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)
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 20ºC

Material Options:
(N) Dispersion Strengthened Copper (DSC)
(A) Copper Chrome Zirconium (CuCrZr)
(D) Deoxidized High Phosphorus Copper (DHP)
(T) Dispersion Strengthened Copper w/ Titanium Carbide

Typical part No. for material identification and size
MTXXXX.XX-XXX
Material
Tip Length (mm)
Wire Size (mm)