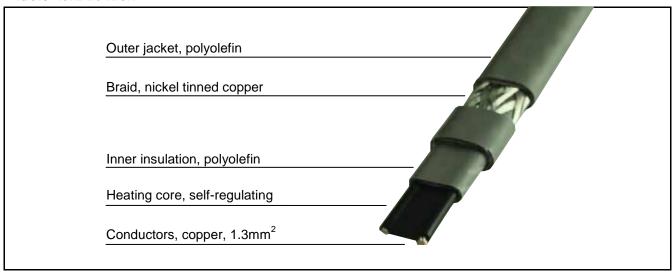


To maintain Hot Water Service pipe temperature without the need for a control device.

Self-regulating, parallel circuit electric trace heating cable. Withstands 80°C continuously.

Cable construction



Application					
Area type	Public Health				
	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	12.8 x 5.5 mm				
Marking	Every 1 metre: CE mark, ratings, length graduation, serial number				
Weight	0.102 kg/m				
Maximum withstand temperature	80°C, when energised, 100°C when de-energised				
Minimum installation temperature	-50°C				
Minimum bend radius at 0°C	20mm (15mmØ copper pipe)				

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Thermal Output									
Heat output at 230Vac on lagged metallic pipe.									
At 50°C	11.5 W/m	1							
At 55°C	9.5 W/m								
At 60°C	7.5 W/m								
Pipe Insulation									
Insulation thickness (mm) necessary to maintain nominally 55°C in a minimum ambient temperature of 18°C.									
			Outside	Diameter	of Pipe (mm)			
Insulation mean conductivity	15	22	28	35	42	2	48	54	
0.025 W/mK	15	15	15	20	25	5	30	30	
0.035 W/mK	20	20	25	30	40)	50	50	
0.040 W/mK	19	25	32	50	50)	-		
Please consult office: if piping is plastic, if pipe sizes are greater than 54Ø									
Power Supply									
Rating	230V AC	± 10%, 5	0Hz						
Protection	Type C or D breaker (BS EN60898) RCD recommended								
Local isolator	Unfused,	typically	the 20Amp	rated, do	uble pole	type			
Maximum aggregate length of SafeWat permitted in a system according to breaker size and switch-on pipe temperature.									
	Breaker Size (Amps)								
Pipe temperature	6	10	16	20	25	32			
5°C	32	53	85	107	122	122			
12°C	39	64	103	123	130	130			
18°C	45	74	119	137	137	137			
Ancillaries									
For power supply connection	JB420B t	race heat	ing junctio	n box					
For conductor termination	TKH20 ki	t							
For branch joints	JB420B t	race heat	ing junctio	n box, cor	nects up	to four	SafeWa	t cable	
To fix SafeWat to the pipe	TP105 hi	gh tempe	rature fixir	ig tape an	d / or CN	20048 t	ie-wraps		
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								
For BMS signals	Volt-free	contacts							

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