Using a high speed drilling process eliminates high points within the inner diameter of the contact tip. This will create a smoother inner diameter for your wire to pass through, thus preventing microarcing or burnback you may experience with a drawn contact tip.

You can expect your contact tip to last two to three times longer as a result of using one made with the drilled process as opposed to the drawn process.

**BUILD**

Contact tips will vary per manufacturer, but there are some commonalities that you will see in most contact tips available.

- **Tapered front end** allows tool access for clearing spatter.
- **Shallow bore entry** to ensure that wire feeds properly.
- **Chamfered base** to allow proper surface contact with tip holder.

**MATERIALS**

- **Copper**
  - Hardness: 110 HV
  - Temperature Threshold: 400°F
  - Electrical Conductivity: 100% IACS

- **Copper Zirconium**
  - Hardness: 160 HV
  - Temperature Threshold: 900°F
  - Electrical Conductivity: 95% IACS

- **Silver-Plated**
  - Hardness: 160 HV
  - Temperature Threshold: 900°F
  - Electrical Conductivity: 105% IACS

- **HDS Silver**
  - Hardness: 160 HV
  - Temperature Threshold: 1400°F
  - Electrical Conductivity: 105% IACS