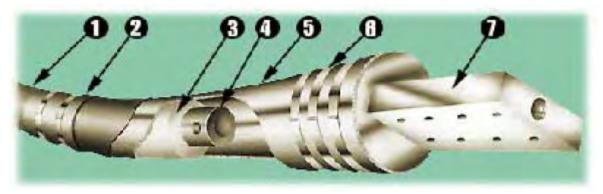


Electric Arc Furnace (EAF) Water Cooled Cables

Technical Specifications

Technical Specifications for Large Water Cooled Cables



1. Heat Shield

- Our water cooled cables feature heavy woven heat resistant material that protects the covering from radiated furnace heat.
- The heat shield may be in the form of a loose fitting sleeve or bonded to the outer hose.
- Watteredge offers a wide range of materials depending upon the application.

2. Anti-chafing Gear

- Double groove bumpers are a standard feature of every Watteredge electric arc furnace (EAF) water cooled cable [unless the customer specification requires different abrasion protection or does not require abrasion protection].
- Bumpers are made from tough abrasion resistant rubber for longer life and are spaced evenly on twelve inches for maximum flexibility and longer wear.

Alternate types of anti-chafing gear can also be furnished, such as continuous sleeve, spiral wrap, loose rings or a combination of spiral wrap and bumpers.

3. Conductor

- This unique Watteredge conductor design and water cooled cable construction gives the maximum current carrying capacity and the lowest AC/DC ratio due to its similarity to hollow tubular conductors.
- Optimal stranding size is the result of Watteredge experience; and is designed to insure long cable life.

4. Core

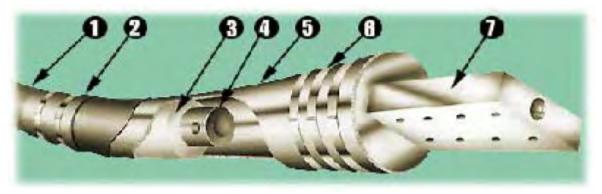
- The resilient long-life core is flexible, yet strong and retains its shape.
- The combined cable and core design insures complete self-flushing water flow and the most efficient distribution of cooling water possible.
- Since the Watteredge core is a rubber and nylon material, there is no friction wear between it and the cable stranding.



Electric Arc Furnace (EAF) Water Cooled Cables

Technical Specifications (continued)

Technical Specifications for Large Water Cooled Cables



5. Covering

- The water cooled cable covering is made exclusively for Watteredge to our exact specifications to insure long life, maximum flexibility, ozone resistance, heat resistance and abrasion resistance.
- Watteredge coverings provide the most complete di-electric and physical strength and are designed to withstand continuous water pressure up to 90 PSI.

6. Bands and Water Testing

- High tensile strength stainless steel bands are used on each end of our water cooled cables to assure maximum sealing.
- Every Watteredge water cooled cable receives both a 125 PSI static test and a dynamic water test to duplicate actual operating conditions.

7. Terminals

- Terminals are machined from high conductivity electronic lead free copper to exacting standards to size and finish.
- Silver plating is done by the tank immersion method using electro-deposited pure fine silver anode bars, or by the electroplating process as determined by our customers' water cooled cable requirements.