

Thermotrace Self Limiting / Regulating Tracer - HTT - For High Temperature Applications.

Thermotrace Self limiting regulating tracer is ideally suited for high temperature applications for Tanks & pipeline. It is suitable for maintaining temperatures up to 180 Deg.C. These tracers can withstand temperatures associated with steam purging operations in the pipelines.

Construction.

1. 3.3 Sq.mm Coated Copper Bus wires.
2. Fluoropolymer Insulation
3. Coiled Heater Alloy Heating Element.
4. Fibre glass braid.
5. Fluoropolymer Jacket providing electrical insulation, mechanical strength & moisture resistance
6. Coated copper braid to give a continuous ground path.
7. Outer jacket UV resistant Fluoropolymer to enable usage in corrosive area & high temperatures.



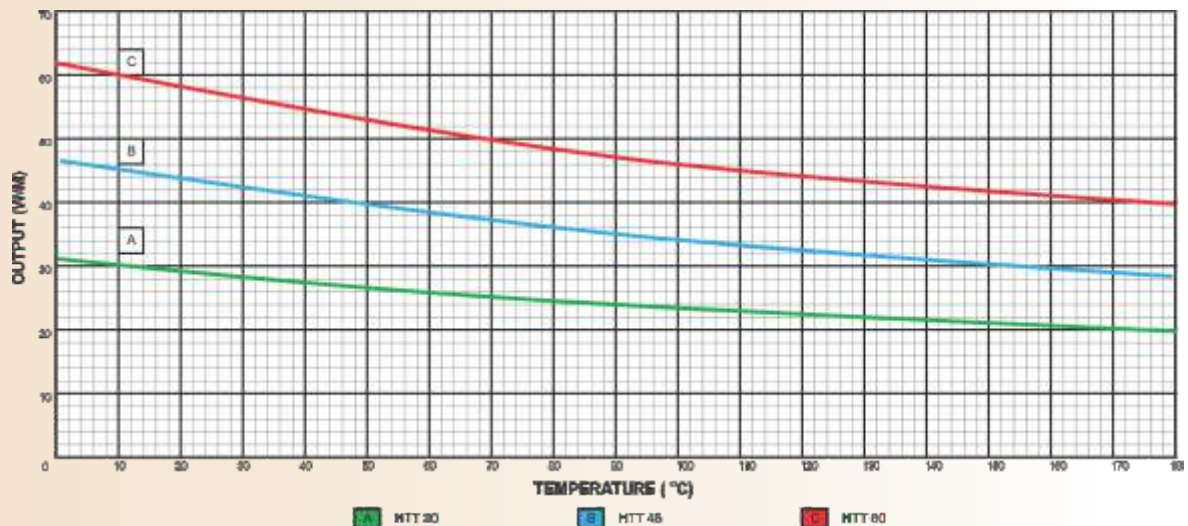
Features.

- Standards : Meets applicable test requirements of IS / EN / IEC 60079 – 30 – 1
- Approvals : Certified by Central Institute of Mining and fuel research / CMRI – Dhanbad, ATEX, EAC Petroleum & Safety Organization (PESO / CCOE) – Nagpur for Zone - 1
- Safety : This coiled resistor alloy heating element provides the self- limiting feature to the cable. This PTC (Positive Temperature Coefficient) characteristic of resistance alloy conductor decreases the cable's power output as the temperature increases there by stabilizing the outer sheath temperature of the tracer.

Cut to Length : Thermotrace HTT is supplied in continuous long lengths which can be cut to desired lengths.

Technical Specifications

Catalogue Ref.	HTT30	HTT45	HTT60
Heating Power W/m (230 VAC) at 10° C	30	45	60
Voltage Supply	230VAC, 50Hz, 110 / 120VAC on request		
Zone Length (MM)	1000	815	705
Max. Installation Temperature Power On.	180	165	150
Max. Exposure Temperature Power Off.	260°C		
Min. Installation Temperature	-65°C		
Min. Bending radius	25mm		



Thermopads

Heat Tracers Thermotrace-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 (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 (PTFE/Silicon Rubber/LSZH) depending on temperature application
3. Heating Element
4. Insulation Sheath
5. Coated Copper(ATC/NPC) braid for mechanical protection and earth continuity
6. Outer Jacket (optional) to enable use in corrosive atmosphere.



Features

Standards	Meets all test requirements of BS-6351 and IEC 62395
Approvals	Certified by Central Institute of Mining and fuel research / CMRI - Dhanbad, Petroleum & Safety Organization (PESO / CCOE) - Nagpur for use in Hazardous location. Certified by 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	LSZH		Silicon Rubber				PTFE			
Sheath	LSZH		Silicon Rubber				PFA			
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
Max.circuit length (m)	160	112	160	100	90	60	125	100	90	75
Max.Operating Temperature (°C) (Power On)	40	35	190	175	180	120	220	200	180	150
Max. Withstand Temperature(°C) (Power Off)	80°C		220°C				260°C			
Min. Installation Temperature (°C)	-15°C		- 50°C				- 65°C			
Min . Bend radius	30mm		20mm				20mm			

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.

