



Installing/Replacing Molex® Connectors

For doors/frames with electrified hardware

IMPORTANT: Read all instructions before beginning installation.

Special-Lite provides these instructions to help prevent installation problems caused by most common errors. They are not intended to be a foolproof and suitable for every situation. There are many variations of installations not covered in these instructions that Special-Lite assumes are general construction knowledge to an experienced installer. Selection of an experienced installer is the sole responsibility of the project owner or responsible party.

Failure to follow good practice in installation will void the warranty on Special-Lite products.

If you have any questions about installation techniques for your particular project, please call 1-800-821-6531 and ask for a Special-Lite Customer Service Representative.

You can find these and other Installation Instructions on Special-Lite's website at special-lite.com/installation-instructions



Molex Extraction Tool



The Molex Extraction tool is necessary for this installation process.

This is used to remove the pin and socket crimp connectors from the plastic Molex connector.

The extraction tool used is part number 11030044, it is available on Amazon and numerous other sources. It can be found by searching Molex 11030044. It will also say mini-fit extraction tool.

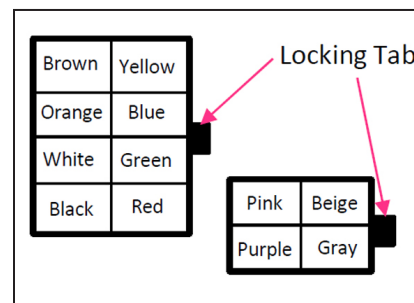


It is possible to run up to 12 wires through Special-Lite conduit with the Molex pin & socket crimps installed.

If the Molex plastic connector has already been installed on both ends of the wire, one end will need to be removed before running the wires through the conduit. The plastic Molex connector will not fit through the conduit.



If the Molex plastic connector was shipped loose, you can skip the next steps for molex removal.



To remove the pin & socket crimps from the Molex connector, you will first need to document where the wires belong. It is important to create a sketch similar to the one shown so the wires can be placed in the correct location when the pin & socket crimps are reinstalled in the plastic Molex connector.



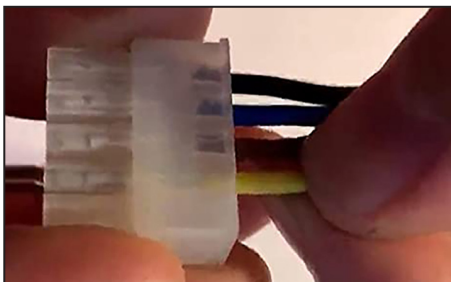
Next, take the Molex 11030044 extraction tool and place it in the plastic Molex connector as shown. *The extractor sizing is very specific to the model number provided.* The proper fit will avoid damage and improper replacement/installation.



Hold the Molex connector so the rows are horizontal and insert the tool from the contact side. Ensure the prongs are between the pin and plastic connector body on both sides.



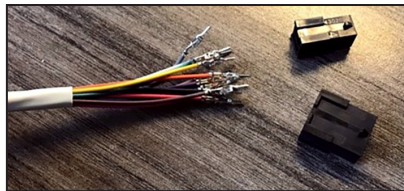
Next, push the tool as far as it will go into the connector. To assist with resistance, push back on the wire, not the connector body.



Once the tool is inserted pull the wire slightly toward the top and bottom of the connector. In some cases it will be necessary to remove the tool and start over, but there is no need to use any great amount of force. Doing so may break the tool or jam the pins in the connector.



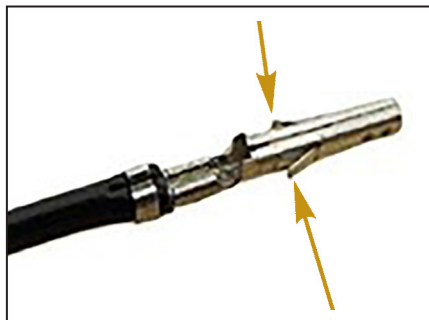
Remove the pin smoothly.



Complete the previous step for all of the pin & socket connectors.

Once all of the pin & socket connectors have been removed from the plastic Molex connector you can complete your wire run.

Once the wire run is complete, the plastic Molex connector will need the wires reinstalled in the same order as they were before removing them.

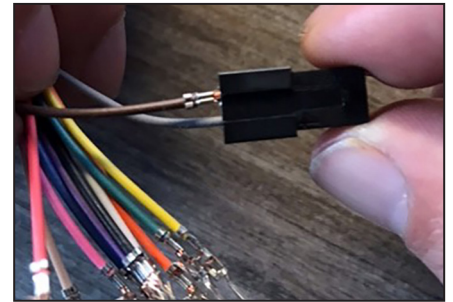


These two locking wings will lock the wire and connector back in place. Check these for damage. If they are bent in they may need to be corrected. If they are broken off, a new crimp will need to be installed.



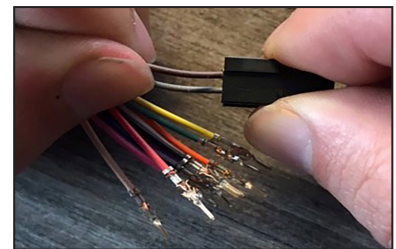
When reinstalling the pin connectors, the pin connector needs to be oriented in the correct direction. The portion of the pin

connector circled, needs to be in the same direction of the locking tab on the plastic Molex connector. The pin connector will only look like this on one side.



Once you have the alignment correct, you can gently push on the wire. When it locks in to the plastic Molex connector, you should hear and/or feel it click in.

Crimp on the connector and locking block on the plastic Molex connector in the same direction.



Once it is in all the way you won't be able to see the crimped on pin connector. Gently pull on the wire to ensure that the pin connector is locked in place inside the plastic Molex connector.