**IRT Assembly**

Tools:

* Chop saw (for cutting PVC and metal pole)
* Wire strippers
* Connector tool
* Crimp tool for battery connector

Materials:

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| Gray Conduit PVC (1.25" dia) |
| 3/4" PVC |
| Metal pole |
| 2c22 cable |
| Polarized female connectors |
| Battery connectors |

1. Cut 1.25” dia. gray PVC to 7’ lengths (and cut off flange)
2. Cut ¾” PVC to 8’ lengths
3. Cut metal pole to ~5’ lengths
4. Assemble power cables:
   1. From charge controller to each IRT setup (Qty 14)

(one end stripped, one end with polarized female connector)

* 1. From solar panel to charge controller (Qty 8)

(both ends stripped)

* 1. From battery to charge controller (Qty 8)

(one end stripped, one end with battery connectors)