

Best Practice for Installing Low Voltage Perimeter Security Lighting to a Fence

Running Wire & Making Splice Connections.

ATTACHING WIRE TO TOP FENCE RAIL

Model# CPSSTIE11 11" Stainless Steel Ball Lock UV Resistant Cable Tie. .310" Wide x 11" Long x .010" Thick



Model # CHS14100 ¼" Heat Shrink. Sold in 2 foot sections 100 feet / bag
Cut 2" Inch Sections of ¼" Heat Shrink Sleeve



Place ¼" Heat Shrink Over Stainless Cable Ties As Shown



CAST PERIMETER[®]
LED SECURITY LIGHTING SOLUTIONS
1120-A Goffle Road Hawthorne, NJ 07506 cast-lighting.com 973.423.2303

Step #1. Place wire at 7:00 O Clock Orientation on Top Pipe Rail

Step #2. Attach Cable Tie with ¼" Sleeve Resting Over the Wire

Step #3. Pull Cable Tie Tight

Step #4. Install cable Ties every 24" and at exit and entry of wire feeding each fixture



Close View of Sleeve Placed Over Wire



Step # 5. Cut Excess Cable Tie Material

NOTE: Make sure wires are nice and snug against pipe.

You can use Standard Plastic UV Cable ties to help stage wire when installing Stainless Cable Ties. No Need to remove UV Ties after installation



Finished Cable Tie Connection



MAKING WIRE SPLICE CONNECTION AT FIXTURES

Tool Required Cast Model # C1098 Wire Separation Tool (Tile Snip)

STEP # 1. Place TOP and BOTTOM Cutting edge of blade on the center webbing of the SPT wire. BLADE MUST BE dead center between both conductors. MAKE SURE you are not off center, and you WILL NOT cut the outer insulation of either wires. When tool is centered gently squeeze tool and separate conductors.

STEP # 2. Do step one two more time along the wire



Correct Tool Placement



Correct Separation



DISASTER



STEP # 3. Below is a photo of the second separation action. Use your fingers to gently separate the two conductors.

Successfully Separated wire



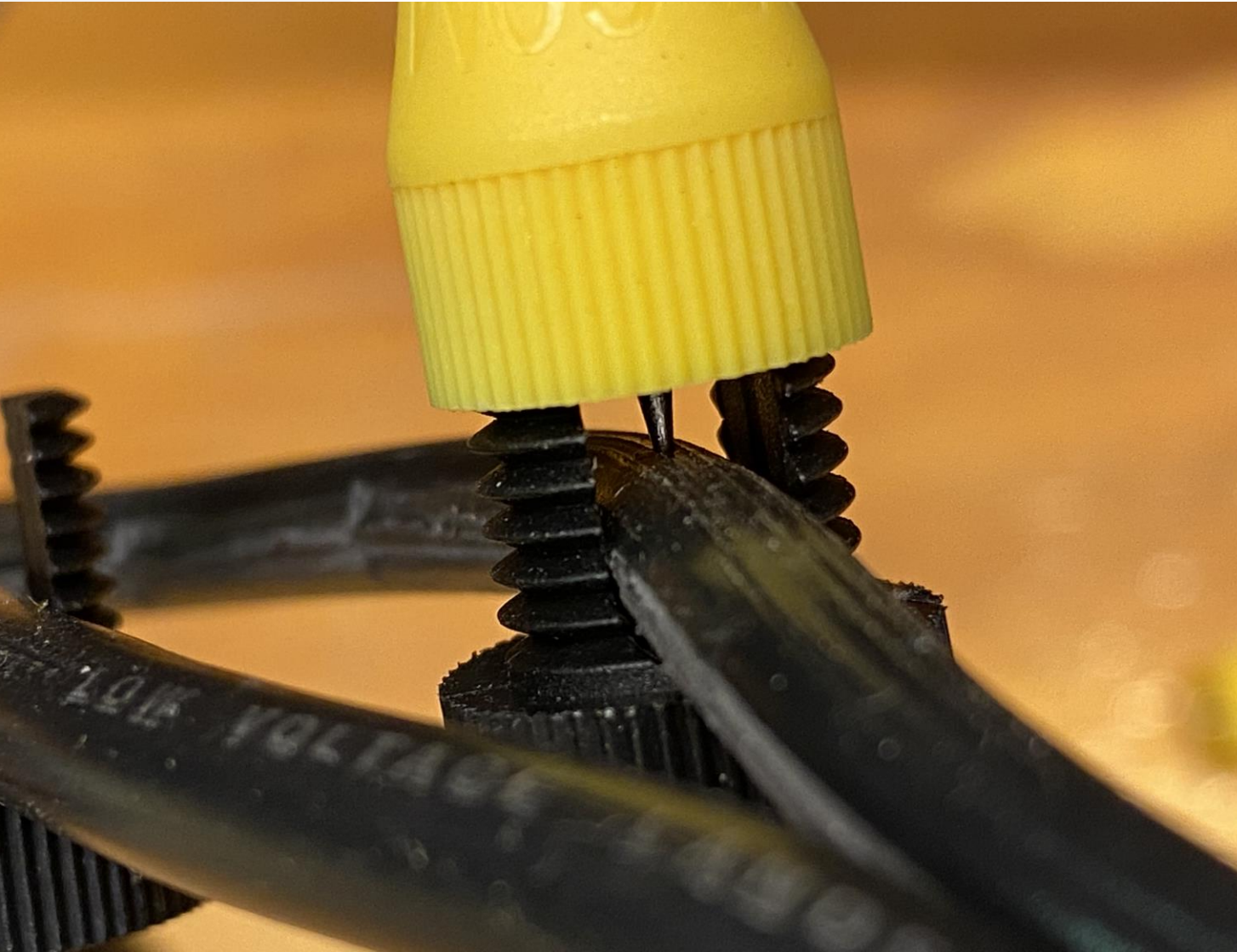
STEP #4. Place Appropriate Gland on back of each wire (Black Gland #12 & #10 Wire, Yellow Gland #14 Wire)

STEP #5. Remove Yellow Gland and discard.

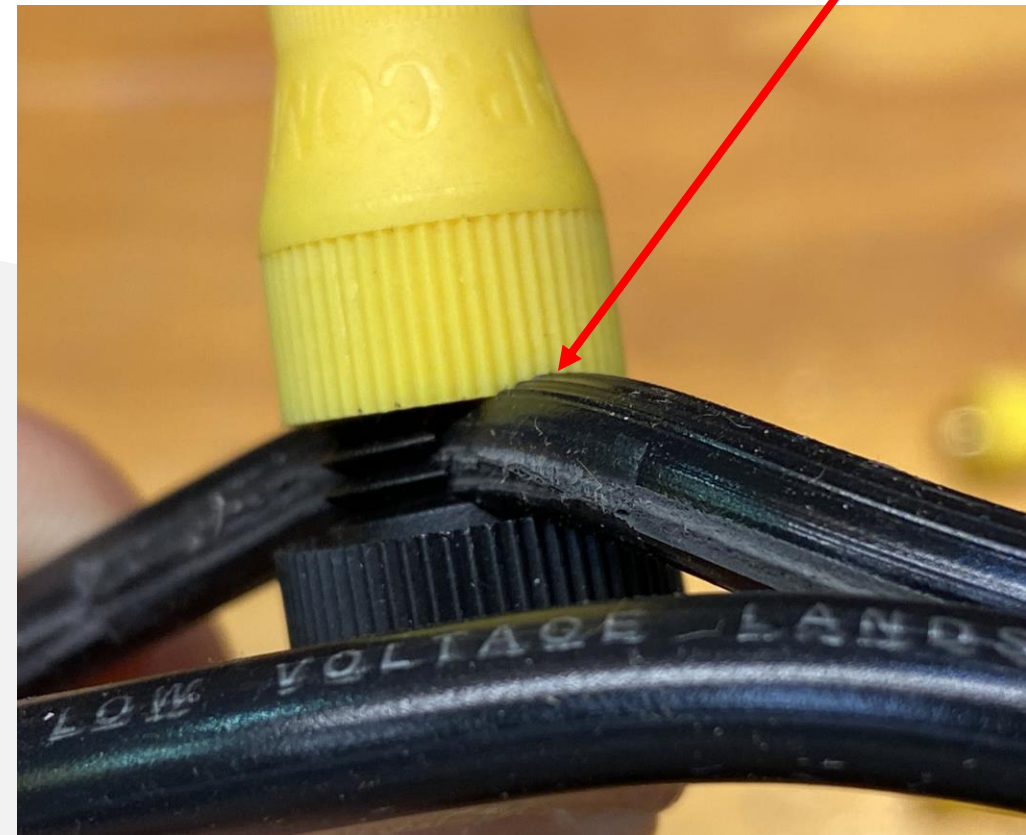


STEP # 6. Screw Quick Connect on gland being careful not to cross thread. Notice how "Needle" is dead center on wire.

Make Sure Connection is HAND tight

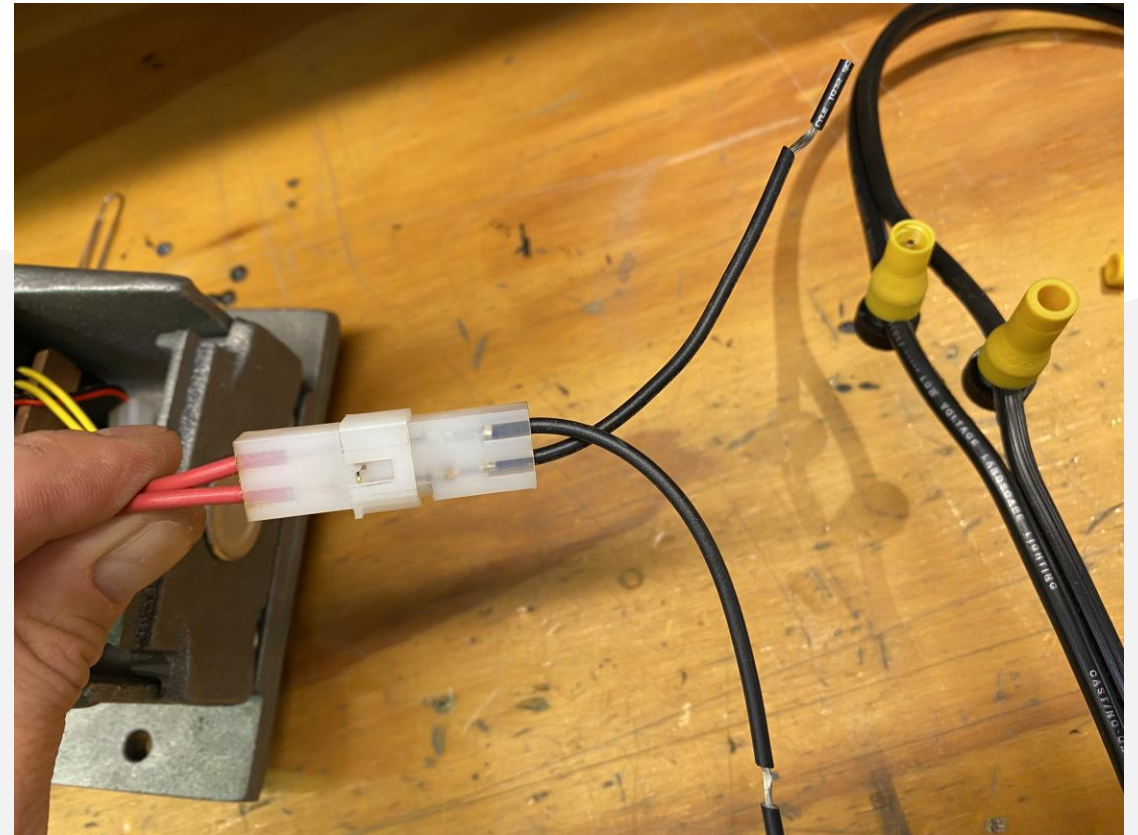


Tight Connection To Wire. Notice how top yellow portion slightly bites into insulation of wire.



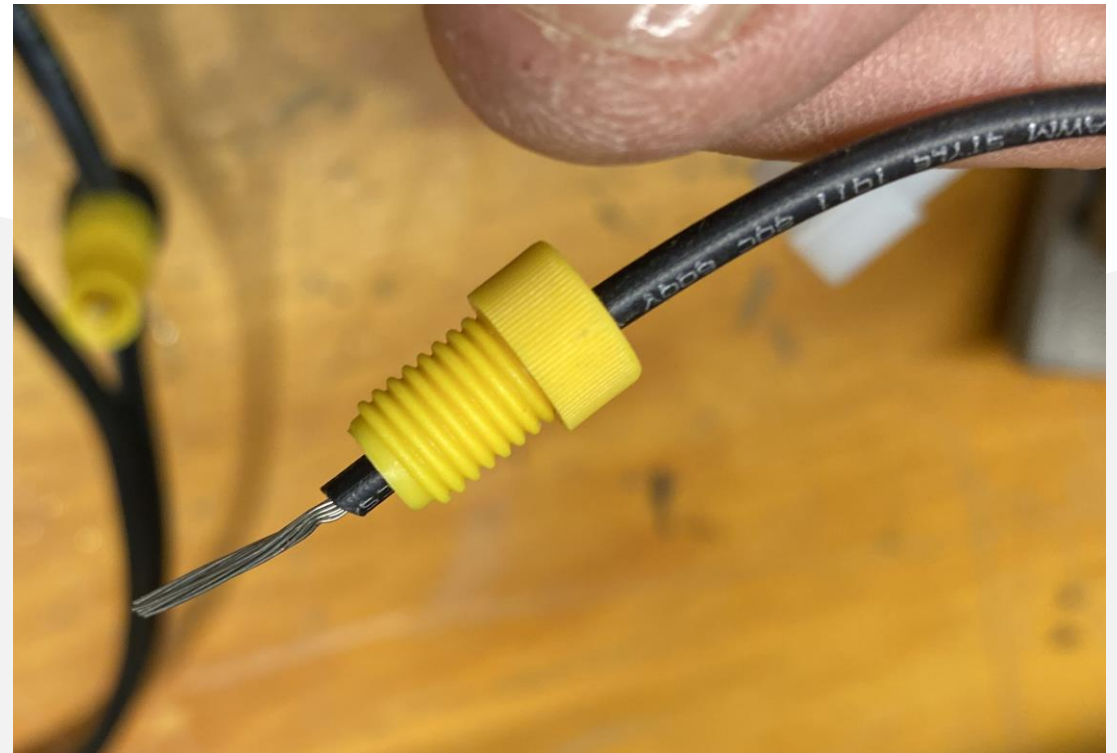
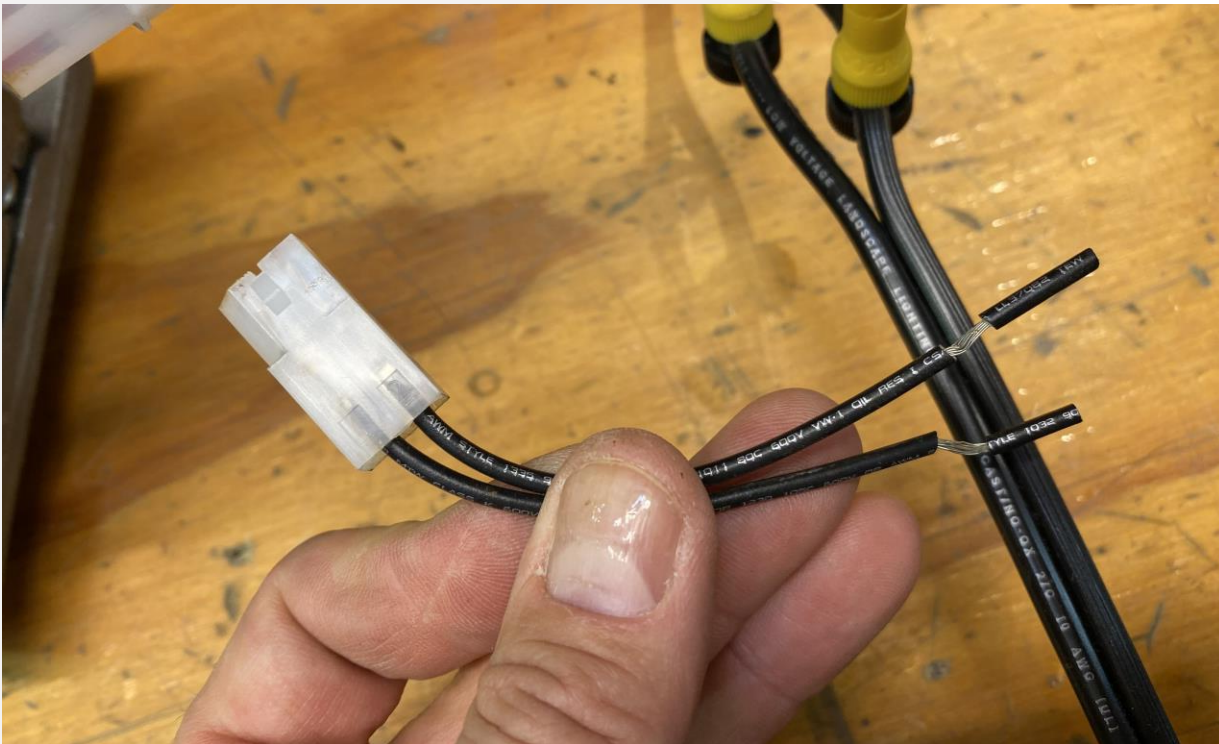
STEP # 7. make two connections roughly 1-1/2" to 2" apart from one another

Locate Quick Connect in wiring compartment of fixture



Step #8. Separate Quick Connect Power Feed Wire from Fixture

STEP # 9. Unscrew and place top cable gland over power wire as shown. Inspect wire to make sure no strands of conductor are missing. If so re-strip wire making sure not to cut any wire strands



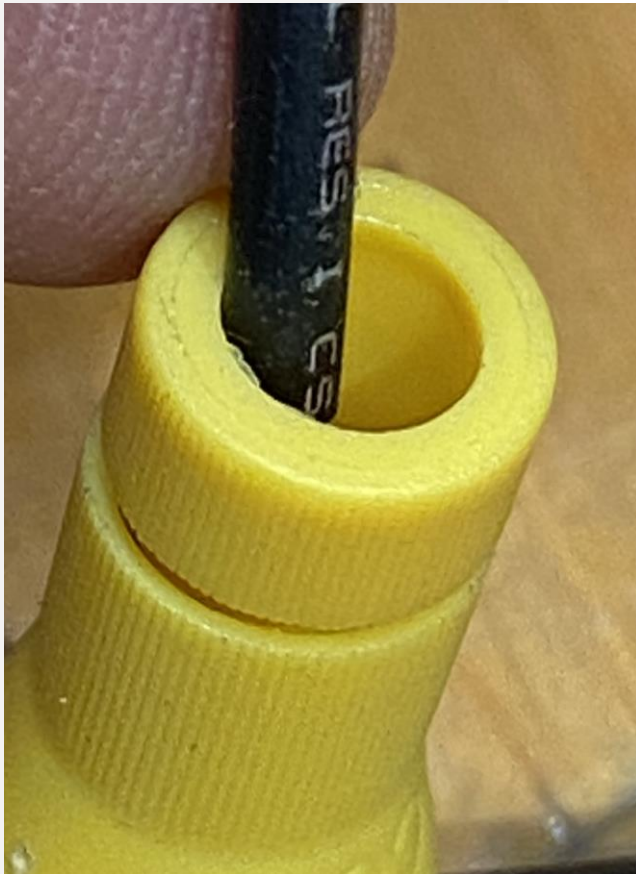
STEP # 10. KEEP WIRE FLAT **do not twist wire**. Place wire between inner wall of top connection point and the outside of the metal mandril making sure the wire is all the way to the bottom of the upper wiring connection floor.



STEP # 11. Screw top gland into connector hand tight.



Hand Tight Connection



STEP #12. Using top jaws of wire stripping tool tighten top gland ¼ turn so it is nice and snug.



Finished Connection



PERIMETER[®]

LED SECURITY LIGHTING SOLUTIONS

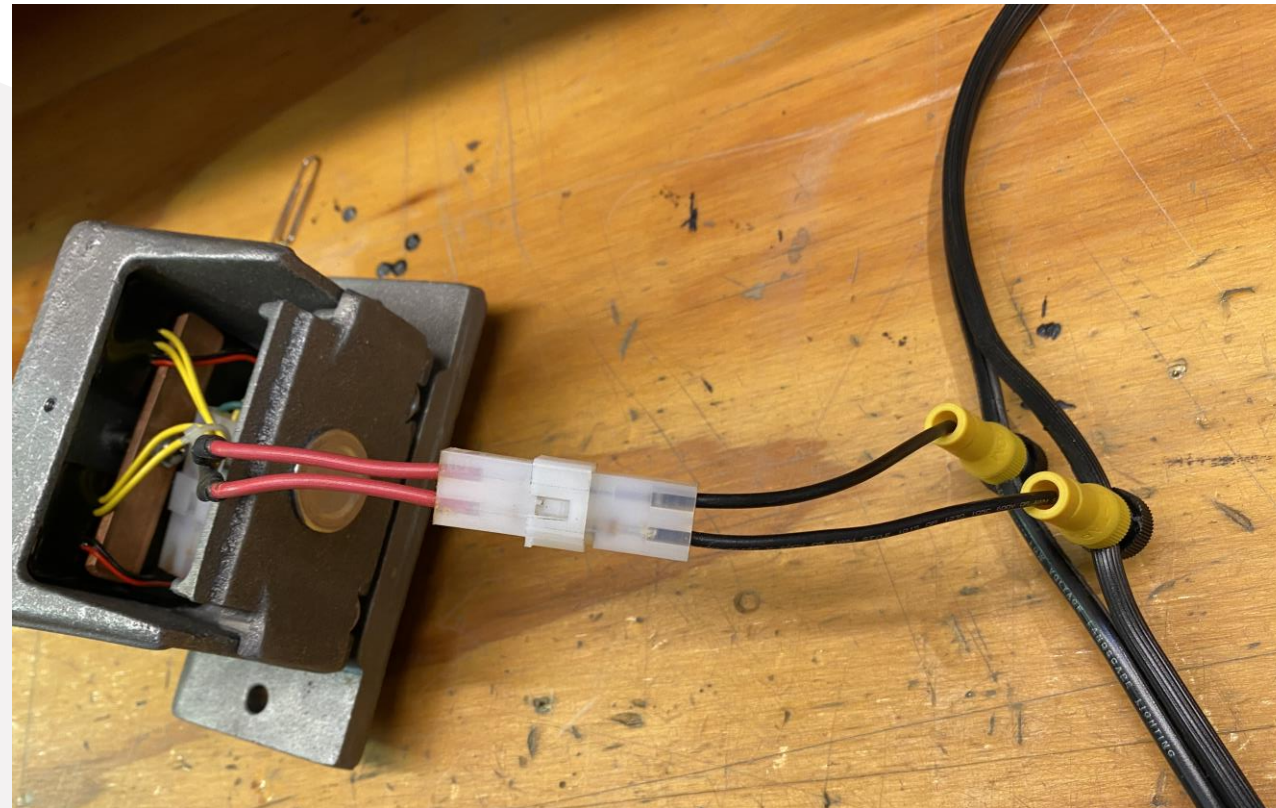
1120-A Goffle Road Hawthorne, NJ 07506

cast-lighting.com

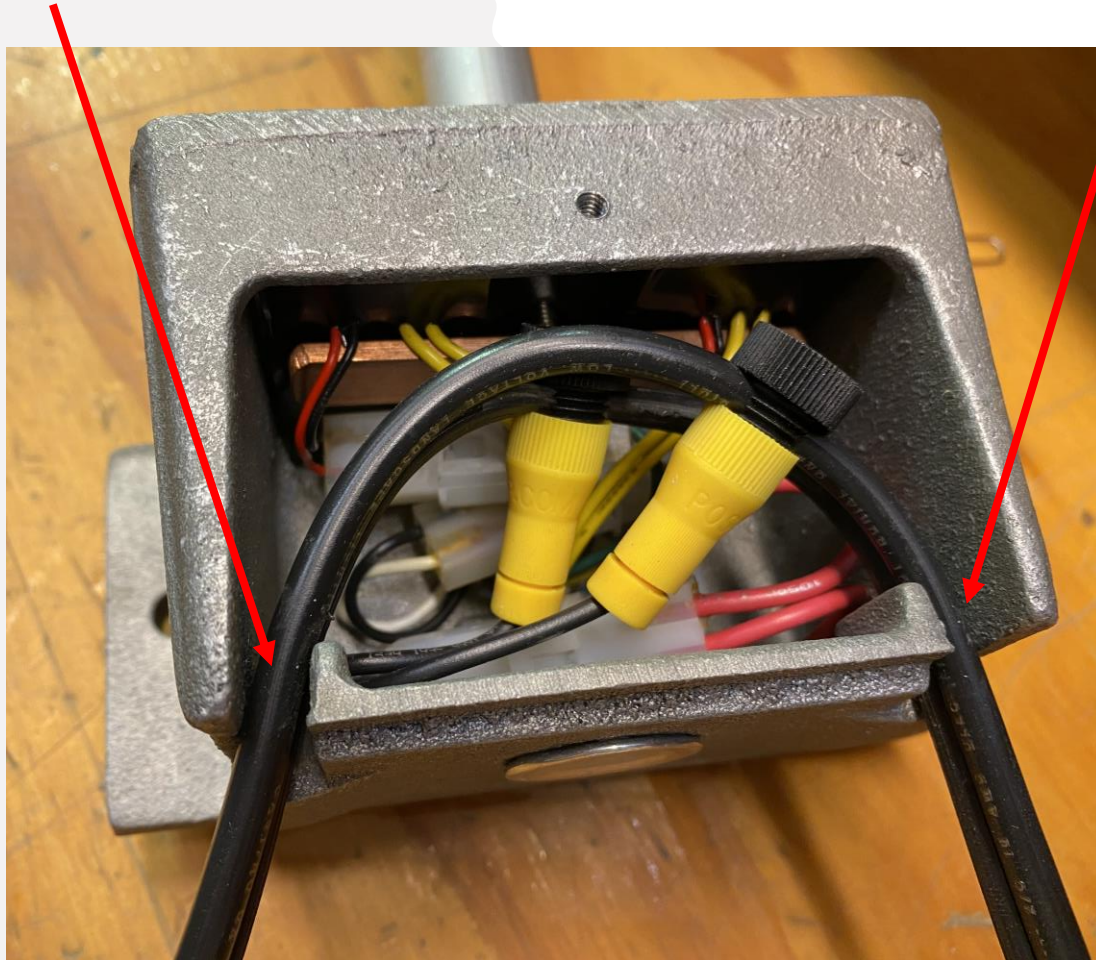
973.423.2303



STEP # 13. Attach power wire to fixture quick connect.



STEP # 14. Place power wire in the strain relief slots at base of fixture junction box Right and left side and fold connection into junction box.



STEP # 15. Put cover plate back on fixture and secure with 8-32 thumb screw.

END





PERIMETER[®]

LED SECURITY LIGHTING SOLUTIONS

1120-A Goffle Road Hawthorne, NJ 07506

cast-lighting.com

973.423.2303