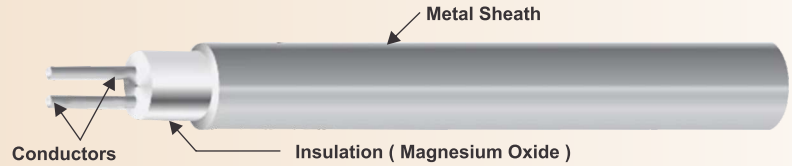
Thermopads

Thermo Mineral Insulated Cable - TMIC



Thermo Mineral Insulated cables(TMIC) are often used for temperature maintenance of piping, tanks and also for freeze protection applications. The Thermo Mineral Insulated cable can also be used as power cable for High temperature applications. The products are series circuit constant watt heaters.

These cables are robust, fire-resistant, and capable of with standing extreme environmental conditions, which are essential for heating applications in industrial, commercial, and residential settings.

Construction.

The Thermo Mineral insulated cables are made up of a metal conductor or conductors embedded in an inorganic insulant of compacted ceramic, typically, magnesium oxide powder inside a metal sheath. The inorganic nature of the construction enables the cables to operate for long periods at high temperatures or in extremely harsh environments e.g.petrochemical, reactor vessels, automotive and other applications where the integrity of the cable is most important.

Features.

Compliance	Standards: EN60079-0, EN60079-30-1
Approvals	IECEx, ATEX
Rugged construction	Outer Metallic sheath makes it robust and suited to hostile conditions.
Fire Resistance	The magnesium oxide (MgO) insulation in TMIC cable s is non- combustible, providing a high level of fire safety.
Custom built	We also offer custom designs of a product to suit individual requirements. We can design for v arious dimensions and voltages

Ranges:

Depending on the application and site conditions (viz. temperature, weather conditions, chemical environment), we can offer options of various insulating materials for TMIC to match your individual requirements.

Heating cables and units with copper sheath typically upto 200°C.
Heating cables and units with cupronickel sheath typically upto 400°C.
Heating cables and units with stainless steel and nickel alloys sheath typically upto 600°C.

Specifications:

Maximum Rated Voltage	600 V ac for assembled unit & 750 V ac for cold lead cables.
Minimum Bending Radius	Minimum Six times the cable cross sectional diameter.
Ambient Temperature	-65 Deg.C to +55 Deg.C
Maximum Maintenance Temperature	+500 Deg.C