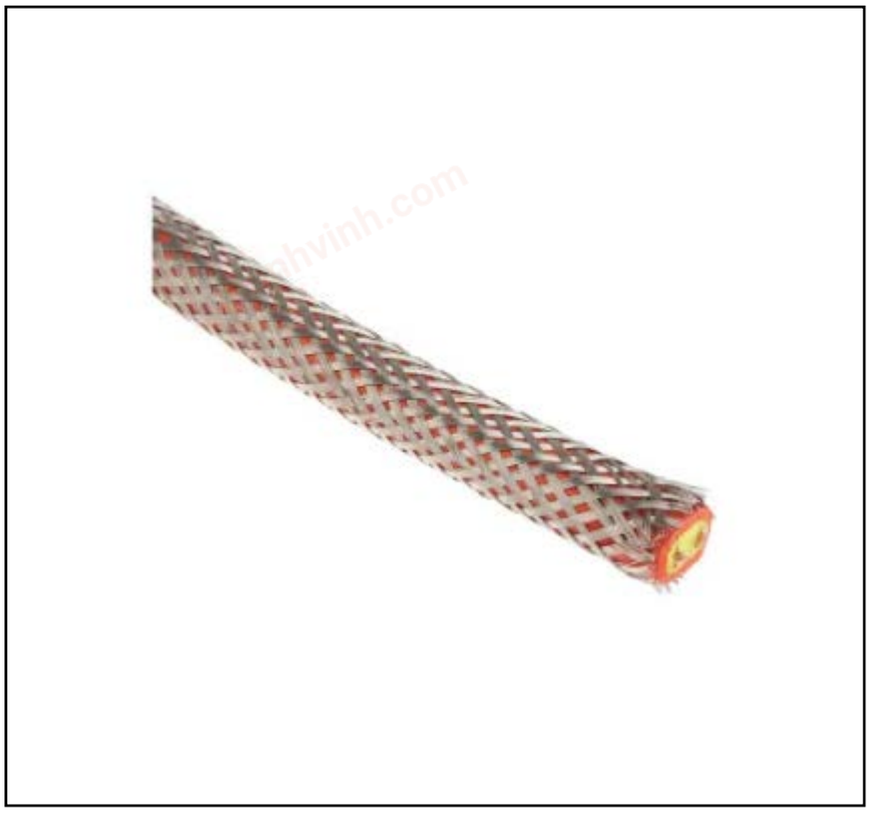
Trace Heating Cable

FEATURES

- Flexible - can be wrapped around pipes
- Various lengths available
- Constant wattage heating cables

RS PRO 40W/m Trace Heating Kit Constant Wattage, Parallel Circuit, 240 V, 50m

RS Stock No.: 665-7429



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Trace Heating Cable

Product Description

RS PRO range of parallel circuit heating tape, with a constant wattage output for process temperature maintenance applications. This tape is flexible enough to allow it to be spiralled around a suitable pipe or vessel.

Trace heating cable options include:
703-3114 - 20W/m, 110 V, 20m cable
703-3120 - 40W/m, 110 V, 20m cable
703-3123 - 40W/m, 110 V, 50m cable
379-744 - 20W/m, 240 V, 20m cable
665-7422 - 20W/m, 240 V, 50m cable
665-7425 - 20W/m, 240 V, 100m cable
379-750 - 40W/m, 240 V, 20m cable
665-7429 - 40W/m, 240 V, 50m cable
665-7438 - 40W/m, 240 V, 100m cable
665-7431 - Trace Heating Kit Frost Protection, Parallel Circuit

General Specifications

Cable Type	Constant Wattage; Parallel Circuit
Self-Regulating	No
Sheath Material	Silicone Rubber
Standard Met	BS EN 62395-1:2006
Applications	Frost protection; Water, oil and chemical lines; Sprinkler system mains; Supply piping; Not for use in hazardous areas

Electrical Specifications

Output Per Metre	40W
Voltage Rating	240V

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Trace Heating Cable

Mechanical Specifications

Length	50m

Operation Environment Specifications

Operating Temperature Rating	-60 to 200°C

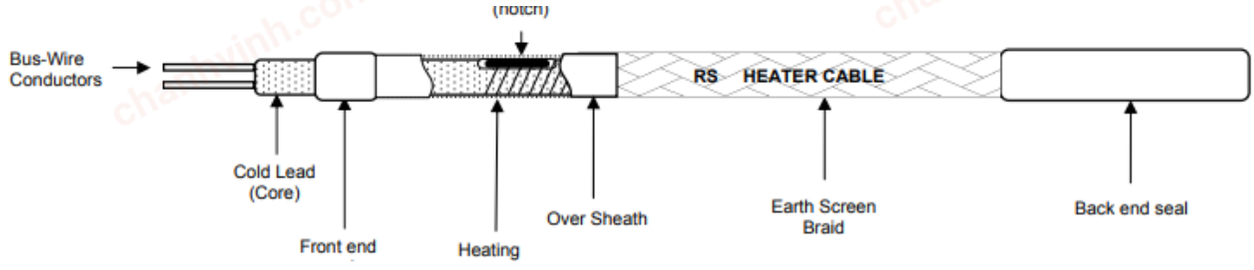




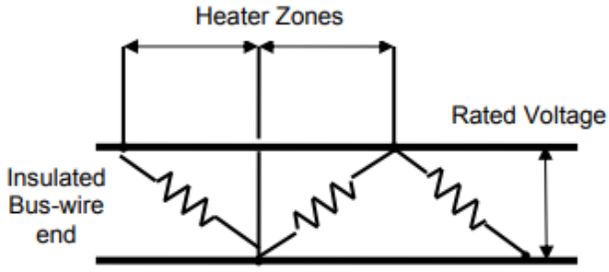


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Trace Heating Cable



Electrical



Rated Voltage - AC/DC.
Heater Zone 1.0m.

A 30mA trip Residual Current Circuit Device (RCCB) or Earth Leakage Circuit Breaker (ELCB) should be used with heating tapes.

Heat Losses (to BS EN 62395-2:2008)

To calculate heat loss per metre of pipe:-

$$\text{Heat losses W/m} = \frac{2\pi k\,(T_p - T_a)}{\ln\left(\frac{D_2}{D_1}\right)}$$

where:-

k = Thermal Conductivity of insulation layer at its mean temperature
T_p = Maintain Temperature
T_a = Minimum Ambient temp
D_1 = Inside Diameter of the Insulation Layer
D_2 = Outside Diameter of the Insulation Layer

Thermal Conductivity (k) for Mineral/Glass Fibre

Mean Temperature °C	10	50	100	200
k	0.032	0.035	0.43	0.062

A Design Factor Allowance should be taken of:
Maximum heater resistance tolerance (± 10%) and
Voltage variation (± 6%)

$= \frac{1.1}{(0.94)^2} = 1.25$ x Heat Loss.

A further design factor of 10% may be added.