



## Exothermic Welding Connections

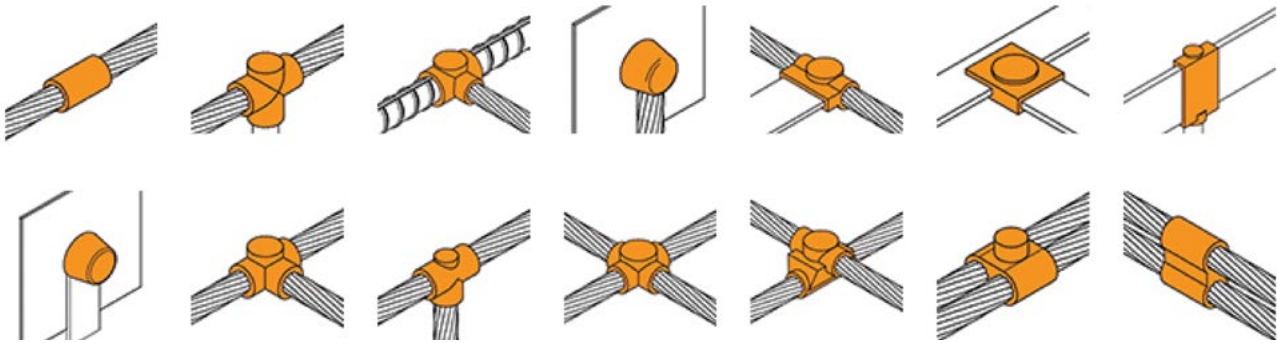
Exothermic connections are the best bond for copper and steel as they provide an irreversible molecular bond that is far superior to any other type of connection.

Although the temperatures reached to achieve this weld are extremely high, the process is instant when compared to brazing, soldering and all types of mechanical connections.

### Exothermic connections provide:

- Permanent connection, unaltered throughout the facility's lifetime
- A cross-sectional area that in most cases is twice that of the conductors
- A connection without contact pressures that tend to loosen and corrode over time
- High electrical current, equal to or higher than the conductors. On short-circuit tests, the conductors melt before the exothermic connection
- Capability to withstand repeated high electrical currents without any wear or erosion
- Quick and easy visual inspection

Illustrated below are various types of connections used in earthing systems above and below ground. Contact PLP for more information.



PLP supplies the Apliweld® Secure+ exothermic system that uses a unique tablet format compound for every weld type, eliminating the traditional multiple powders required for different welds.

This unique tablet format also eliminates all explosive and flammable materials, whilst the robust electronic ignition with remote Bluetooth activation offers the user the safest exothermic welding system on the market.

### Apliweld® Secure+ is the safer, more versatile and reliable exothermic system for:

- Electrical systems earthing
- Busbar connections
- Energy transport and communications
- Industrial equipment earthing

### Apliweld® Secure+ exothermic connections are:

- Self-contained
- Use zero flammable and explosive materials
- Does not require flammable and explosive gas cylinders
- Does not require external power source



## **APLIWELD® Secure+** exothermic welding: The perfect molecular union, now safer and versatile

**Apliweld® Secure+** is the most reliable solution, giving the best results for connections between electric conductors in earthing systems.

**Apliweld® Secure+** improves both electrical & mechanical properties of the conductor itself, maintaining permanent connections during a facility's lifetime.

**Apliweld® Secure+** also improves on features and benefits when compared to other welding systems. Evolution to tablet format - elimination of flammable materials involved - remote ignition control