



Contact Tips

Performance, Quality and Reliability

For years deoxidized phosphorus copper has been the material of choice for contact tips due to its low cost and availability. Most Original Equipment Manufacturers (OEMs) have settled on this material for the manufacture of their tips. Luvata has developed a line of dispersion strengthened copper tips for more demanding applications requiring high wear characteristics and resistance to softening.

Choice of alloys tailored to your application:

- **Dispersion Strengthened Copper (DSC)**
- Copper Chrome Zirconium (CuCrZr)
- Silver Bearing Copper (CuAg)
- Deoxidized Phosphorus Copper (DHP)



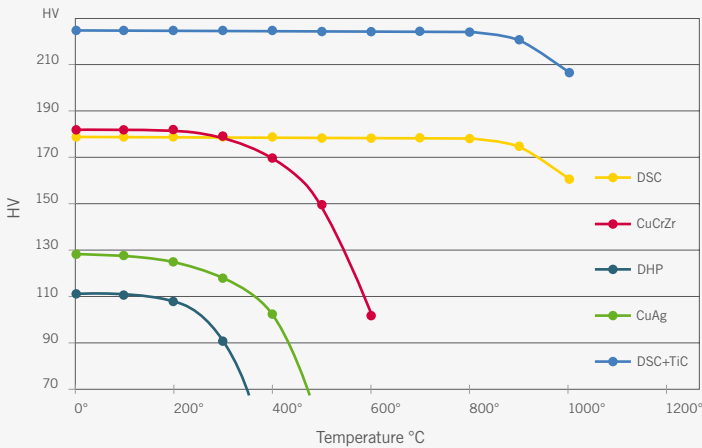
About Luvata

Luvata is a world leader in metal fabrication, component manufacturing and related engineering and design services. We are committed to partnering with our customers to help them increase their competitiveness. Our products and services enable our customers to improve operational efficiency, improve products and reduce tied-up capital. Because we focus on our customers' results and are unfailingly reliable, we are the partner on which our customers base their future development.

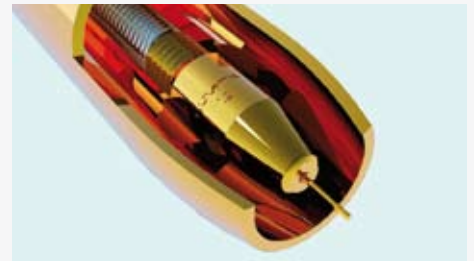
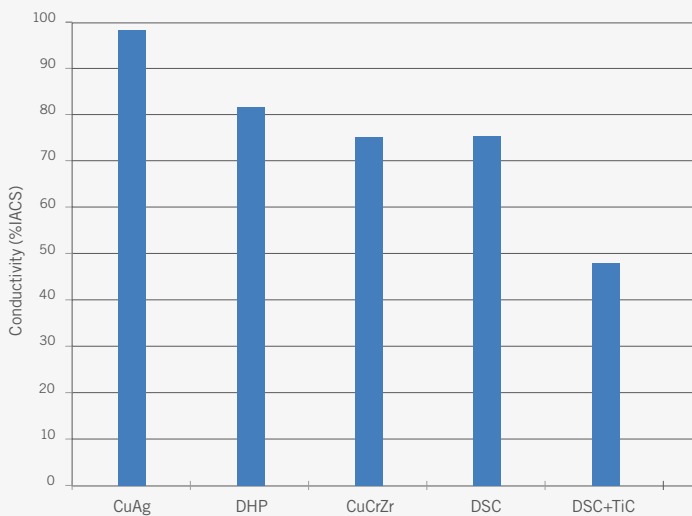
Comparison of alloys

For those who require performance in a contact tip, our dispersion strengthened copper (DSC) tips are unsurpassed in quality and reliability. In controlled applications our DSC tips have provided up to 5X the life of a standard DHP contact tip. The DSC tip maintains its hardness at elevated temperatures and has excellent wear characteristics.

Hardness Loss after 1 Hour



Contact Tip Conductivity Comparison 20°C



Material Options:

- (E) Dispersion Strengthened Copper (DSC)
- (A) Copper Chrome Zirconium (CuCrZr)
- (S) Copper Silver (CuAg)
- (D) Deoxidized High Phosphorus Copper (DHP)
- (T) Dispersion Strengthened Copper w/ Titanium Carbide

Typical part No. for material identification and size

MTXXX.X-XX-XXX

Material
Tip Length (mm)
Wire Size (mm)