# Lunar Energy Applications Note

## Ethernet Communication Cable

This Applications Note outlines the recommended communication cable for the Lunar System:

- **Cat6 or Cat5e**
- **24 AWG or 23 AWG**
- **Solid Copper only**
  - NOTE: copper plated aluminum wires are not viable on longer wire installations
- **Shielded or unshielded**
  - Note: where shielded cable is installed, land the drain wire on either side but not both sides.

This ethernet cable is validated up to 95' (29 meters) for use between any Lunar devices, including from the Lunar Inverter to the Lunar Bridge or MSA-Controller. Other communication wires detailed in the Installation Manual continue to be allowed.

Lunar recommends this communication cable to improve device communication and commissioning and because future Lunar hardware products will require ethernet cables.

While any color coding system can functionally works, Lunar recommends this color scheme:

| Signal Gnd | CAN Low | CAN Hi | 13 V |
|---|---|---|---|
| Brown | White / Orange-Stripes | Orange | White / Brown-Stripes |