AN AMBRELL COMPANY

Annealing brass electrical contact for crimping

Objective To anneal a small area of an electrical contact for crimping

Material Brass female spade electrical contact with single transverse

loop at end 0.5"(12.7mm) long, 0.25" (6.3mm) wide and 0.03"

(0.8mm) thick, 1000°F (538°C)heat paint

Temperature 1000°F (538°C)

Frequency 310 kHz

• Ambrell 10 kW induction heating system, equipped with a remote workhead containing two 1.0μF capacitors for a total of 0.5 μF

• An induction heating coil designed and developed specifically for this application.

Process A one turn hairpin coil is used to heat the electrical contact to

1000°F (538°C) in 1.5 seconds. The contacts are in strips at 0.75" (19mm) centers and will run continuously at a rate of 50'

(15.24m) per minute.

Results/Benefits Induction heating provides:

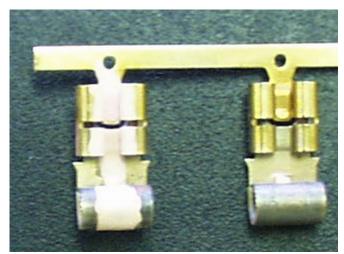
Hands-free heating that involves no operator skill for manufacturing

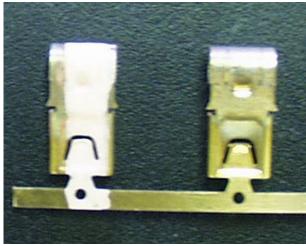
Pinpoint accuracy

Consistent results



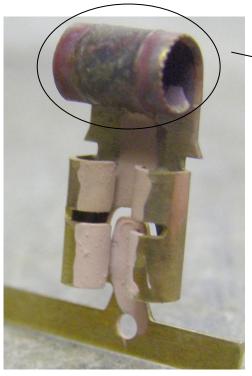
AN AMBRELL COMPANY





Electrical contact with 1000°F (538°C) temperature paint





Area heated

Heating is so precise that only the very end is heated to the desired temperature and melts the 1000°F (538°C) temperature paint