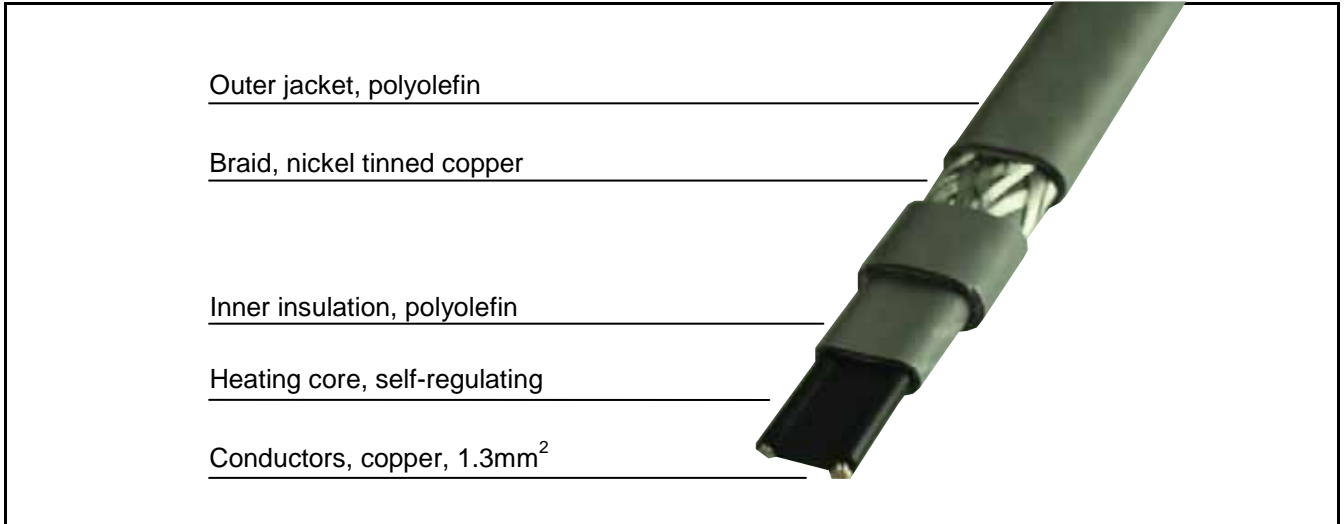


FreezCheck

To prevent pipes from freezing and to maintain pipe temperatures.

Self-regulating, parallel circuit electric trace heating cable. Withstands 85°C when de-energised.

Cable construction



Application

Area type	Hazardous Zone 2 General Purpose
Contamination compatibility	Mild inorganic corrosives
Host surfaces	Metallic and plastic piping
Tracing contact	Common non-setting adhesives Common thermoplastics and elastomers Common paints Common pipe insulation materials

Physical attributes

Conductor construction	Nickel plated copper, twisted strands
Conductor size	1.3 mm ²
Inner insulation material	Flame retardant polyolefin
Earth braid construction	Nickel tinned copper
Maximum earth braid resistance	18.2 Ω/km
Outer jacket material	Insulative flame retardant polyolefin
Voltage ratings	Inner insulation: 6kV, outer insulation: 3kV
Nominal cross section dimensions	11.2 x 5.6 mm
Marking	Every 1 metre: CE mark, ratings, length graduation, serial number
Weight	0.092 kg/m
Maximum withstand temperature	65°C, when energised, 85°C when de-energised
Minimum installation temperature	-50°C
Minimum bend radius at 0°C	20mm (15mmØ copper pipe)

FreezCheck

Thermal Output

Heat output at 230Vac on lagged metallic pipe.

At 0°C	13.0 W/m
At 5°C	11.5 W/m
At 10°C	10.0 W/m

Pipe Insulation

Insulation thickness (mm) necessary to maintain nominally 5°C in a minimum ambient temperature of -15°C.

Insulation mean conductivity	Outside Diameter of Pipe (mm)											
	15	22	28	35	42	48	54	76	89	114	168	219
0.025 W/mK	15	15	15	15	15	15	15	20	20	25	35	45
0.035 W/mK	20	20	20	20	20	20	20	25	30	40	50	60
0.045 W/mK	9	13	13	19	19	25	25	50	50	-	-	-

Please consult office:
if piping is plastic,
if pipe sizes are greater than 219Ø

Power Supply

Rating	230V AC ± 10%, 50Hz
Protection	Type C or D breaker (BS EN60898) RCD recommended
Local isolator	Unfused, typically the 20Amp rated, double pole type

Maximum aggregate length of **FreezCheck** permitted in a system according to breaker size and switch-on pipe temperature.

Pipe temperature	Breaker Size (Amps)			
	6	10	16	20
3°C	77m	128m	170m	170m

Ancillaries

For precise thermostatic control and power supply connection	TraceStat2 digital thermostat with volt-free contacts for BMS, ±1°C.
For conductor termination	TKH20 kit
For branch joints	JB420B trace heating junction box, connects up to four FreezCheck cables
To fix FreezCheck to the pipe	TP105 high temperature fixing tape and / or CN20048 tie-wraps
To fix a TraceStat2 to the pipe	BS90 or BS280 pipe clamps
To fix a JB420B to the pipe	CN20048 tie-wraps
For hazard notification	LHazP caution labels every 3 to 5m on the outside of the pipe insulation