Copper Cables & Connectors (Pty) Ltd, established in 1990, specialises in design and manufacture or repair of Water-Cooled Furnace Cables, Air-Cooled Furnace Cables, Water-Cooled Resistance Welding Cables, Flexible Connectors, Industrial Battery Connectors, Copper Braid, Earth Stock, Cotton Covered Strand and other Copper related products.

Copper Lugs & Crimping Ferrules are also part of the comprehensive product range offered as a value added service to customers.

The workshop offers top of the range manufacturing equipment as well as the latest in system technology, which allow for the storage of technical information, ensuring that product designs are available for immediate use whenever required.

The experienced professional personnel along with the company’s dedication to integrity, innovation, quality and unparalleled service has developed Copper Cables & Connectors into a leader in the electrical engineering industry.
**Water cooled electric arc furnace cables**

The cables are used to link the transformer output low voltage stationary bus-tubes or bus-bars to the move-able furnace support boom heads.

Newly designed water cooled power cables are built to suit the specific application and according to customer specifications and needs for applications such as:

- AC operated open Arc furnaces,
- Submerged Arc furnaces,
- Six-in-line Arc furnaces,
- DC operated Arc furnaces,
- High frequency and Mains frequency induction furnaces.

The current density for water cooled power cables on AC operated steel melting, Open Arc furnace is 4.5 Amps\textpermm² and for Submerged Arc furnaces in the mineral processing industry can vary up to 9 Amps\textpermm². A maximum current carrying capacity of 35000 Amps and more can be achieved per water cooled power cable depending on the application.

**Laminated copper connectors**

Laminated copper connectors manifest a considerable degree of flexibility resulting from a number of thin copper sheets laminated together.

Copper laminated flexible connectors are designed and built depending on the application.

**Flexible braided and stranded connectors**

Developed specifically for the electrical distribution industry.

Aluminium and copper, braided and stranded flexible connectors are designed and built according to customer specifications.

---

**Mission statement**

In manufacturing top quality products for and providing exceptional service to our customers worldwide, conforming to mutually agreed product specification and listed quality management system, the board of directors, management and staff of Copper Cables and Connectors are committed to our mission to ensure prosperity to our shareholders and other stakeholders through optimum negotiation with our suppliers and through continuous training and development of our staff, providing a safe and healthy environment to grow it.
Lugs and ferrules

Tin plated copper crimping lugs, ferrules, T-connectors, solid centre, weak back and brazing ferrules

A full range of up to 1000mm² tin plated lugs and ferrules can be manufactured in house.

Special lugs with longer barrels, spades with 2 or 4 holes, 45° or 90° angles as well as a full range of heavy-duty lugs can also be manufactured according to customer specifications.

Copper bus-bars

Electrical conductors that carries large currents as part of a power distribution system

With special copper welding techniques such as MIG welding the company has the experience and facilities to design and develop pre-fabrication retaining copper bus-bar systems and round copper bus-tube systems for the furnace industry.

Plain and tinned copper earth sock

Earth Sock (braided sleeving) for use with heat shrinkable jointing systems and pressure joints

Developed and designed for the jointing industry for earth continuity on HT cable joints.
Plain and tinned copper braid

Used as earth braids or continuous current carrying conductors.

Our standard range of flat circular or circular rolled flat are manufactured according to DIN 7233 part 3.

It is available and can be manufactured in the following: plain or tin annealed copper wire ranging from 0.1mm, 0.15mm, 0.21mm, 0.242mm, 0.31mm, or 0.45mm.

Can be used as earth connectors on cable ends and on motor car engines for the automotive industry and are also built into braided flexible connectors.

Round plain or tinned copper strand

The strand is used extensively for large transformer connections, heavy current shunts or furnace droppers.

Round copper strand can be manufactured and supplied from 25mm² to 2048mm² with the following plain or tin annealed copper wire ranging from 0.242mm to 1.38mm.

Can also be used as earth connector, Air cooled furnace droppers, flexible connectors; cotton covered for transformers core connector and mainly used and built into water cooled power cables.

Industrial and car battery connectors and cable

Used in linking stationary battery cells into a battery string of the appropriate voltage and current-carrying capacity.

We supply Euro and India style as well as single end inter cell connectors. The more common sizes of 25mm²; 35mm²; 50mm²; 70mm² and 95mm² are readily available.

We can manufacture inter cell connectors from as small as 6mm² and anything between the more common sizes on request.
Kick and Kickless Welding Cables

Cables with low reactance used to convey secondary current in portable welding installations to the take-off mainly for the automotive industry

The cables are developed and designed according to customer specifications.

Composite Cable (Anti-theft)

Composite (anti-theft) earthing and bonding cable

The cable is available in either plain (bare) or PVC covered in the following sizes:

10mm², 35mm², 50mm², 70mm², 95mm², 120mm², 150mm² and 190mm².

Never compromise on quality!