

## Application example

# High-flex 50 mm² cable on a contact

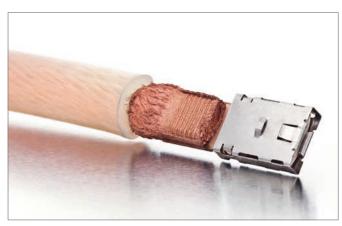
PLASTIC WELDING

METAL WELDING

CUTTING

CLEANING

SCREENING





The application was welded with a 6.5 kW MPX HD PowerWheel® system and a TCS5 controller with touchscreen operation.

### Task

A very fine high-flex copper cable with a  $50\,\mathrm{mm^2}$  cross-section needs to be welded to a copper contact. The weld width must not exceed 9.6 mm. The welding process must not damage the fine individual wires.

#### Solution

The components are connected using PowerWheel® technology with an MPX HD welding system with a maximum output of 6.5 kW and sound protection casing accessible from three sides.

### Configuration advantages

Because the weld nodes have to be relatively narrow, the fine wires place strict demands on the welding process – the patented PowerWheel® technology makes sure the weld is secure. PowerWheel® technology is able to generate even narrower welding nodes than with longitudinal ultrasonics. Furthermore, this technology has a positive influence on the risk of damaging the fine wires.