

Thermopads

Heating cables HE1/ HC3/Ex-HC3 - For safe and hazardous areas

Heating Cable HC3/Ex-HC3 are series heating cable used for temperature maintenance in pipelines and storage tanks to keep fluids in flow state. They find application for process heating requirements in Oil & Gas, Petrochemical, Power, Chemicals & Fertilizers, Metallurgical, Cement, Pharma, Food and Edible oil industries.

Heating cables HE1 is series heating cable used for heating mold

Construction

1. Heating Element Single Conductor (multistrand/spiraled)
2. Primary Fluoro Polymer Insulation
3. Coated Copper braid for mechanical and earth continuity
4. Fluoropolymer Outer Jacket

Features

Standards	VDE 0253, UL 758, IEC/EN 60079-0 & IEC/EN 60079-7&IEC/IEEE/EN60079-30-1 requirements
Approvals	HE1&HC3 CABLE: UL, VDE, EAC for use in safe area EX-HC3 CABLE: IECEX, Baseefa, CSA Group, EAC, TI (ATEX) for Zone 1 / Division II, central institute of Mining and Fuel Research (CSIR - CIMFR), Dhanbad and Certified by Petroleum & Safety Organization (PESO)/ Nagpur, for Zone II for use in hazardous area
Long life	PTFE insulation used has excellent electrical properties, fire-resistant, inert to most chemicals, virtually non-ageing and can withstand high temperature continuously



Technical Specifications

SERIES CABLES	HE1 CABLE	HC3 CABLE	EX-HC3 CABLE
Heating conductor	As per the resistance range given		
Insulation	Fluoropolymer.	Fluoropolymer.	Fluoropolymer (with kapton tape)
Braid	Coated Copper (Optional).	Coated Copper.	Coated Copper.
Outer Sheath	–	Fluoropolymer.	Fluoropolymer.
Supply Voltage	300/500V.	300/500V.	Upto 750 VAC.
Power Output (W/m)	–	–	Max. 30W/m.
Max. Operating Temperature	180 Deg.C	180 Deg.C	180 Deg.C
Max. Withstand Temperature	250 Deg.C	250 Deg.C	260 Deg.C
Temperature Classification	–	–	T6 to T2.
Min Installation Temperature	–	–	– 65 Deg.C
Mechanical Strengths	–	–	Low Risk Mechanical damage 4J / High Risk Mechanical damage 7J.
Min. Bending radius	6 X Diameter of the cable.	6 X Diameter of the cable.	6 X Diameter of the cable.
Applications	Heating mold.	process heating requirements in Oil & Gas, Petrochemical, Power, Chemicals & Fertilizers, Metallurgical, Cement, harma, Food and Edible oil industries.	

Range

Standard manufacturing linear resistances (ohms/KM) are as below and are supplied in reels of 500 to 1000M lengths -
 0.8 / 1.1 / 1.8 / 2.9 / 4.4 / 7 / 10 / 11.6 / 15 / 17.8 / 25 / 31.5 / 50 / 68 / 100 / 150 /
 170 / 200 / 240 / 330 / 370 / 500 / 730 / 1000 / 1440 / 1730 / 2160 / 2400 / 3000 / 4000 / 5600 / 8000.

Wide range of linear resistances per meter and can be designed for longer lengths.

Cables to suit specific needs with insulation of Silicon Rubber, PVC and other combinations can also be manufactured.

