

Application example

Aluminium cables with multiple wires on a Cu eyelet terminal

PLASTIC WELDING	METAL WELDING	CUTTING	CLEANING	SCREENING
		Task The terminal is used to attach a vehicle's earthing connections to certain points on the running gear. Side terminations are used for bringing the vehicle's individual earthing connections together and welding them. The terminal's cord grip then has to be crimped at a very particular height. In the past, aluminium used to cause prob- lems by sticking to the tools though this issue has now been solved Solution This application was solved using an MPX (3.6 kW, 20 kHz) universal welding system with a special device for ensuring repeatability in the process. The welding system logs the location of the terminal with a high degree of precision in order to make sure the cable is fed into exactly the right place. Using an exclusive, fixed oscillator helps to create a smooth weld – a key factor when welding different mate- rials. Configuration advantages The MPX universal welding system allows you to monitor quality using a built-in load cell that collects data. Thanks to the rigidity of the fixed oscillator (which eliminates almost all bending during the		
		welding process) and the cillations, the aluminium r system balances out any o adjustable crimping tool o nesses of insulation. The l eyelet terminals and cable same system.	controlled applicatio no longer sticks to th differences in perfora can be adapted to va holder is designed so e configurations can l	n of the ultrasonic os e tools. The holding ted terminals and the rious types and thick- that a wide array of be welded onto the

The application was produced on a linear 3.6 kW MPX ultrasonic welding system with suitable special equipment.

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