



Introducing World Class
Heater Mineral Cable Technology

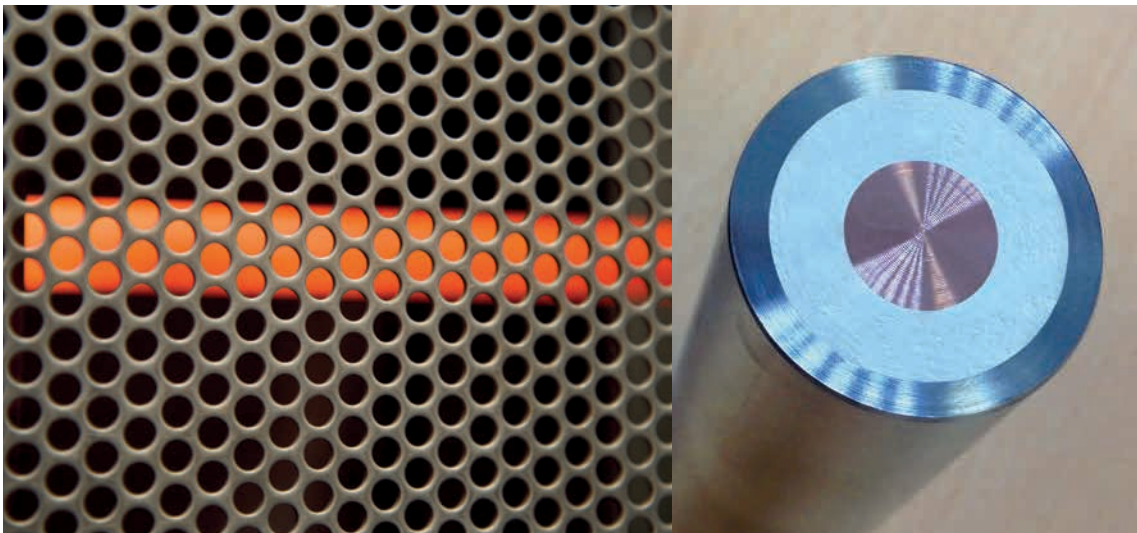


Introducing MC AAA

MC AAA Ltd is a pioneering manufacturer of stainless steel sheathed, single core mineral insulated power and heating cables, located near Chester UK. These new cables are capable of operating at high voltages and temperatures that have never been achieved before commercially.

The MC AAA high voltage heater system provides a new technology for down-hole application. Electric down-hole heating has been used for many years for flow assurance and is now being adapted for reservoir stimulation, viscosity reduction and 'in situ' conversion of heavy oil.

In the past heater voltages have been limited to below 600 volts for mineral insulated cable heaters. Significant material and processing advances have now permitted operation at 4160 volts and higher.



This has a number of operational advantages in providing longer length heater capabilities and less parasitic heating loss to overburden.

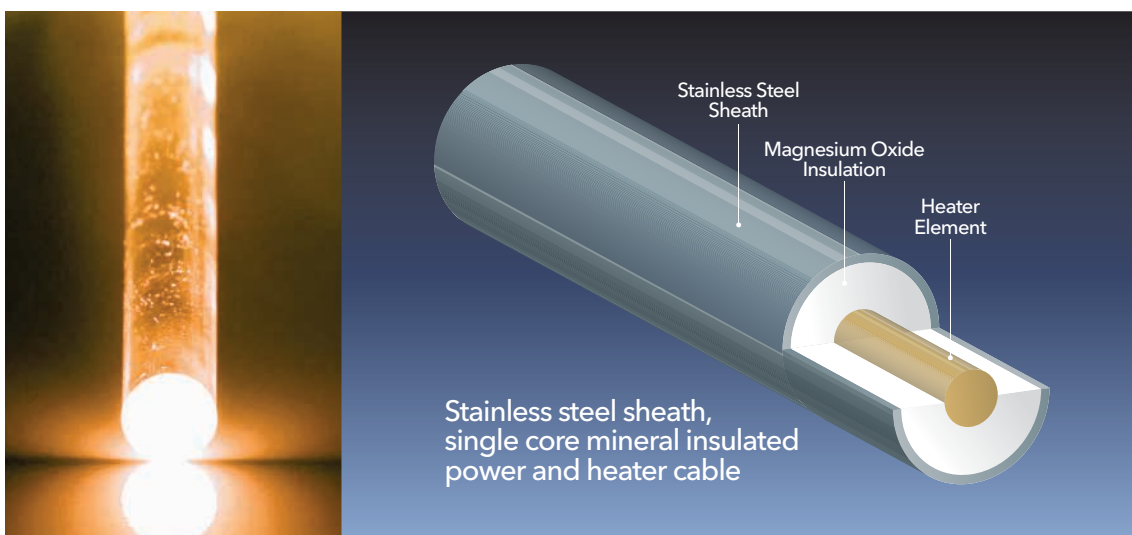
MC AAA cable production technology is now available to fabricate MI cable heater that can produce 1600 metre lengths without external splices.

The thermal heat transfer from the well casing to the reservoir is usually the limiting factor on the amount of energy that can be transferred from the electric heater to the formation. This will control the optimum design wattage which in turn determines the conductor resistance per unit length.



Main Features

- Cables fully customisable to customer specification
- Sizes from 0.8" to 1.2" available (OD)
- Operating voltage of 5000 volts
- Conductor sizes from 0.25" to 0.375" available (OD)
- Operating temperature of 500°C
- Single lengths of 1600 meters
- Power transmission and heater cables available, or combinations of both as factory finished cable



Main Uses

- Oil & gas industries
- Down-hole heating
- Heavy oil flow assurance
- SAGD pre-heating
- In situ steam generation
- Offshore heaters
- Power cables for hazardous environments



Our purpose at MC AAA is to give superior value
to our customers by manufacturing and delivering
World Class Heater Mineral Cable Technology

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