Self-Regulating Heating Cable CTE

CTE is an industrial-grade self-regulating heating cable used to prevent formation of ice and accumulation of snow on outdoor industrial sites (open pump sites, ramps, helipads).

Due to its self-regulating characteristics it will not overheat even when the cable is overlapped. This guarantees maximum safety and reliability.

Installation of CTE heating cable is quick and simple and requires no special skills or tools.

Thanks to its parallel construction the power output of the heating cable is everywhere the same.

Thus it can be fitted on site to exact piping length without any complicated design calculations.

CTE can be supplied as pre-fabricated connection-ready sections with cold leads.

Features

- 80 W/m
- Self-regulating, automatically adjusts power output in response to ambient temperature
- Thermoplastic outer jacket
- Easy to install

- Can be cut to required length on site without any complicated design calculations
- Will not overheat even when overlapped
- Full range of accessories available

Application Areas

- Temperature maintenance or freeze protection of pipelines and vessels in non-hazardous and ex-hazardous areas

1. Nickel-plated copper conductors, 2.00 mm^2
2. Semi-conductive self-regulating matrix
3. Matrix insulation
4. Tinned copper braid
5. Thermoplastic outer jacket

Versions

CTE...BT   Thermoplastic elastomer outer jacket with tinned copper braiding

Technical Data

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Rated voltage	230 VAC
Maximum continuous operating temperature (energized)	+80 °C
Maximum continuous exposure temperature (de-energized)	+100 °C
Ambient temperature range	-60…+55 °C
Minimum installation temperature	-30 °C
Minimum bending radius	25 mm
Maximum braiding resistance	10 Ohm/km
Conductor cross-section	2.00 mm^2
Dimension (CTE…BT)	16.8 × 7.2 mm
Weight (CTE…BT)	215 kg/km

Maximum Heating Circuit Length

For use with type C circuit breakers according to IEC 60898-1:2015

Type	Turn-on temperature, °C	Heating circuit length/m at 230 VAC	
		25 A	30 A
80CTE	10	78	83
	0	76	80
	-10	74	76
	-20	72	74
	-30	69	72
	-40	65	69

Power Output Curve

Nominal power output at rated voltage 230 VAC
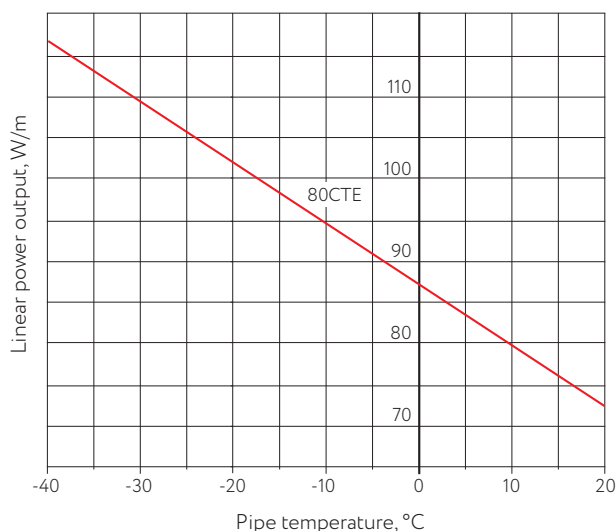
Marking

Example: 80CTE2-BT
① ②③④ ⑤⑥

1. Linear power 80 W/m (to IEC 60079-1-30)
2. Type of self-regulating heating cable:
   CT – mid-temperature
3. Cable version: E – for industrial applications
4. Rated voltage: 2 – 230 VAC (other voltages on request)
5. Braiding material: B – Copper tinned wire
6. Outer jacket material: T – Thermoplastic Elastomer

Approvals

CE

Accessories
(to be ordered separately)

TKT/M kit for connection to the installation wire (without boxes).

Zinc-plated fastening tape for securing the cable.

Types

Outer jacket type	Order code	Outer jacket color	Name	Power output, W/m
Thermoplastic elastomer outer jacket, braiding	3201005100	Green	80CTE2-BT	80