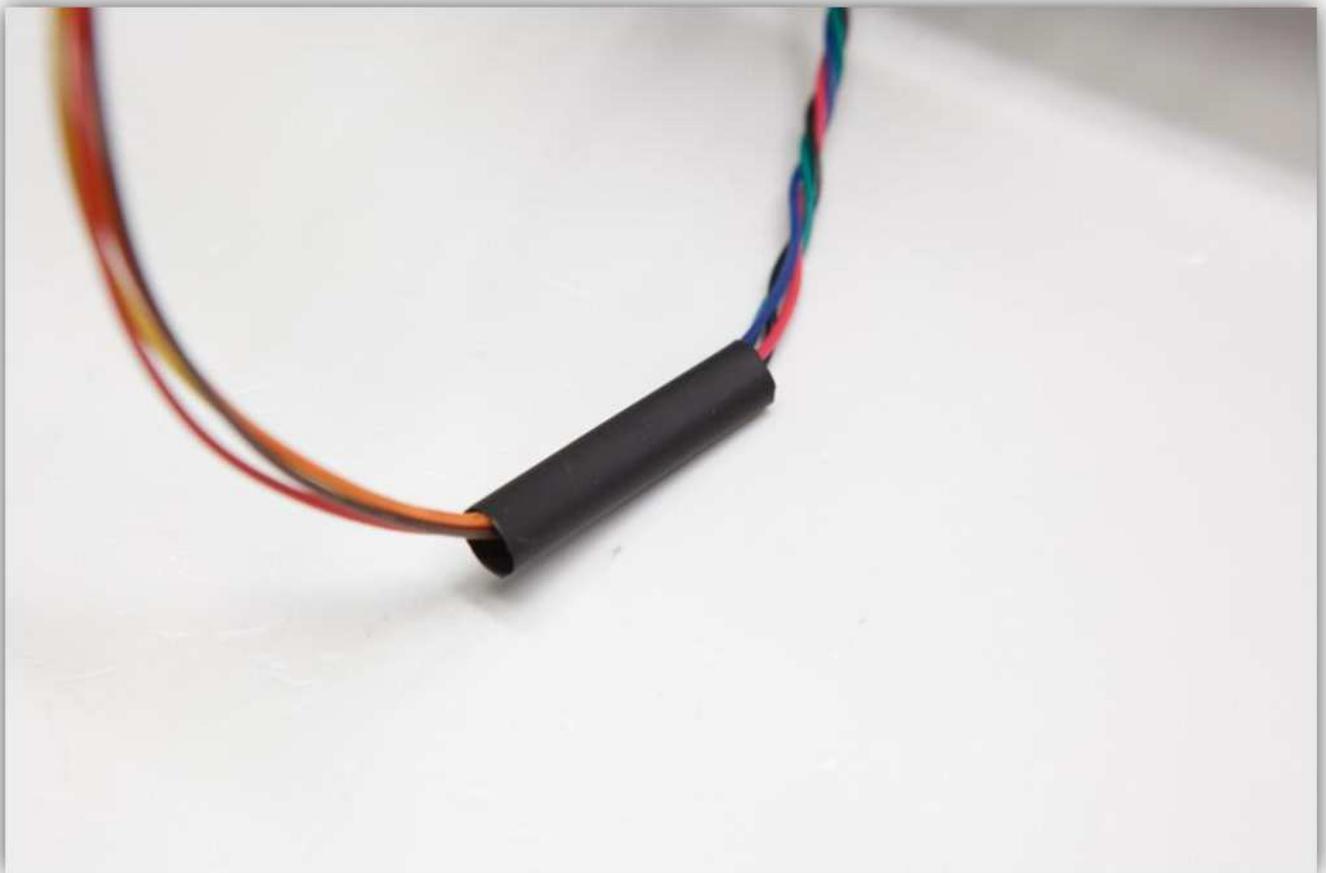


Slide the small heat shrink tubes over the solder joints and heat them up so they shrink.

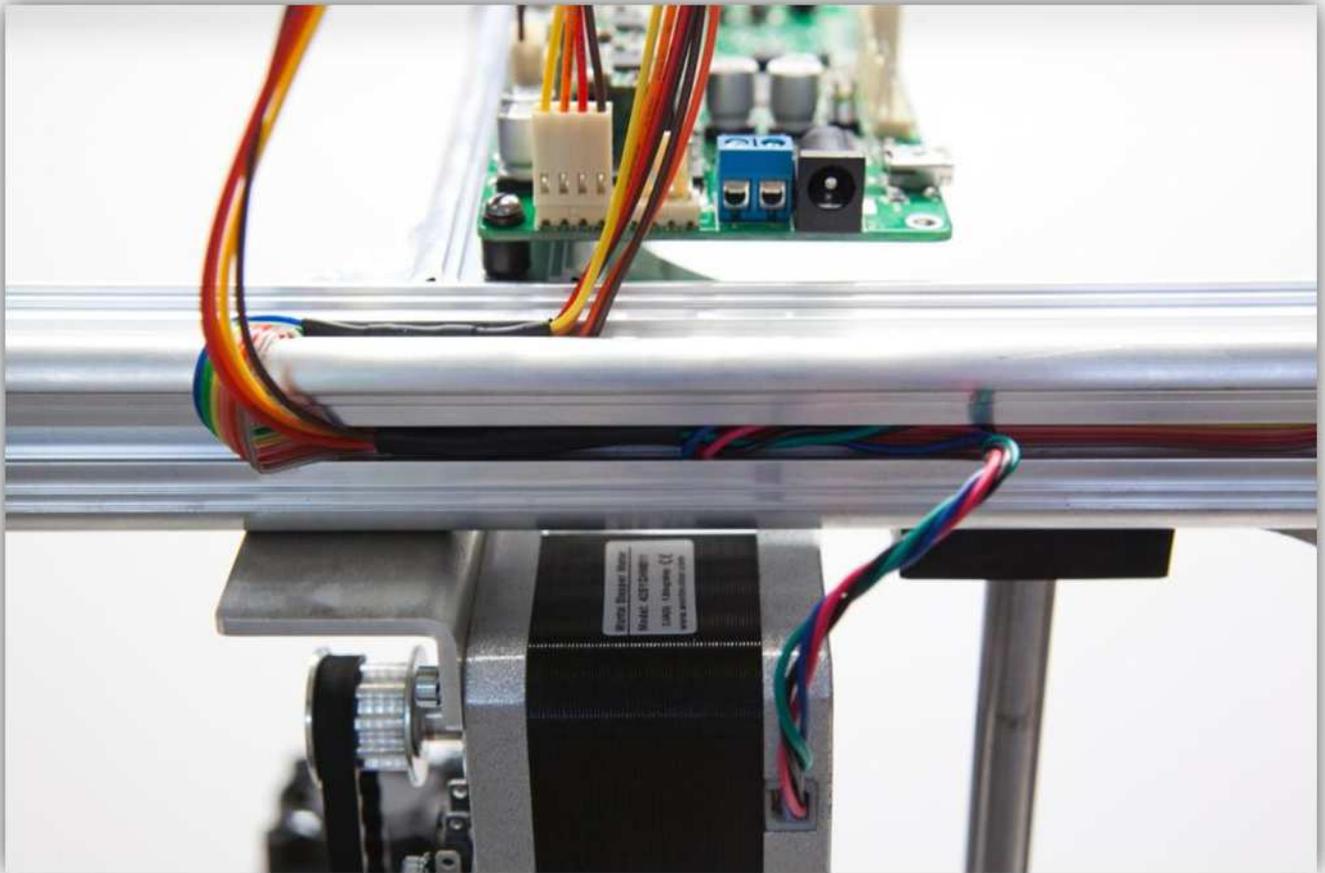




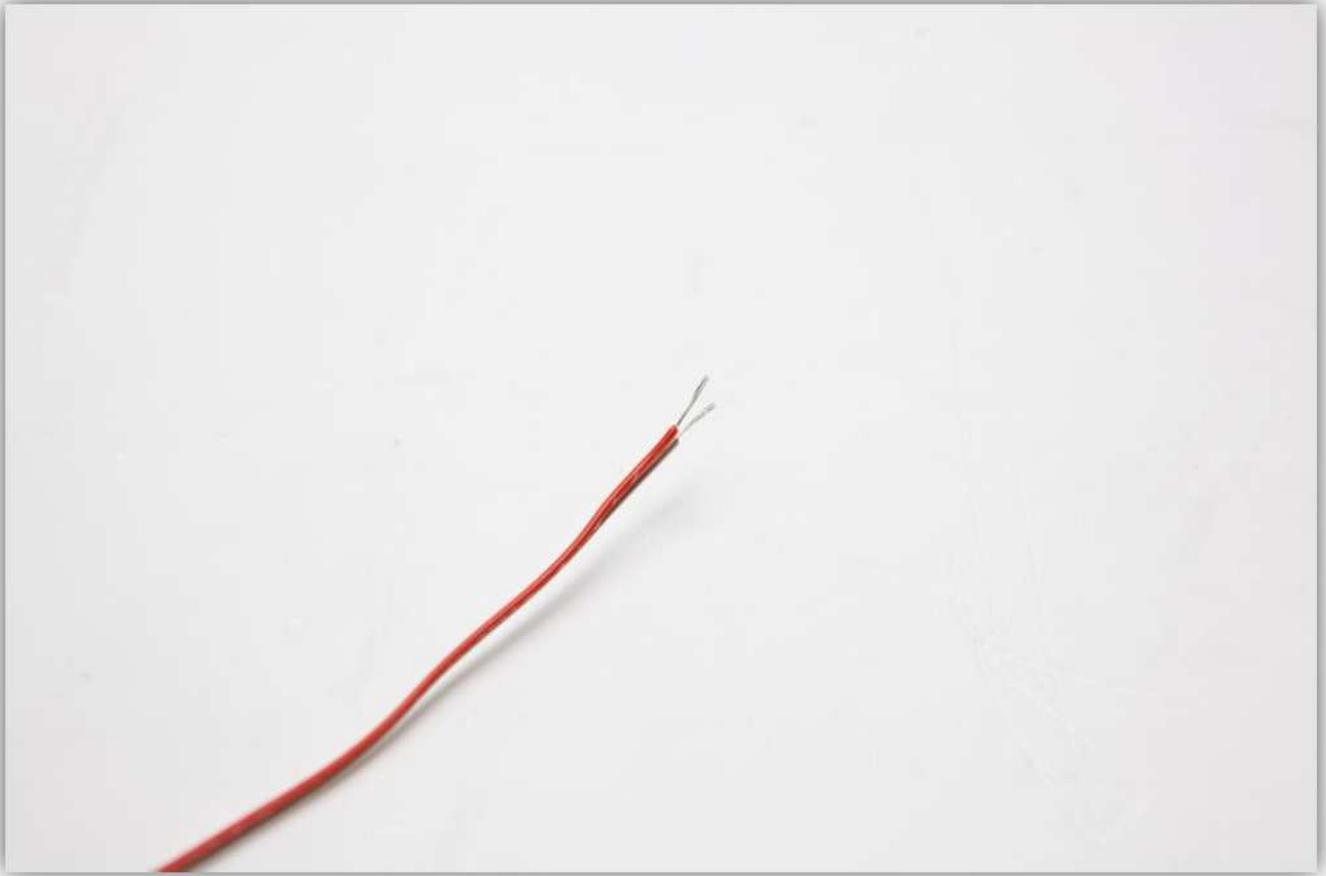
Now slide the big piece of heat shrink tubing over the 4 small pieces, heat the big piece so it covers and protects the 4 heat shrunk joints.



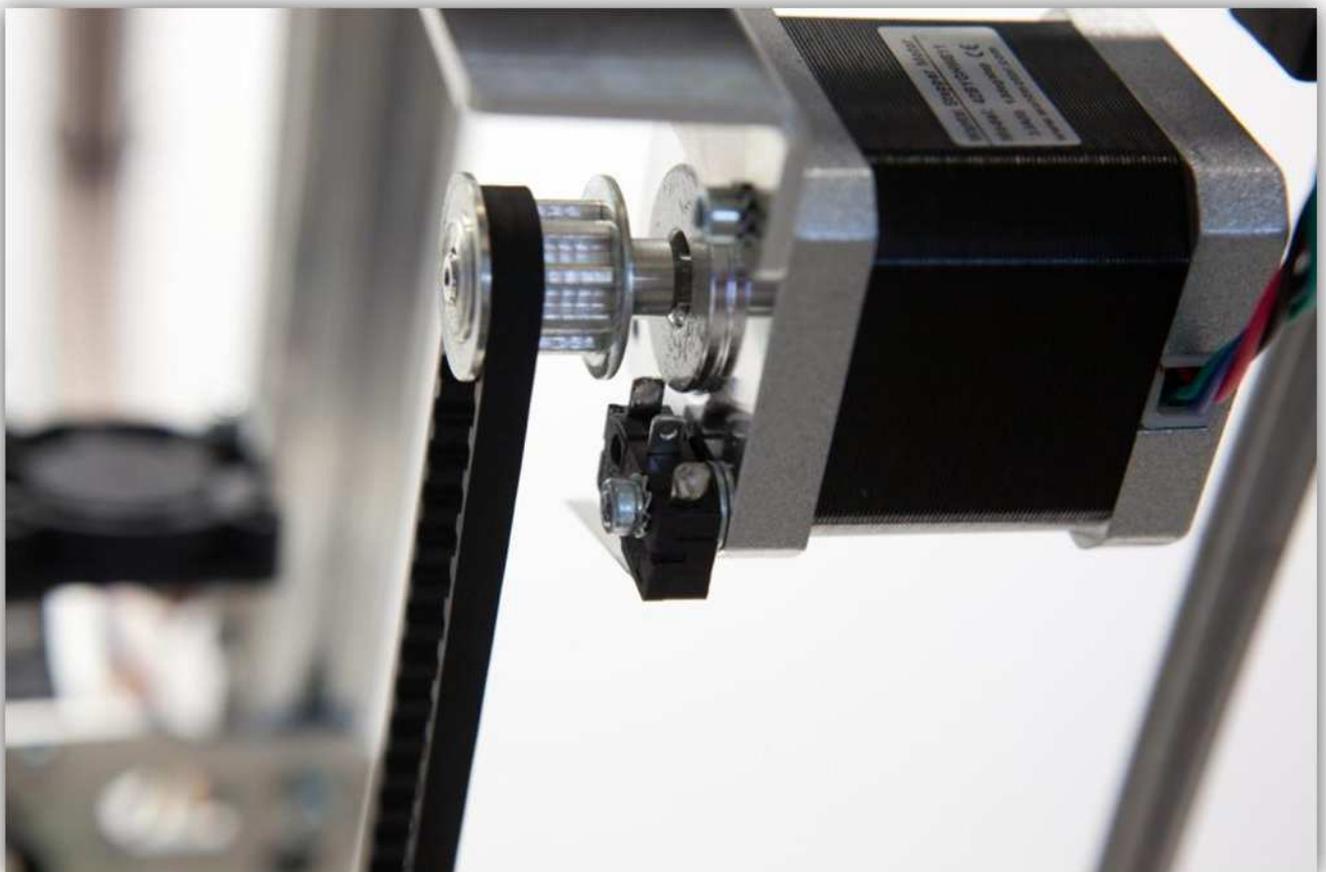
Tuck the excess cable into the void in the profiles.



Take a piece of **Red** and **Brown** wire that you detached from the flat cable earlier. Strip the ends 5 mm (0.2") and tin them.



Tin the contact points of the X micro switch. **Be careful and don't touch the belt with the hot soldering iron.**



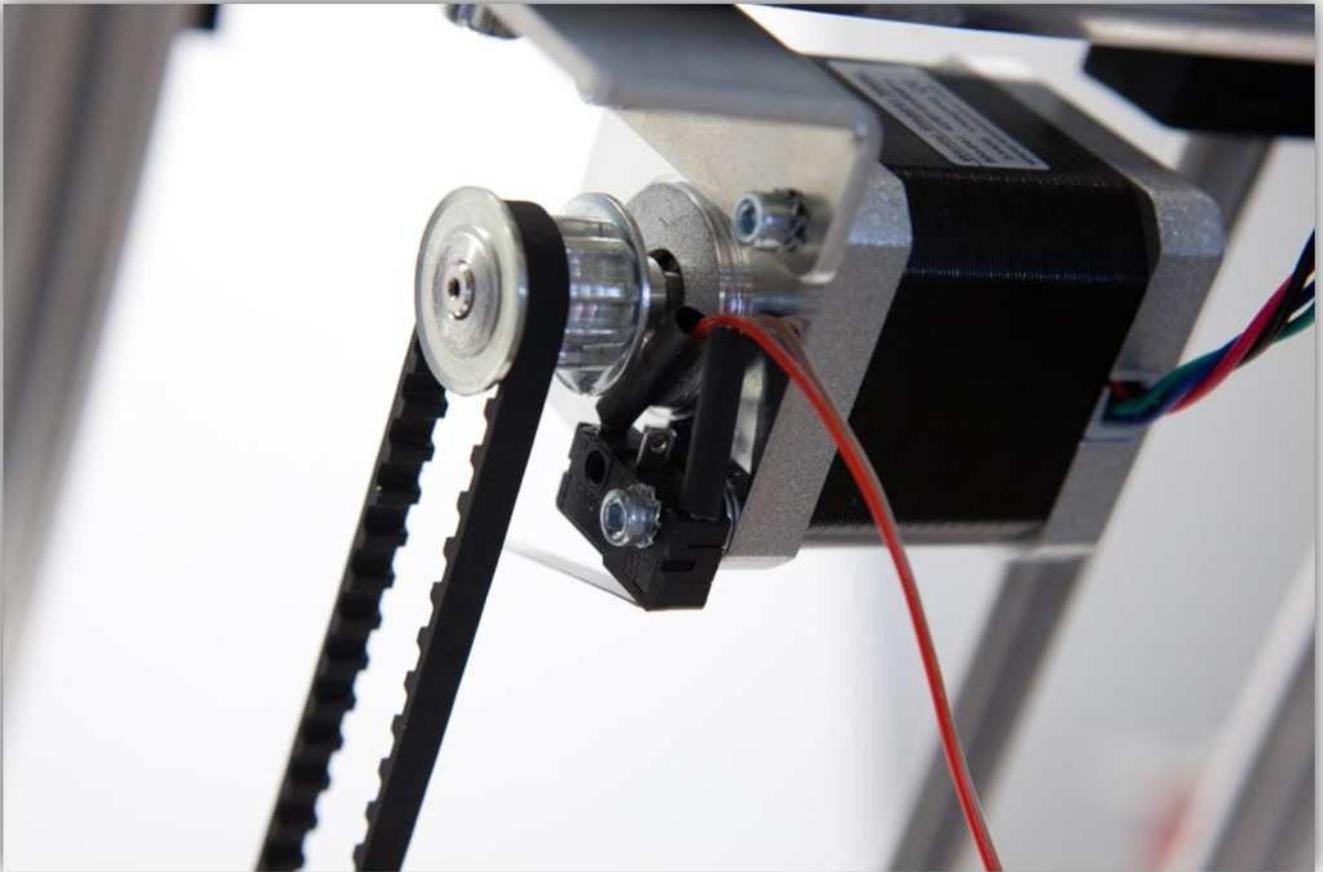
Cut 2 small pieces of the smallest heat shrink tubing of 1.5 cm (0.59") long.



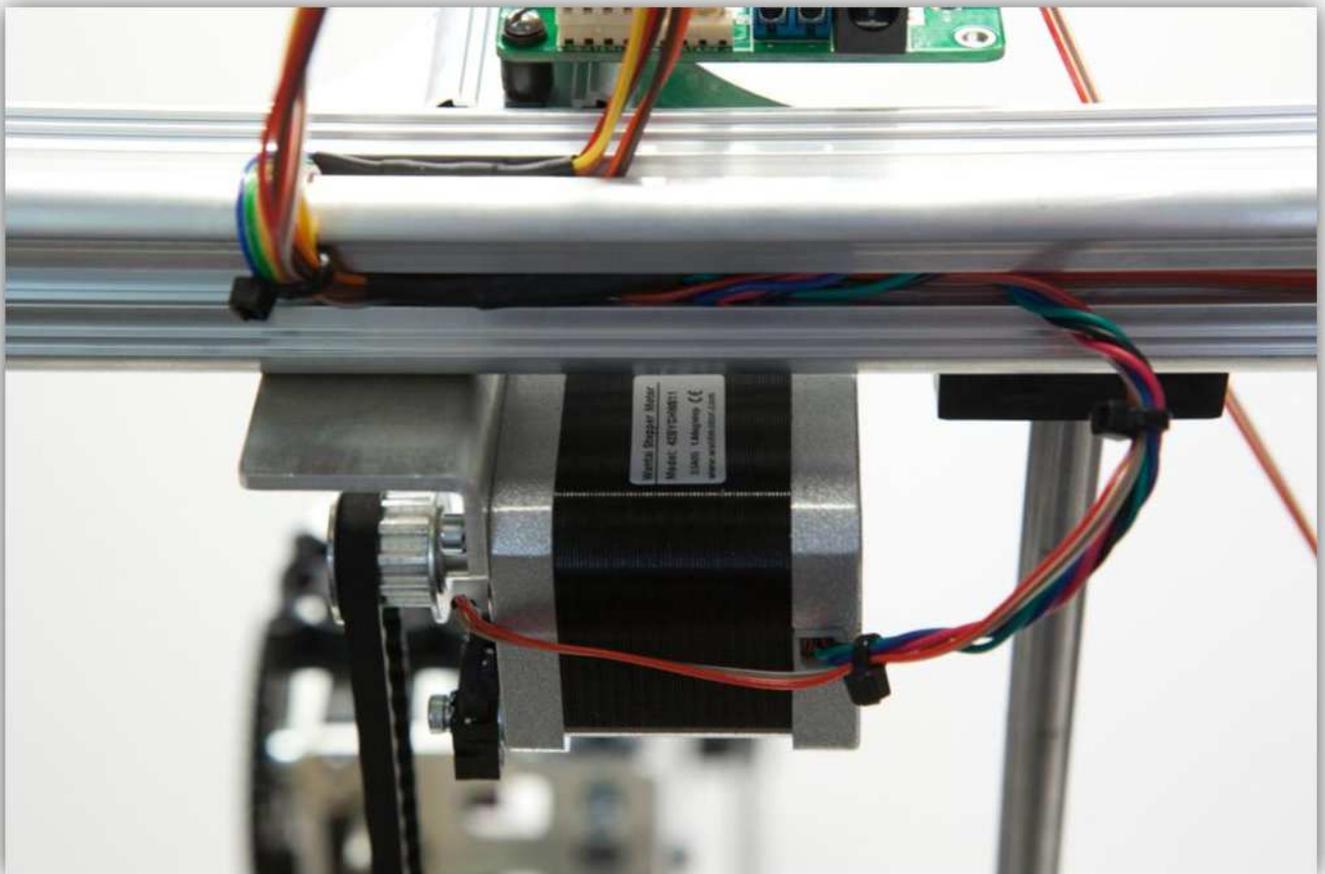
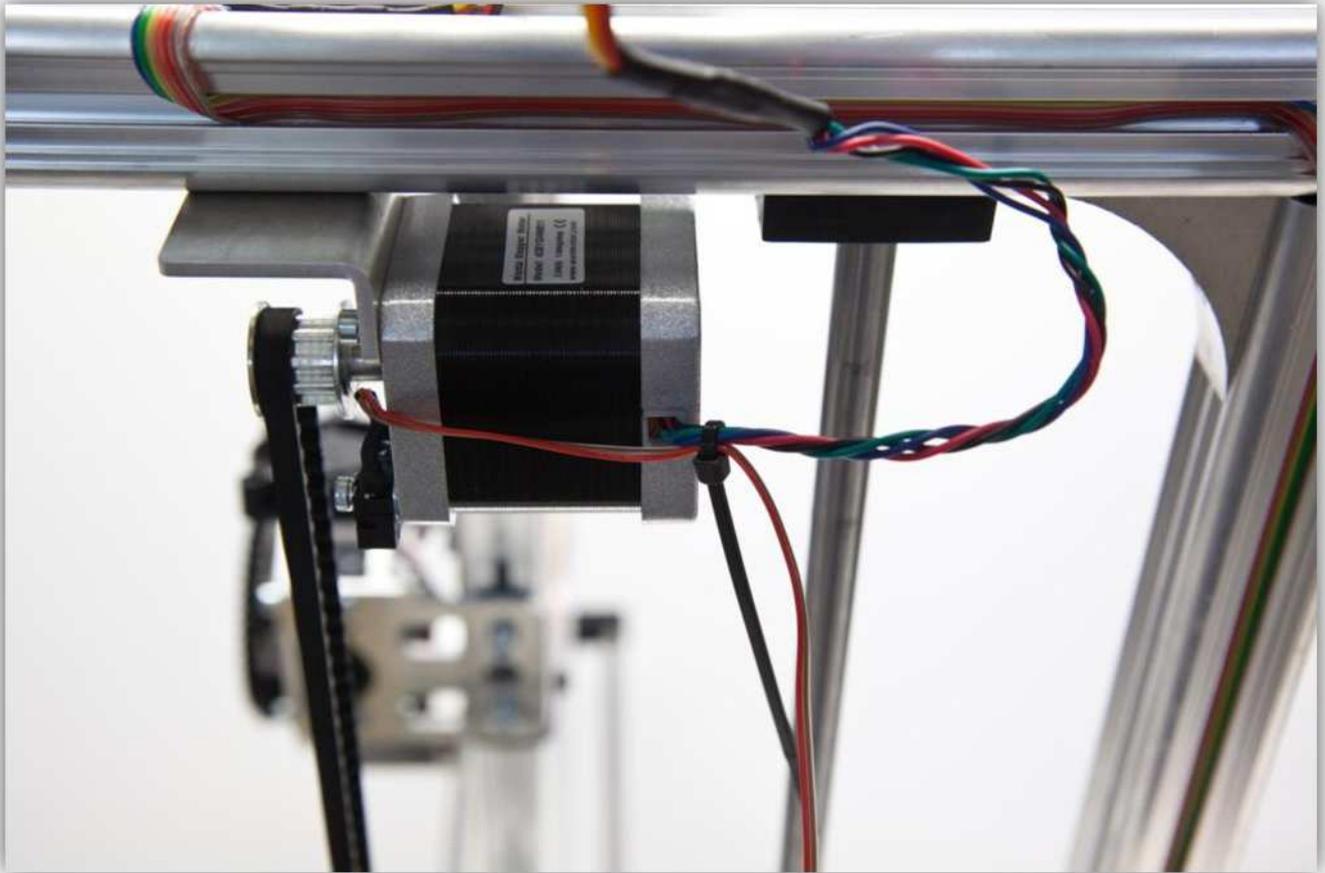
Slide them over the ends of the **Red** and **Brown** wire you tinned earlier.



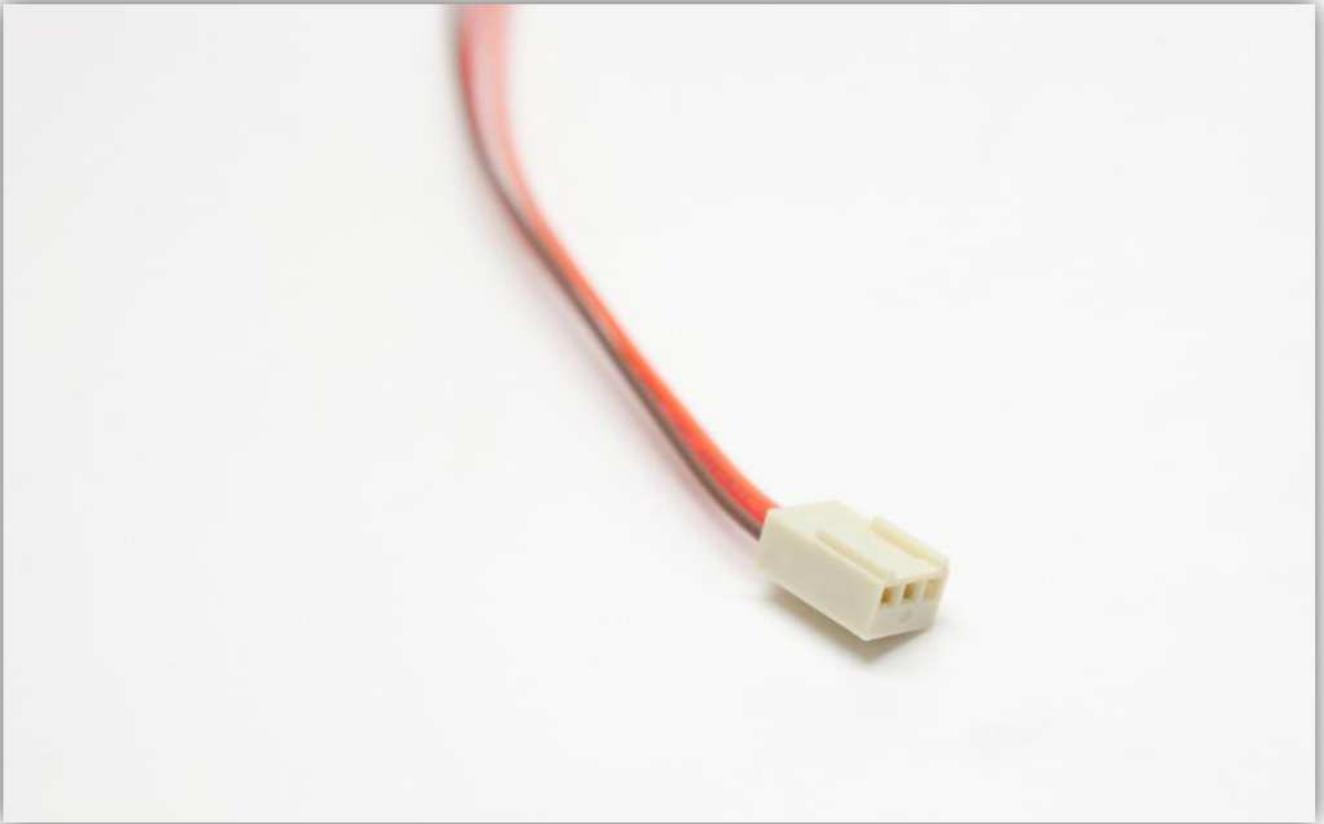
Solder the wires to the contact points of the micro switch, slide the heat shrink tubes over the contacts and shrink them.



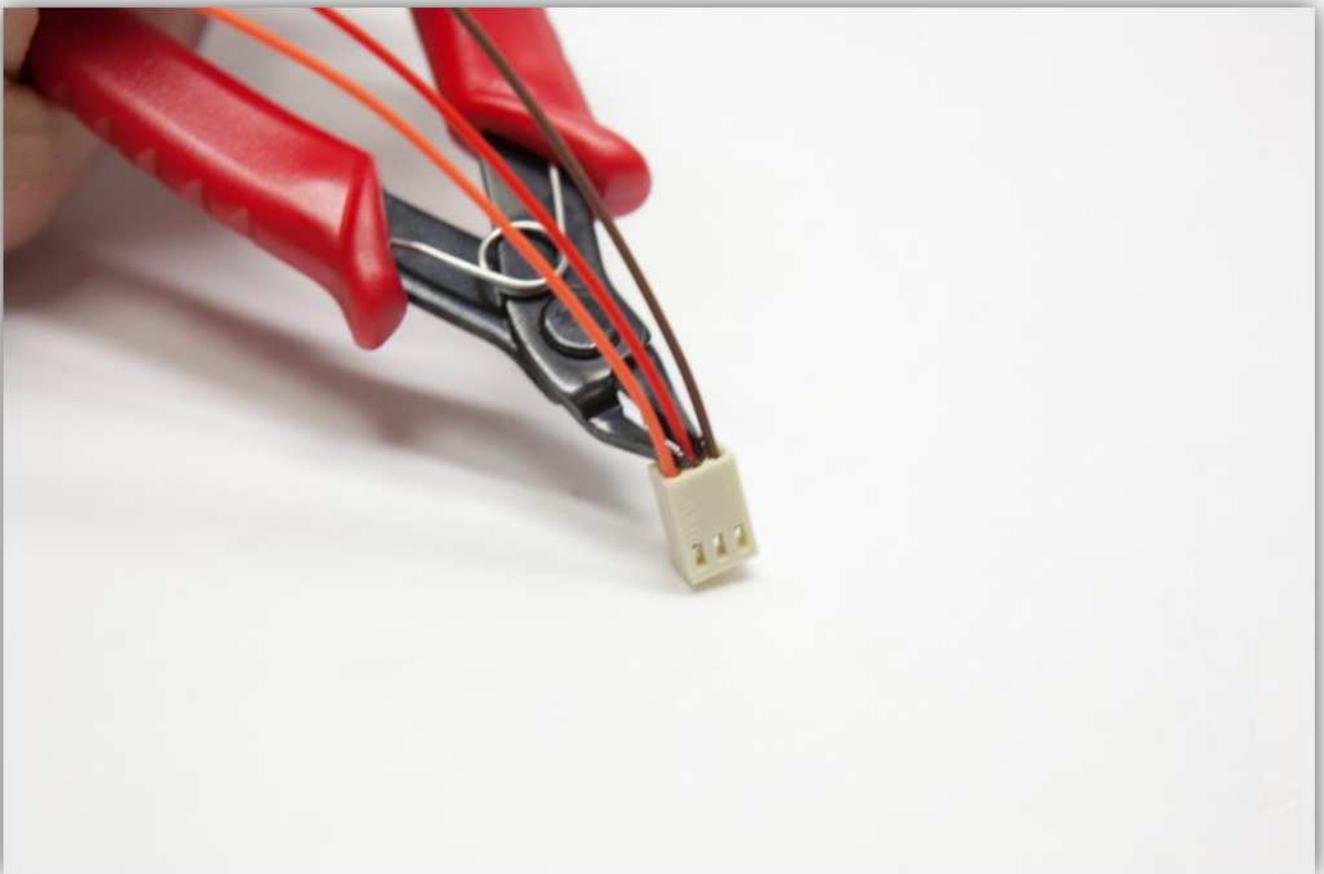
Use small tie-strips to hold the **Red** and **Brown** wire in place.

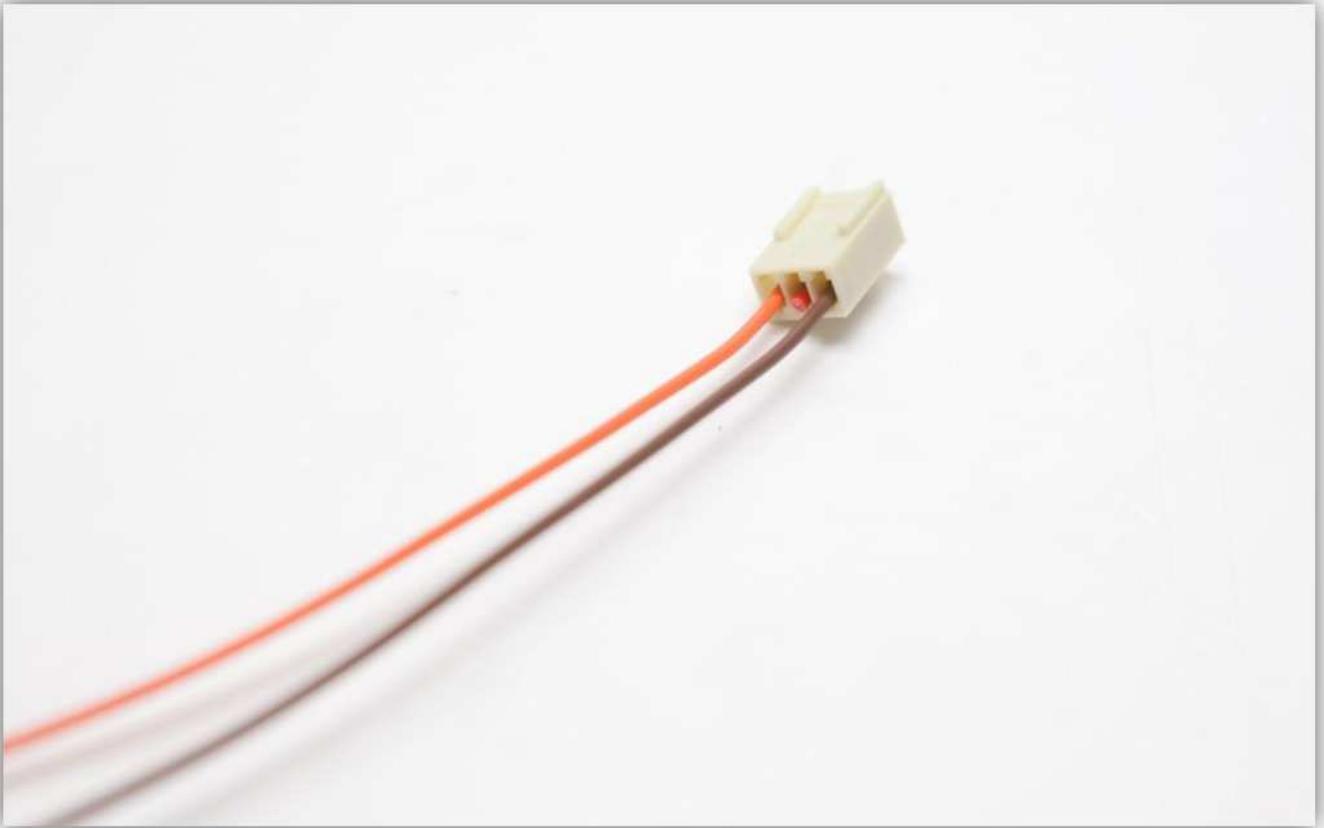


Take a board to wire connector with 3 wires out of the bag labelled with 40.

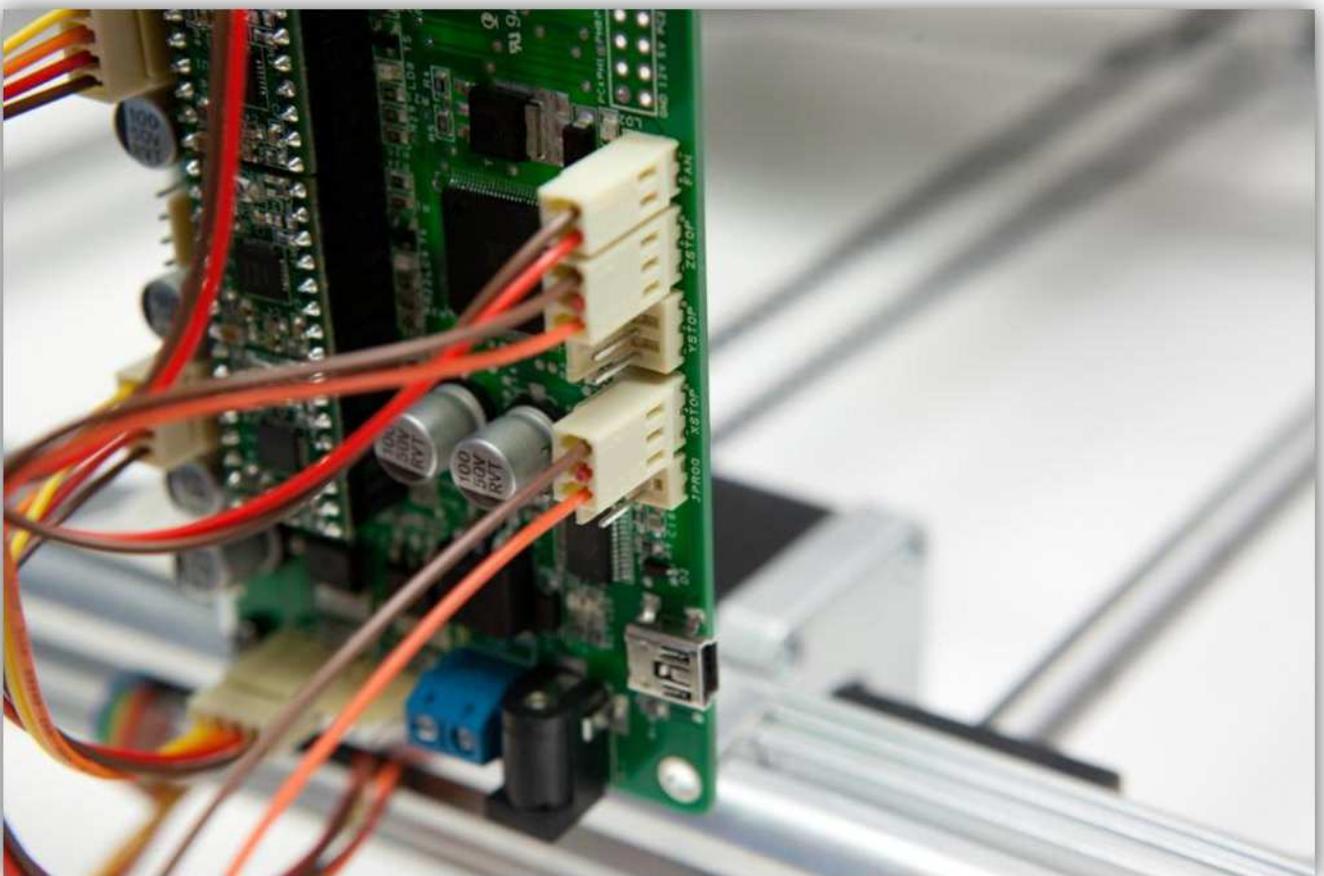


Cut the middle wire away at the connector.

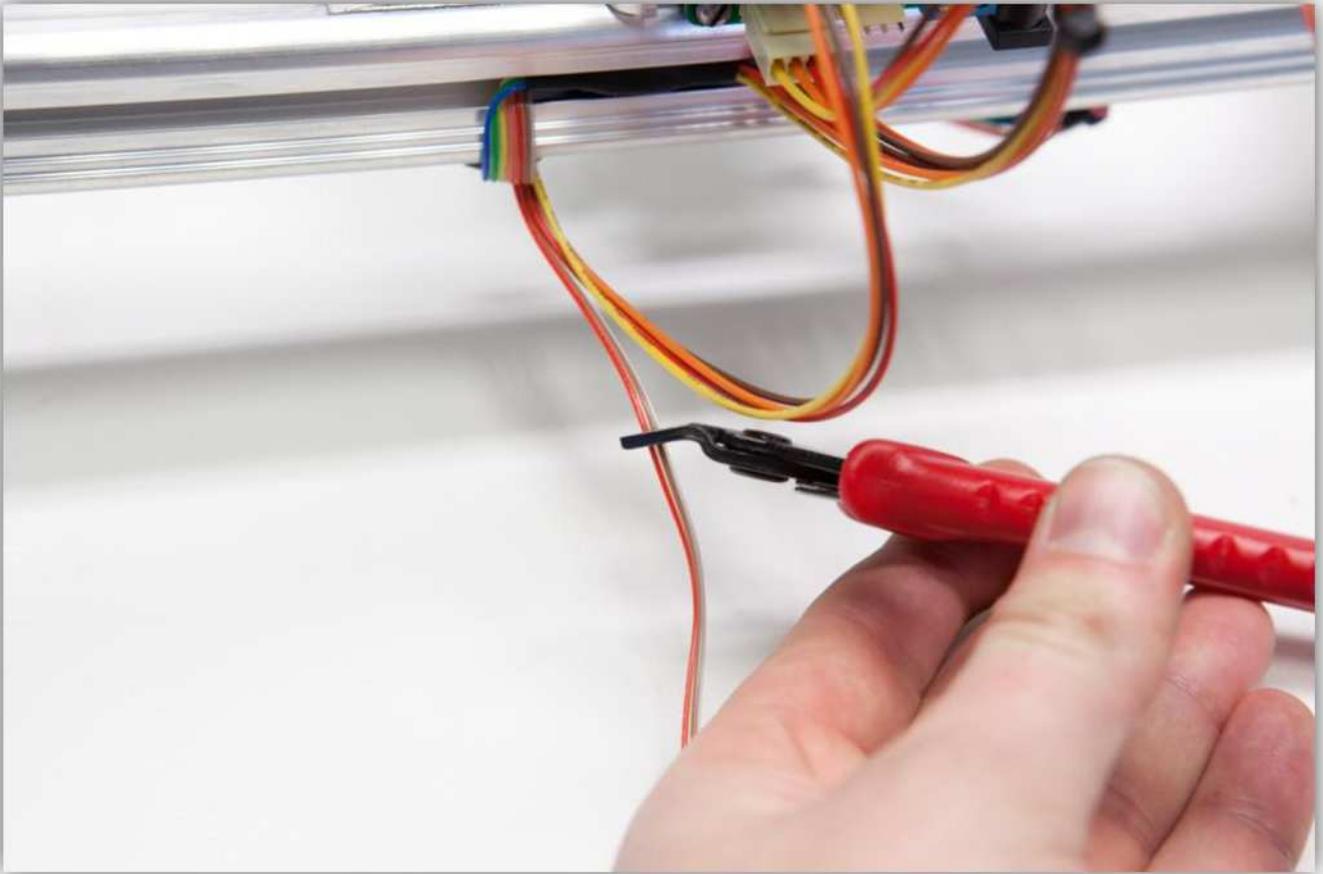




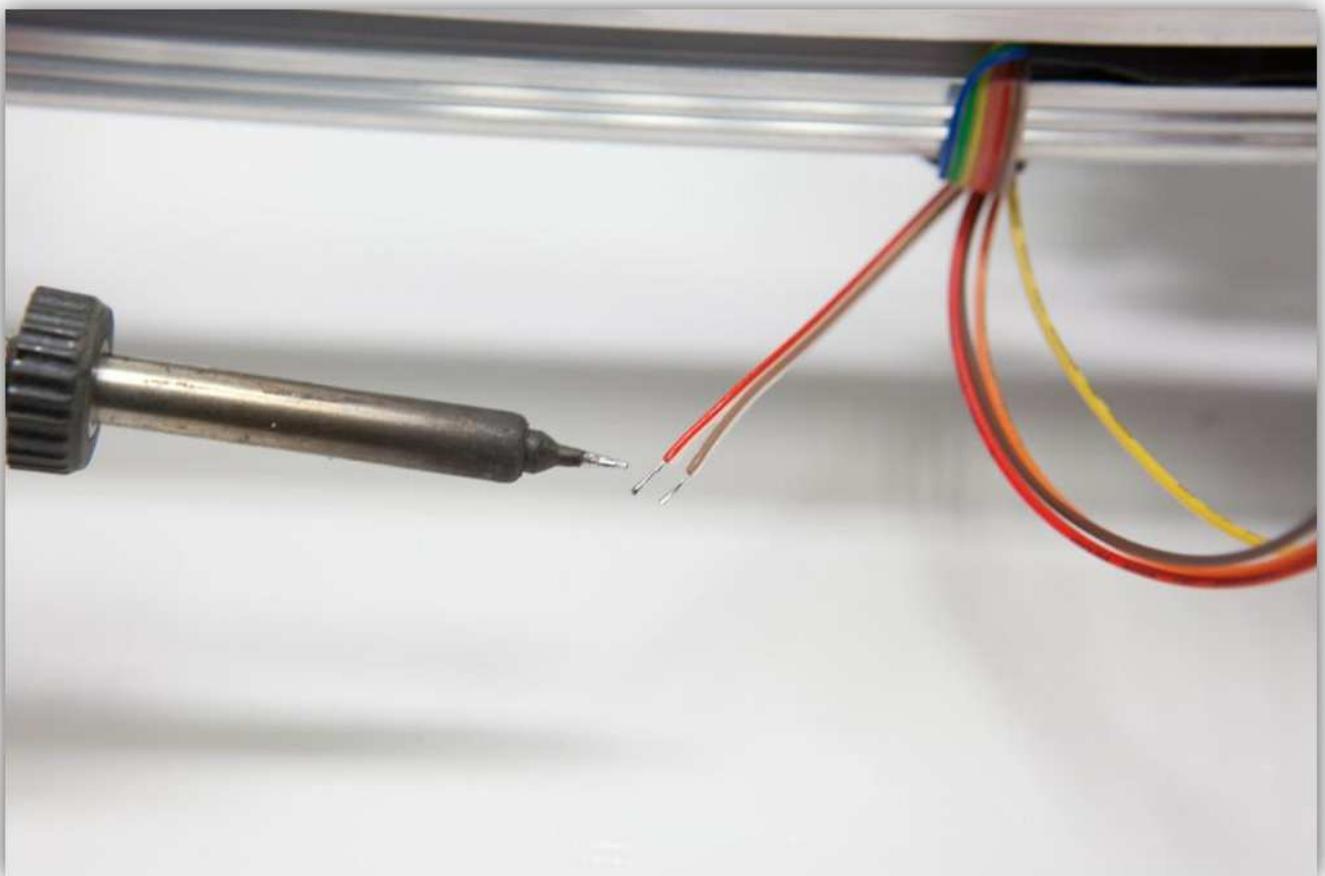
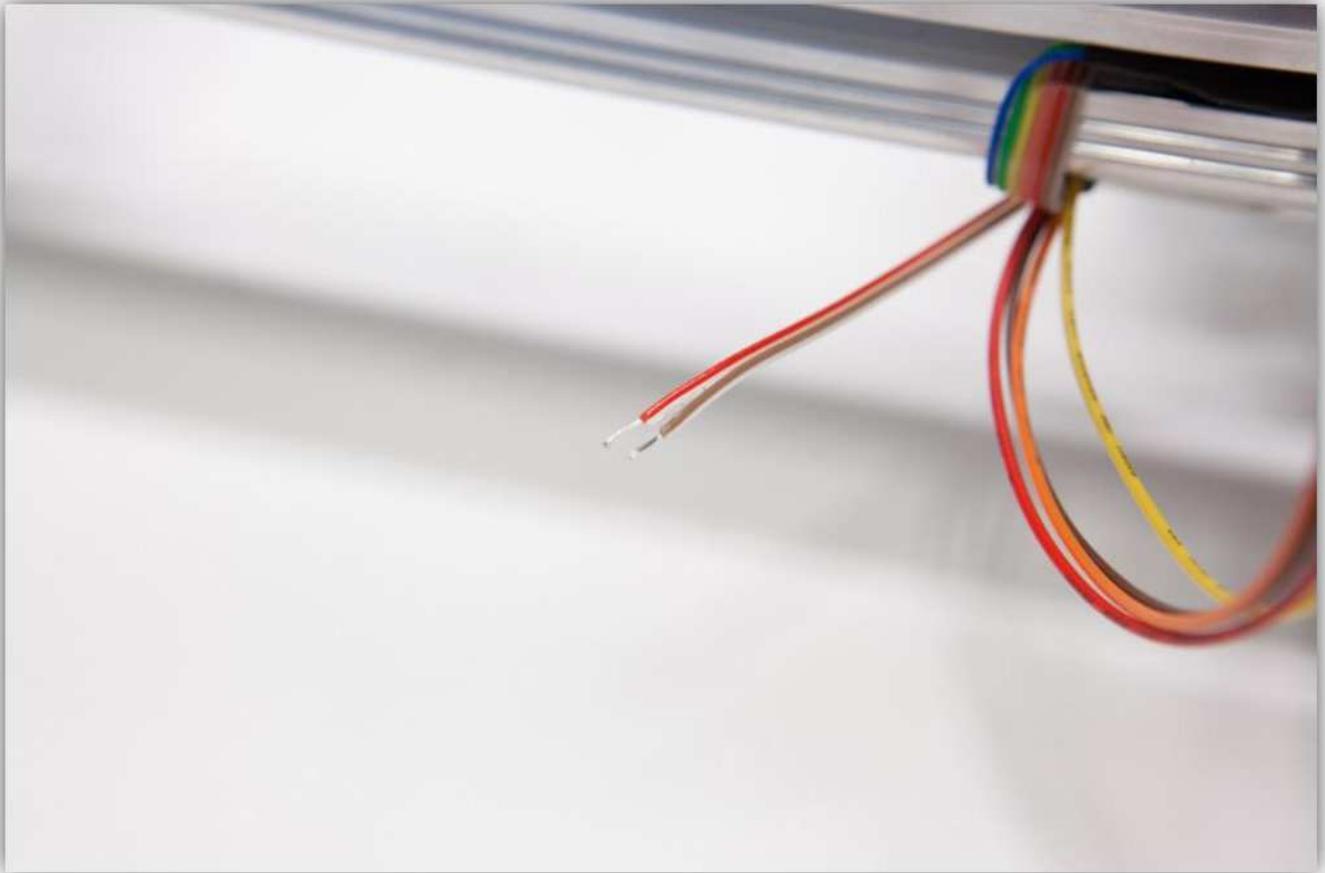
Plug the female connector in the male connector labelled with XSTOP on the controller board.



Cut the **Red** and **Brown** wire from the X micro switch so that it can connect to the wires of the connector you just plugged in.



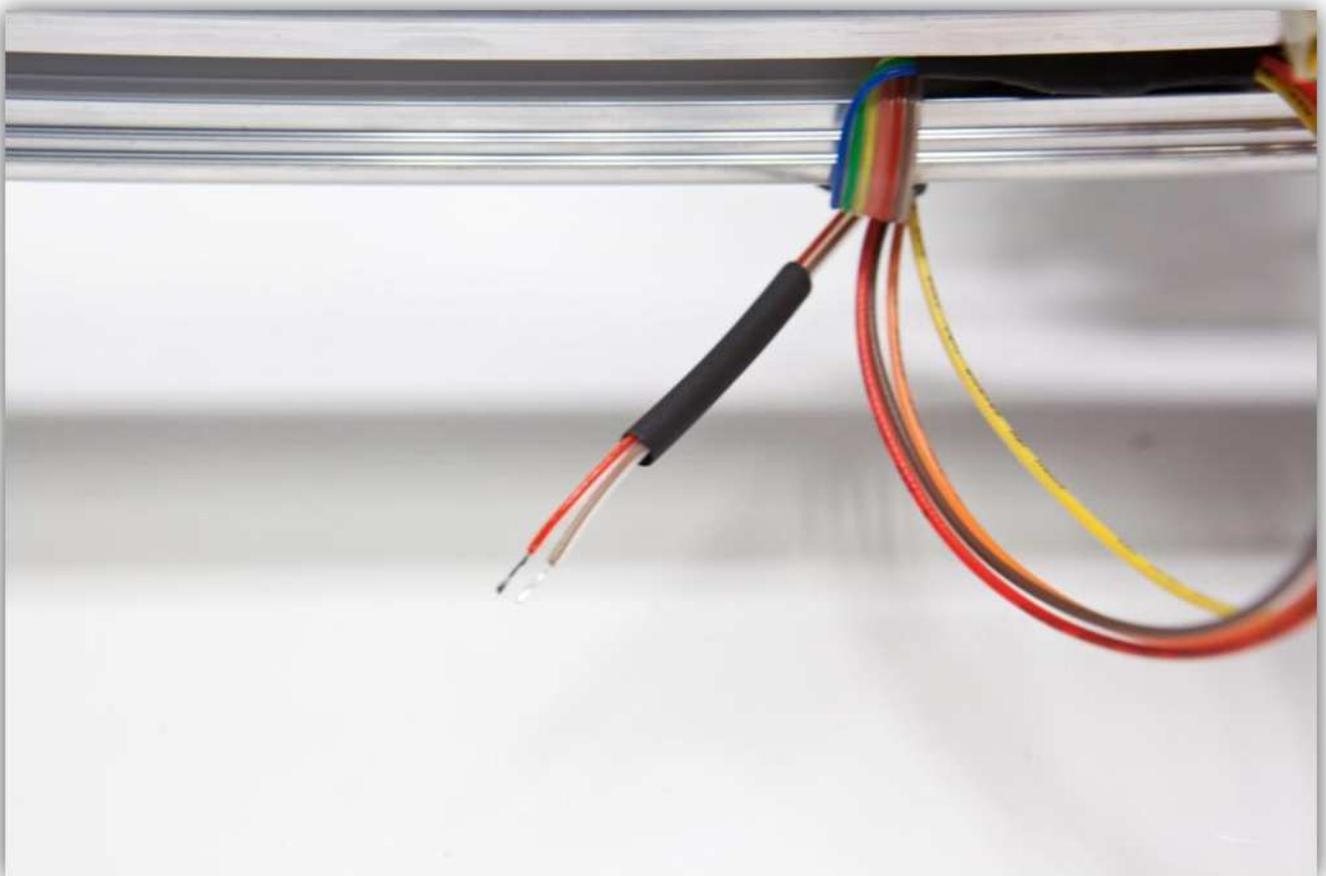
Strip 5 mm (0.2") and tin the ends of these wires.



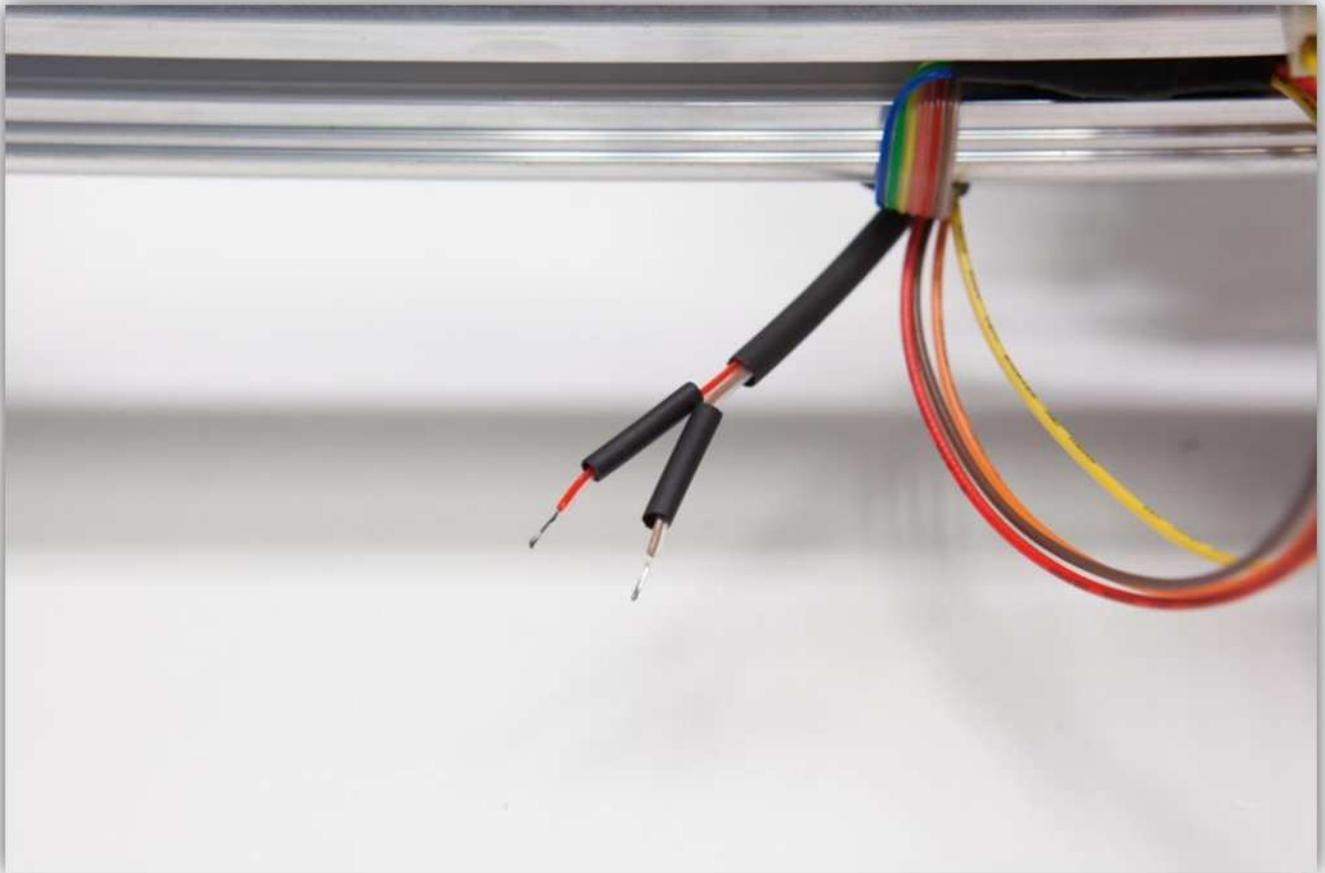
Cut 2 small pieces of the smallest heat shrink tubing of 1.5 cm (0.59") long and 1 large piece of the medium size heat shrink tubing of 4 cm (1.57"). You can find the heat shrink tubing in the bag labelled with 40.



Slide the medium size heat shrink tubes over the 2 wires of the connector.



Slide the 2 small heat shrink tubes over the 2 wires of the connector.

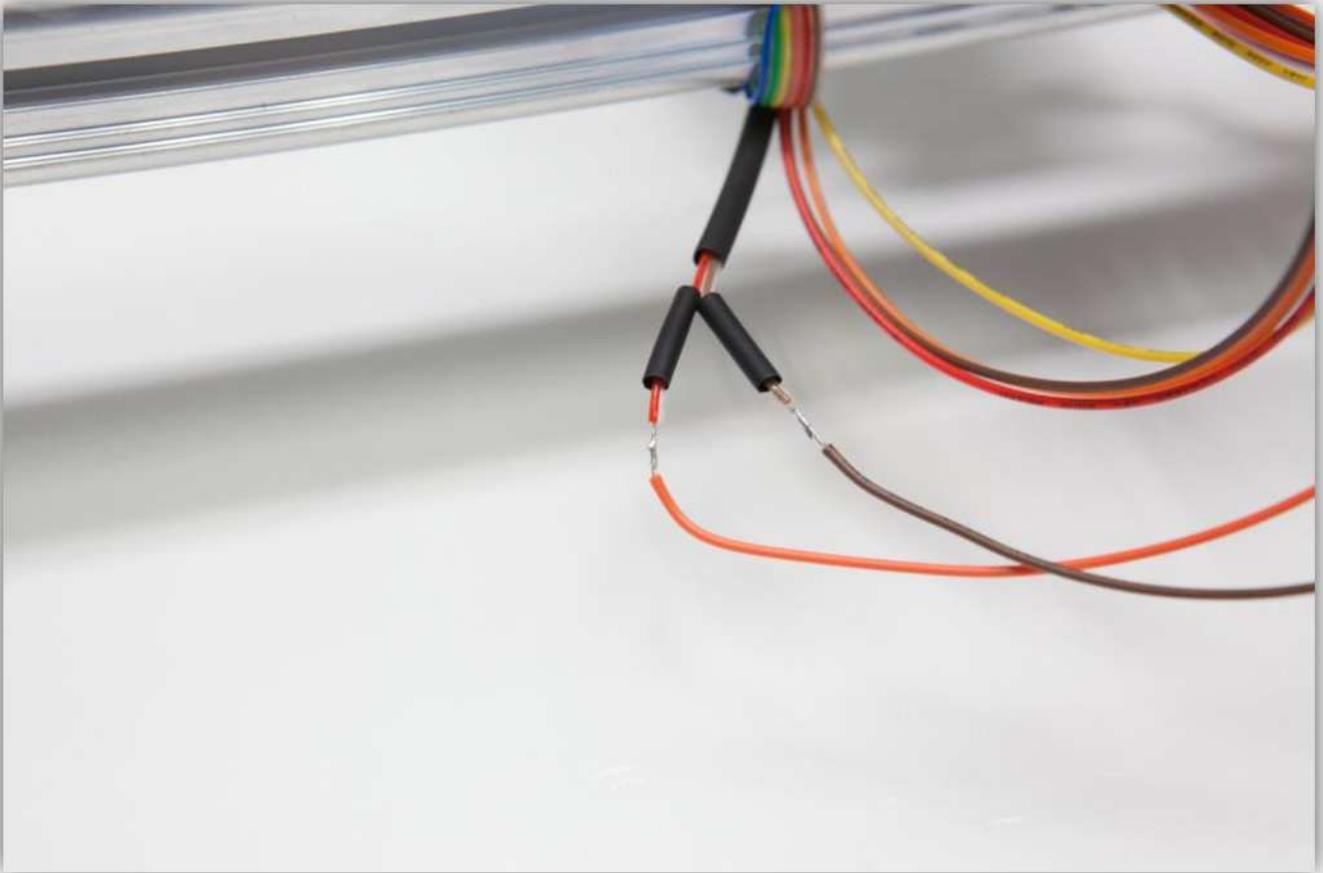


Solder the 2 wires from the **Red** and **Brown** wire to the 2 wires of the flat connector you tinned earlier. **Watch the colours closely.**

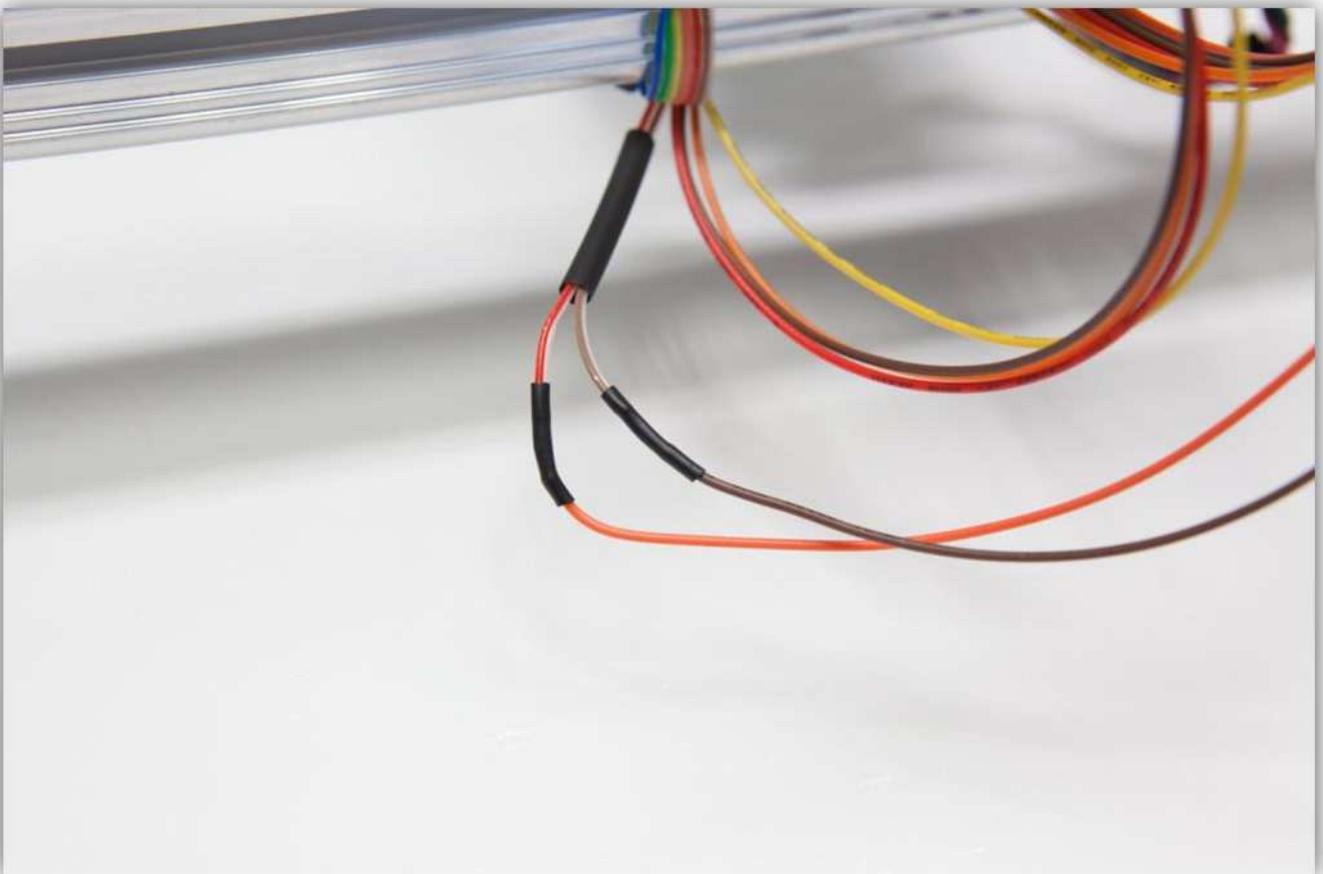
Flat cable -> **Connector wires**

Red -> **Red**

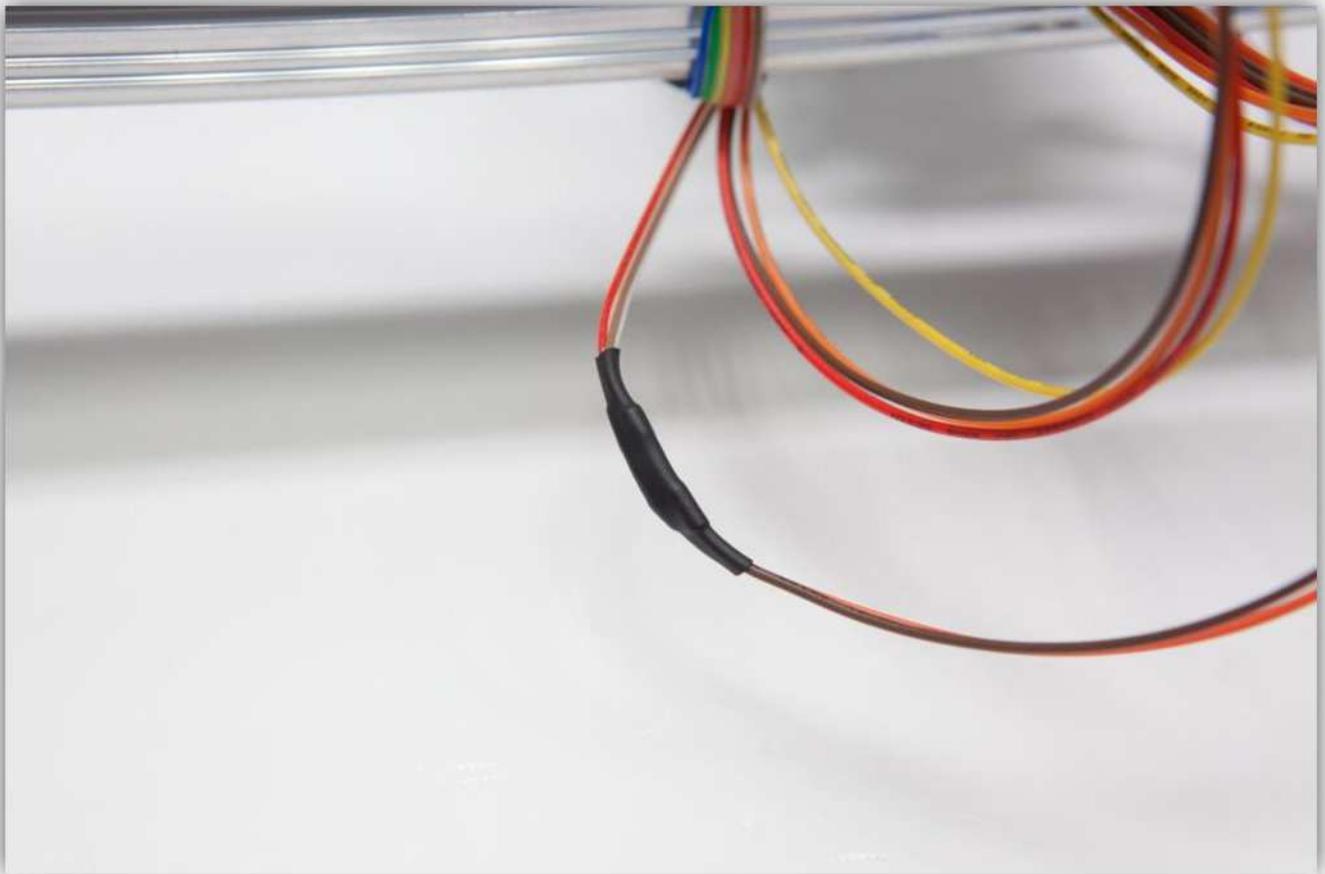
Brown -> **Brown**



Slide the 2 small heat shrink tubes over the solder joints and heat them up.



Now slide the medium size piece of heat shrink tubing over the 2 small pieces, heat the medium size piece so it covers and protects the 2 heat shrunk joints.



Use a few small tie-strips to hold the wires together.

