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.
   • Southwire offers a wide range of materials depending upon the application.

2. Anti-chafing Gear
   • Double groove bumpers are a standard feature of every Southwire 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 Southwire 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 Southwire 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 Southwire core is a rubber and nylon material, there is no friction wear between it and the cable stranding.
5. Covering
- The water cooled cable covering is made exclusively for Southwire to our exact specifications to insure long life, maximum flexibility, ozone resistance, heat resistance and abrasion resistance.
- Southwire 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 Southwire 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.