

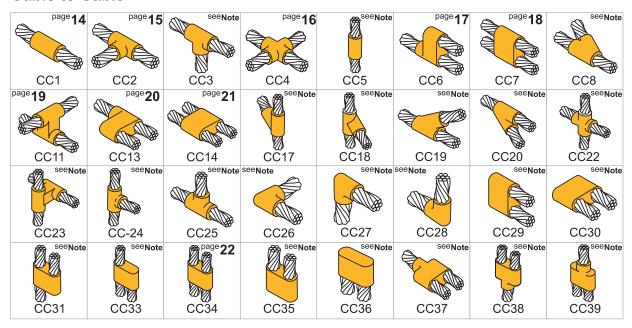


Exothermic Velding

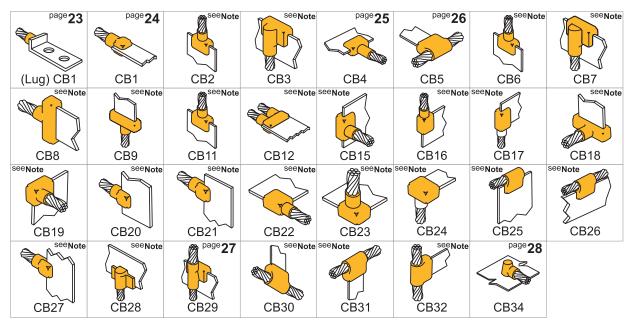
Phân phối bởi/Distributed by: www.chongsetdongnam.com



Cable to Cable



Cable to Bus Bar



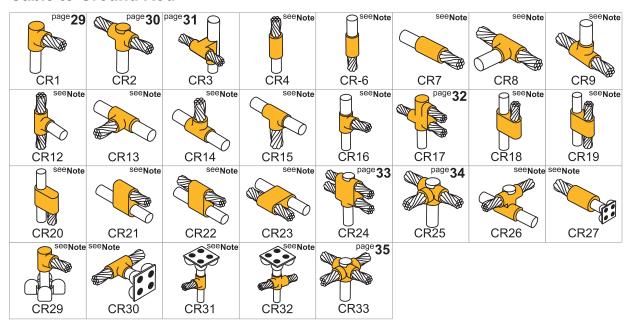
Note: Special requirement can be requested.

Please contact us.

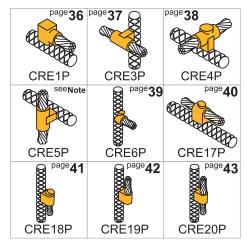
E-mail : info@kumwell.com Tel : (662)-954-3455 Fax : (662)-591-7891



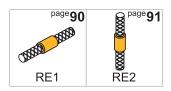
Cable to Ground Rod



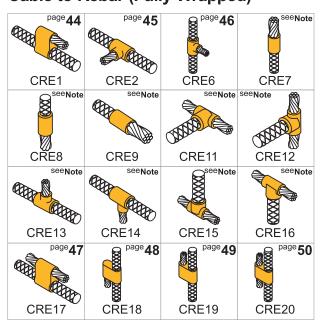
Cable to Rebar (Partially Wrapped)



Rebar to Rebar



Cable to Rebar (Fully Wrapped)



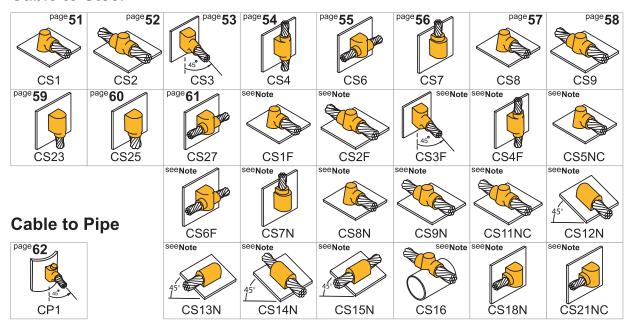
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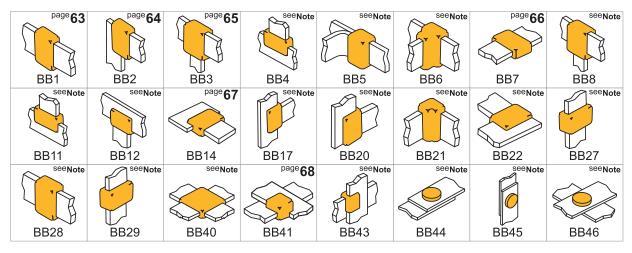
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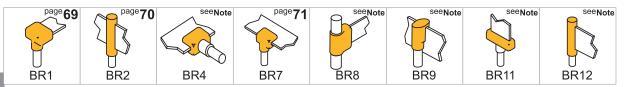
Cable to Steel



Bus Bar to Bus Bar



Bus Bar to Ground Rod



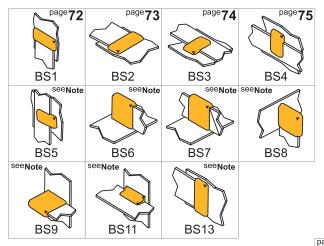
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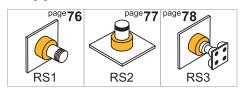
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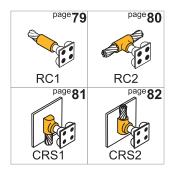
Bus Bar to Steel



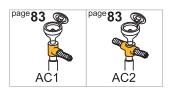
Copper or Steel Stud to Steel

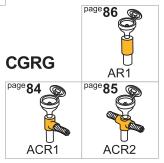


Ground Plates to Cable & Steel

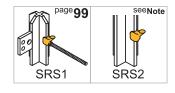


CGR

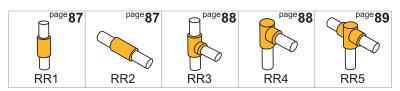




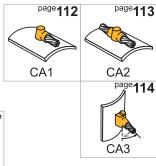
Steel Cable to Steel Rod



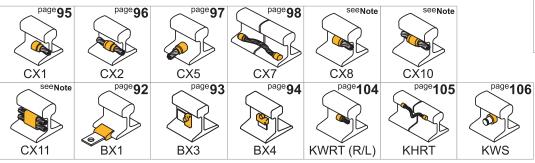
Ground Rod to Ground Rod



Cathodic Protection



Railway Application



Note: Special requirement can be requested.

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Grounding Connection

There are several main objectives providing for well-designed grounding system: first, personal safety, followed by equipment protection, signal reference quality, return path for faults and surges and static dissipation.

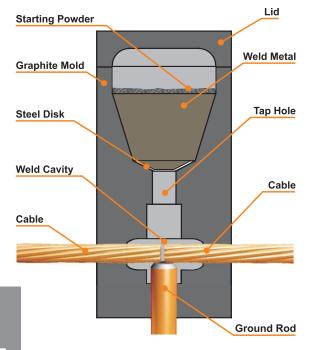


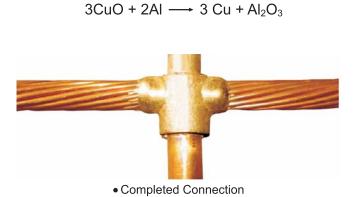
In order to meet these objectives, grounding connections must maintain a low contact resistance often under adverse conditions, for the expected lifetime of the grounding system. Connections in grounding network are subject to severe corrosion, high mechanical stress due to electromagnetic force, and rapid thermal heating due to high current magnitude during fault conditions.

Process

Kumwell Exothermic Welding process is a molecular chemical reaction between copper oxide and aluminum, generates a tremendous superheat with molten metals reaching approximately temperatures of 4,000° F (2,600° C). The process can be completed itself automatically without external source of power or heat.

The process use finely divided aluminum particles as the reducing agent with copper oxide to produce the following chemical reaction







Exothermic Welding

SafetyStarting and weld metal powder

- Non toxic and heavy metal
- Non self-ignite
- Ignition temperature at least 400° C
- Smooth reaction

Mould

- Earnest design: cavity, flow path
- · High quality raw material
- Accurate tolerance
- Duration: at least 50 times in normal usage

Welding Metal

- Non toxic and heavy metal
- Steady burn without pop and fire out
- No slag and porosity
- Consistency of color
- High conductivity with at least 93% Cu

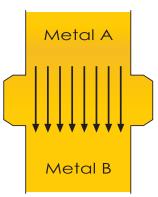


• 95 mm² Copper Cable to 40 mm Rebar

Technical Comparison

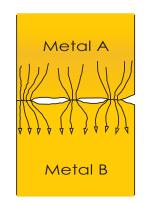
Exothermic welding withstands about 5 times higher than clamp's connection in mechanical force.

Unlike compression and bolt clamp, exothermic welded joint become homogeneous metal.





Exothermic Welding 3000 lbf





Clamp 500 lbf

Maximum result of connector's mechanical force with 70 mm² cable