





Heating Automotive Battery Cables for Adhesive Melting

Objective: To heat eight different automotive battery cables to melt adhesive

in order to provide extra sealing around the end of the shrink

cables

Equipment: Ambrell EKOHEAT® 15 kW, 50-150 kHz induction heating system

with a workhead and coil specifically designed for this application

Temperature: 288 °C (550 °F)

Frequency: 112 kHz

Material: Aluminum cable with copper ends

Testing: THE LAB at Ambrell designed and built a U-shaped coil for this

application. Temperature indicating paint was applied to the parts, and it took 10 seconds to heat the various styles of the part to the targeted temperature. This testing achieved the client's time and

quality objectives.

Speed: The client wanted a ten-second heat time, which was

achieved during testing

 Repeatability: Induction delivers the same result time after time, making it ideal for their high-volume manufacturing

process

• **Footprint**: The space-efficient EKOHEAT worked perfectly in

their manufacturing process





One of the cable samples after heating.