



## 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)
- Deoxidized Phosphorus Copper (DHP)



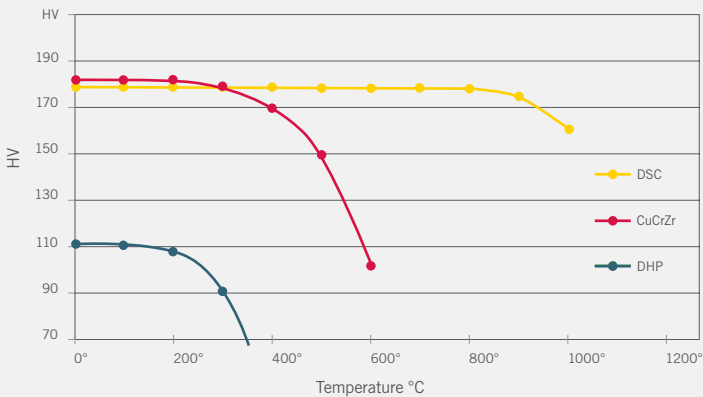
### About Luvata

Luvata is a world leader in metal solutions manufacturing and related engineering services to industries such as renewable energy, automotive, healthcare, and power generation and distribution. The company's continued success is attributed to its longevity, technological excellence and strategy of building partnerships beyond metals. Employing over 1,400 staff in 7 countries, Luvata works in partnership with customers such as ABB, CERN, Siemens and Toyota. Luvata is a group company of Mitsubishi Materials Corporation.

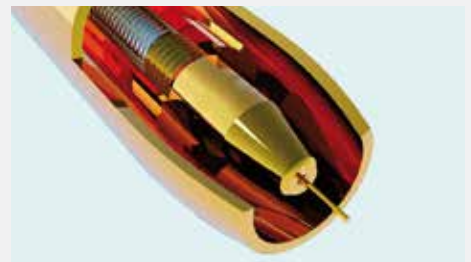
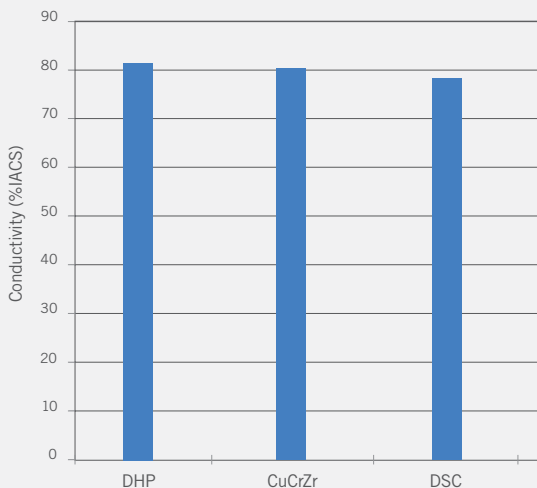
## Comparison of alloys

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)
- (D) Deoxidized High Phosphorus Copper (DHP)

### Typical part No. for material identification and size

**MTXXX.X-XX-XXX**

- Material
- Tip Length (mm)
- Wire Size (mm)

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