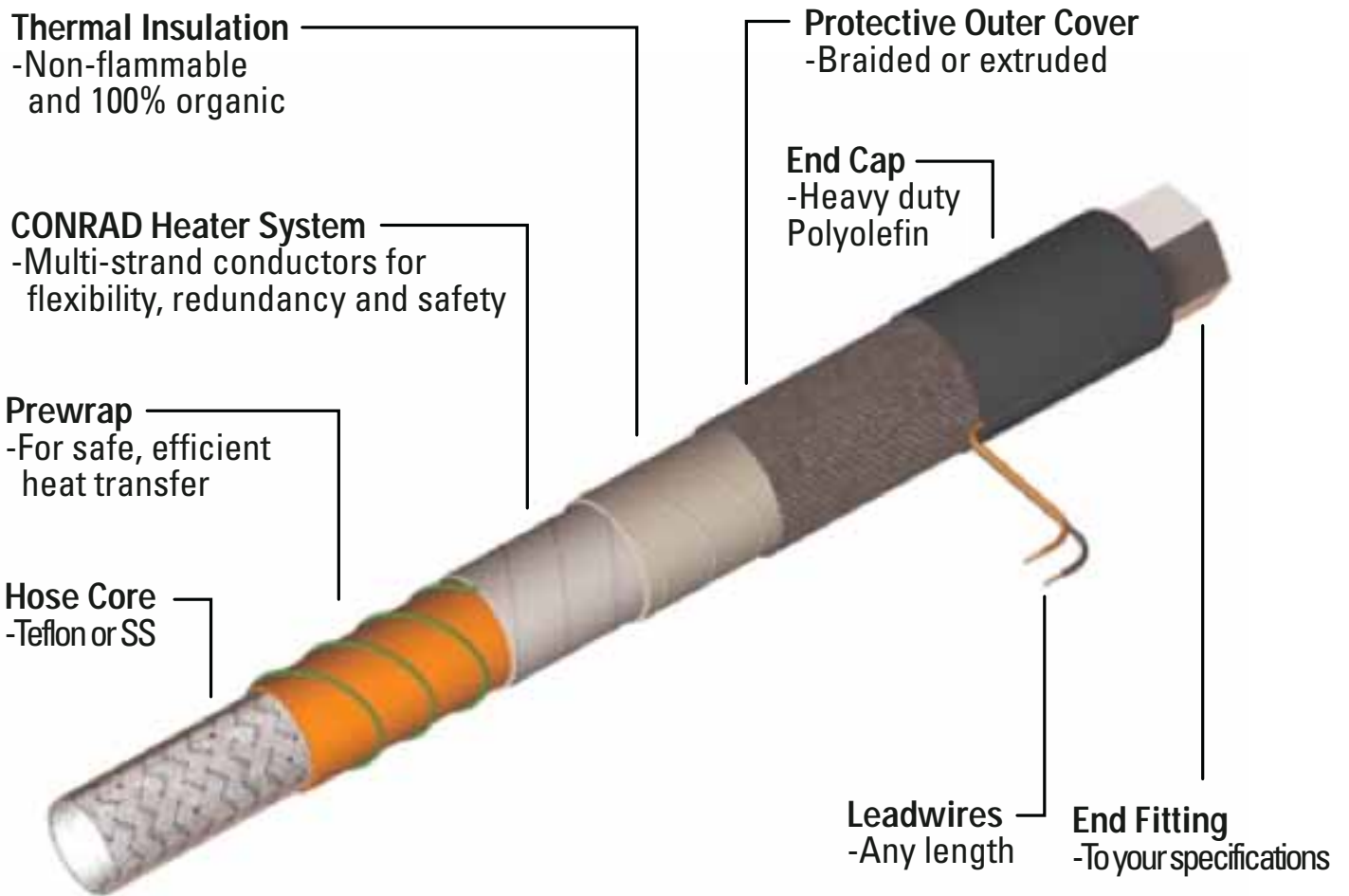




CONRAD

CONRAD ELECTRICALLY HEATED HOSES

Cutaway View Of A Typical Conrad Heated Hose Assembly





CONRAD

CONRAD ELECTRICALLY HEATED HOSES

TYPICAL HOSE DESIGN

CONRAD HEATED HOSES are custom designed and manufactured incorporating proven materials throughout. Hoses are available in a wide selection of hose core inner diameters and in any desired length from 10 inches to over 100 feet long.

The Hose Inner core is comprised of extruded DuPont® PTFE Teflon, 0.030" or 0.040" wall thickness, which offers exceptional resistance to temperature cycling and kinking. For applications requiring exposure to temperatures in excess of 500°F(260°C), hoses are furnished with an all metal, corrugated inner core and a high temperature 750°F(400°C) resilient fiberglass heater and insulation. Pricing and specifications for high temperature hoses are available from the factory.

The Hose Reinforcement is provided by one or multiple layers of braided type 304 Stainless Steel wire. Nominal pressure ratings are 25% of the demonstrated burst pressure.

The Hose End Fittings are a progressive swage or crimp design and are available in Stainless Steel, Brass, or Aluminum. Choose between a Male Pipe Thread, Female 37° JIC Swivel, Cam and Groove, Sanitary Flange, or many other end fitting options.

The Heating Element is comprised of a strong nickel alloy utilizing multiple end, fine gauge wire stranding for maximum resistance to flexing while offering a large heated surface area (90%) for optimal heat transfer compared to single conductor types of heating elements. Individual strand bundles are fixed in place and insulated with flexible, high-temperature fiberglass. A layer of silicone rubber serves as an elastic cushion as well as a dielectric insulator to isolate the abrasive effects of the hose core braid.

Hose Thermal Insulation is provided by multiple layers of a high quality and nonflammable material which incorporates excellent temperature resistance, flexibility, and light weight while maintaining a cool running outer surface.

The Outer Cover of tough polyester braided jacketing serves to protect the hose, insulation, and internal components while presenting an attractive finished appearance.

The Hose Ends are finished with a tight fitting molded cover of Polyolefin. All integral components are bonded together within the assembly and to the hose core to prevent chemical or flexible damage and separation in use.

Electrical characteristics will match any requirement of voltage, phase and power needed. A variety of wiring options, temperature sensors, temperature controllers, and temperature control methods are available to match most requirements.

Typical Heated Hose applications include:

- Packaging Industry
- Photographic Development Solutions
- Paper Mills
- Corrugated Cardboard Lamination
- Automobile Manufacturing
- Chemical Transfer
- Automobile Emissions Testing
- Plastic and Rubber Extrusion
- Laminated Glass Manufacturing
- Two Part Foam Transfer and Application
- Food Transfer (FDA approved)