

We are excited that you'll be joining us for SkillsXhibition this year! Below are a few important pieces of information that you will want to read to ensure you are ready for your activity! All pre-recorded demonstration videos will be posted online by May 26<sup>th</sup>.

### REQUIRED MATERIALS & SUPPLIES

#### Skills Canada Alberta Supplied Materials:

##### Materials:

- 2m Cord (Cabtire #14/3)
- Female Lighted End
- Male Lighted End

##### Tools (Per 4 students):

- Utility Knife
- #1 Robertson Screwdriver
- Wire Strippers
- Plug Tester (1 per classroom)



### BEFOREHAND REQUIRED PREPARATION

- Prepare Tools and Materials to be split up and given to students.
- Be prepared to break students into groups of 4 to share tools.

### SAFETY PRECAUTIONS

- Facemasks as required by school when working in groups
- Utility Knife, cut away from yourself, fold blade away when not in use
- Electricity, have teacher inspect before closing up cord end. Test with plug tester before using.

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**ACTIVITY DIRECTIONS (supplementary to the demonstration video – the directions will be careful reviewed during the video demonstration.)**

Use the box diagram to determine the length of outer cable to remove



Carefully remove the outer jacket with the utility knife. Bending the cable will help to ensure that conductors are not damaged in this process



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Last revised May 4, 2021

Trim up cardboard if applicable,  
you might need to also trim  
some fiber hairs with a utility  
knife here



Using the guide on the box strip  
the wire with the #14-gauge  
hole in the stripper



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Spin the wires together in the clockwise direction to make it easier to terminate the conductor in the next step. Be careful not to poke your finger with the little wires!



Open up both cord ends



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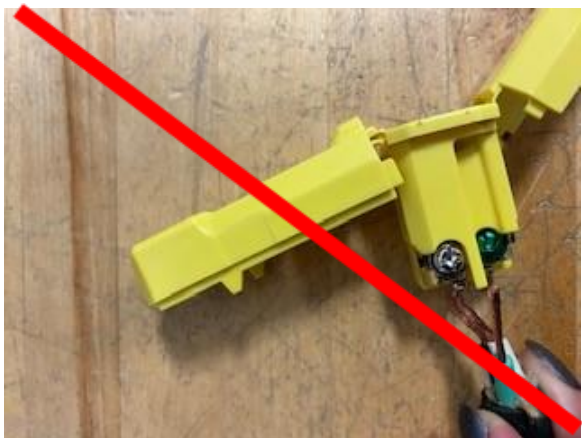
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Open up termination screws  
inside cord ends



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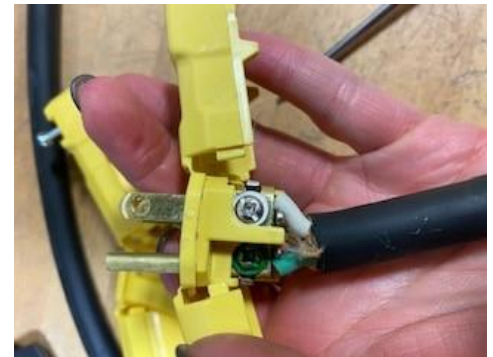
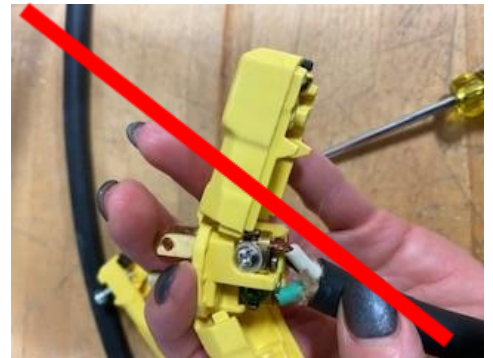
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Line up stripped wires to the color coordinated termination point, Green to green, white to silver and black to brass. NOTE: that there is a correct end of the cable and an incorrect end. If you have to cross wires to reach the termination screw flip the cable over and use the other end.



Terminate wires under screws. Be sure to get all strands in and be sure no copper is showing. Have your teacher do a visual inspection before closing it up



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Remove one or two grommets as needed to properly secure cable in cord end.



Tighten up cover screws.



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Test cord end by plugging in the plug tester then plugging into an energized outlet. The lights on the tester will identify if any wires are incorrect.



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