

## Application example Blend of aluminum and copper wires

PLASTIC WELDING

IETAL WELDING

CUTTIN

CLEANING

SIEVING





Depending on the total cross section area, this application and similar cases are performed using a Telso®Splice TS3 or TS6 wire splicing system.

## Task

A varying number of copper and aluminum wires have to be connected to one another in an electrical system. A suitable connection technique has to be used for this mixture of materials. The application in this example consists of  $3 \times 10 \text{ mm}^2$  aluminum wires and  $1 \times 6 \text{ mm}^2$  copper wire. The total cross section area amounts to  $36 \text{ mm}^2$ . The connection must have as low an electrical contact resistance as possible.

## Solution

Ultrasonic welding technology is used as an economic way to generate firmly bonded welds. Depending on the total cross section of the connection node, a Telso®Splice TS3 or TS6 wire splicing system is used. Thanks to the wire configurator, you have an easy way to define any variant of wire node.

## Advantages of this configuration

Ultrasonic technology enables different types of metal to be welded together, guaranteeing minimum electrical contact resistance in the connection. After configuring a new node or selecting an existing one, the welding system automatically adapts to the type of node in question (both in mechanical terms and in relation to process parameters).

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