

Thermopads

Thermo Constant Watt Tracers-CTL- Cut to length heat tracers for industries

Thermotrace CTL Electrical Heat Tracers are cut-to-length parallel heat tracers for maintaining product temperature inside vessels, tanks, pipeline or equipments to keep viscous fluids in flow state avoiding choking of pipelines. Thermotrace CTL-PT (Fluoropolymer PTFE insulated), CTL-SR (Silicon Rubber insulated) is used in the process industry - Oil & Gas Petrochemical, Power, Chemicals & Fertilizers, Metallurgical, Cement, Pharma, Food and Edible oil industries. Thermotrace CTL-ZH (Polyolefin insulated) finds application for freeze protection in commercial and industrial segments.



Construction

1. Buswires of multistrand copper
2. Insulation (Fluoropolymer / Silicon Rubber / LSZH) depending on temperature application
3. Heating Element
4. Insulation Sheath
5. Metallic braiding for mechanical protection and earth continuity
6. Outer Jacket (optional) to enable use in corrosive / Hazardous atmosphere.

Features

Standards	Meets all test requirements of CTL-PT / SR/ ZH to EN 62395-1 and CTL - PT to EN 60079-0, EN 60079-30-1 & EN 60079-31
Approvals	CTL-PT: Central Institute of Mining and Fuel Research (CSIR-CIMFR), Dhanbad And certified by Petroleum & Safety Organization (PESO) / Nagpur, for Zone II , TI (ATEX) for Zone I / Division II & EAC for use in hazardous area applications CTL – PT / SR/ ZH : CE and EAC
Rugged construction	Outer metallic braid in CTL/PT & CTL/SR makes it robust and suited to hostile conditions
Efficient Heat Transfer	Flexible and flat configuration of the Thermotrace CTL enables an intimate contact with the surface to be heated, ensuring efficient heat transfer
Cut to Length	Thermotrace CTL is supplied in continuous long lengths, which can be cut to desired lengths

Technical Specifications

Model	CTL ZH	CTL SR	CTL PT
Bus conductor	2x1.5sq.mm	2x1.1sq.mm	2x1.5sq.mm
Bus insulation	Polyolefin	Silicon Rubber	Fluoropolymer
Sheath	Polyolefin	Silicon Rubber	Fluoropolymer
Braid	Copper/Coated Copper or Stainless Steel	Copper/Coated Copper or Stainless Steel	Copper/Coated Copper or Stainless Steel
Supply Voltage	230V	230V	230V
Power Output (W/m)	10 20	10 20 30 40	16 25 33 45 60
Max.circuit length (m)	160 112	160 100 90 60	125 100 90 75 60
Max.Operating Temperature (°C) (Power On)	40 35	190 175 180 120	220 200 180 165 150
Max. Withstand Temperature(°C) (Power Off)	80°C	180°C	260°C
Min. Installation Temperature (°C)	-15°C	- 50°C	- 65°C
Min . Bend radius	30mm	20mm	25mm

Can also be custom designed to specified operating voltages

Range

Depending on the application and site conditions (viz. temperature, weather conditions, chemical environment), various insulating materials for Thermotrace CTL can be offered.

