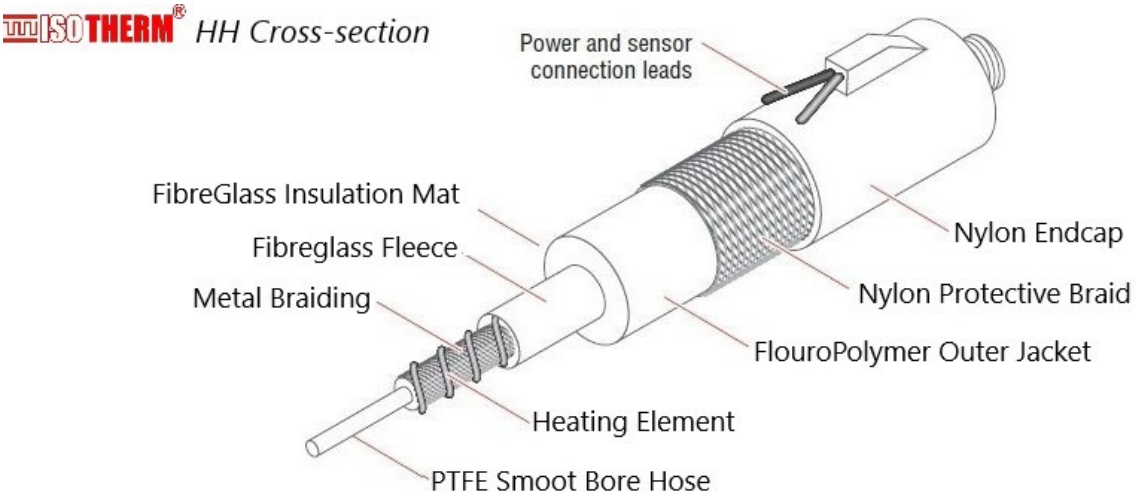
Product Description

Heated Hoses/Heat Trace Lines:

Heated Hoses are needed to maintain critical temperatures, to avoid condensation of gas or drop in fluid temperature during Gas Analyser Sampling, Petroleum or Chemical Transfers and Food Processing. These flexible and lightweight tubes can withstand aggressive high-pressure fluids and high temperatures involved in the transfer of fluids. Heated Hose comprises of a process tube bundled with the insulated electrical heating element and wrapped with a heat reflecting foil. The temperature sensor is provided at about 300 mm from the power connection end. This bundle is insulated and provided with an outer jacket. Ends are sealed suitably and electrical connections for both power and control are brought out.

The most common heated hoses applications include:

- Freeze protection
- Temperature maintenance



Types of Heated Hoses:

1. **Liquid Transportation Hoses:** ISOTHERM™ offers hoses to avoid a drop in fluid temperature during transfers. Prefabricated with sample line and heating system incorporated, is ready to use. No need for any fabrication and fixing, ready to use with required connectors and end connections. Since there is no need for any special tools, it is easy to install. Inbuilt temperature sensor (RTD / Thermocouple / Temperature switch) provided with suitable external connection or precise temperature control. Depending on the application and site conditions (viz. temperature, weather conditions, and chemical environment) we can offer various options to match your individual needs.

   Features:

   - Up to 440 Volts
   - Up to 280°C (536°F) withstand temperature
   - Long circuit lengths available
   - Corrugated, Extruded Polymer & Braided outer sheaths available.
   - Used in applications such as freeze protection of liquids, process temperature maintenance, etc.
   - Custom configurations available.

2. **Gas Transportation Hoses:** ISOTHERM™ offers hoses to avoid a drop in gas temperature during transfers to flue gas analysers. Prefabricated with sample line and heating system incorporated, is ready to use. No need for any fabrication and fixing, ready to use with required connectors and end connections. Since there is no need for any special tools, it is easy to install. Inbuilt temperature sensor (RTD / Thermocouple / Temperature switch) provided with suitable external connection or precise temperature control. Depending on the application and site conditions (viz. temperature, weather conditions, and chemical environment) we can offer various options to match your individual needs.

   Features:

   - Up to 440 Volts
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   - Used in applications such as freeze protection of gas, process temperature maintenance, etc.
   - Custom configurations available.

Features:

Standards	Heat Tracer or Heating Cable, used in the Heated Hose meets all test requirements as per BS / IEEE / European Standards.
Approvals	Heat Tracer or Heating Cable used in the Heated Hose is certified by CMRI India, CCOE India
Precise Temperature Control	Inbuilt temperature sensor (RTD / Thermocouple / Temperature switch) provided with suitable external connection or precise temperature control.
Flexibility	Constructed with an outer jacket, which is corrugated or braided and hence very flexible.
Efficient	Heat reflective foil on the heating cable and process tube ensures efficient heat transfer.
Ready to use	Prefabricated with sample line and heating system incorporated, is ready to use.
Easy to install	No need of any fabrication and fixing, ready to use with required connectors and end connections. Since there is no need for any special tools, it is easy to install.
Range	Depending on the application and site conditions (viz. temperature, weather conditions, and chemical environment) we can offer various options to match your individual needs.

Technical Specifications:

Process Tube	PTFE,SS316 Smooth Bore
Process Tube Size	Up to 1" ID
Heating Element	Constant Watt/Self Regulating
Thermal Insulation	Fiberglass wool / Silicon Sponge / Polyurethane Foam
Outer Jacket	Corrugated Flexible Conduit or SS Conduit Braided Sleeve or Flouropolymer Jacket
Protective Braiding(Optional)	Nylon Braiding/SS Braiding
Operating Voltage	230V / 110V AC / As per requirement.
Max. Length	100M
Max. Operating Temperature	Upto 280^{O}C
Max. Operating Pressure	Upto 300 Bar
Temperature Sensor	In built RTD / Thermocouple/ NTC
Process Connection	Connector Coupling / Flanged / as per customers requirement
Power/Control Connection	2M of Lead cable (3wire) for both power and sensor / As per reuqirement.