



K55A-K65A

SELF-ADJUSTING HEATING CABLES

TO MAINTAIN THE TEMPERATURE OF FLUIDS - HIGH TEMPERATURE SYSTEMS

- Suitable for maintaining the temperature of liquids in the pipes, for example, domestic hot water
- It can maintain the pipes at a temperature above 70°C, thereby avoiding the formation of Legionellosis bacteria
- Optimisation of energy consumption thanks to the self-adjusting feature of the cable



CODE	Cable length	Power	Maximum room temperature powered	Maximum room temperature not powered	Minimum installation room temperature	Maximum length of the heating circuit from the supply point
K55A100	100 m	9 W/m 55 °C	80 °C	100 °C	-20 °C	130 m
K65A100	100 m	13 W/m 65 °C	80 °C	100 °C	-20 °C	110 m

HOMOLOGATION AND STANDARDS

- CSTB



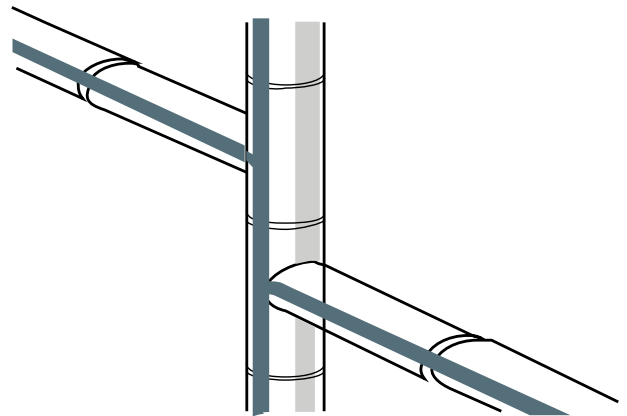
OPERATION

- The heat emission varies automatically without control thermostats being used. They are based on the property of some polymers, with which the conductors are insulated, to vary their resistance according to the temperature which they are subjected to;
- Using a thermostat (L03B11A) allows periodic heating of the system to be guaranteed or to maintain the system temperature constant.

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INSTALLATION

- The heating cable can be secured linearly according to the diameter of the pipe;
- The cable can be cut to the desired length directly during installation;
- Minimum bending radius: 27 mm;
- The power of a metre of cable varies with the room temperature;
- The total power depends on the length of the heating cable. The heating core is active along the entire length of the cable, therefore, a cold tail end must be created so as to have a section with cold terminals (using the KIT2A);
- Secure the cable to the pipe with the relevant fixing tape K50 for steel pipes or K50AL for plastic pipes;
- It is advisable to apply an insulating coating over the heating cable for an effective system.

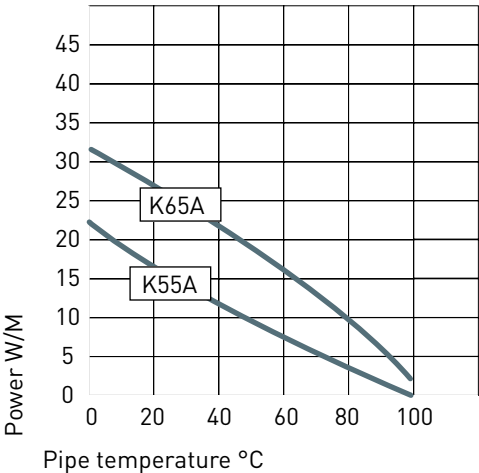


Ø PIPE		INSULATION THICKNESS
mm	inches	mm
10	1/2	19
20	3/4	19
25	1	19
32	1/4	25
40	1 1/2	30
50	2	40
60	2 1/5	50

The table shows the insulation thickness that is required to ensure the temperature in stainless steel and galvanised steel pipes is maintained with a minimum room temperature of +18°C and a thermal conductivity coefficient of 0.035 W/m.

ELECTRICAL FEATURES

Power supply	230V-50Hz
Power delivered	<ul style="list-style-type: none"> ■ K55A100 22.5 W/m at 0°C 9 W/m at 55°C ■ K65A100 31.5 W/m at 0°C 13 W/m at 65°C



CALIBRATION OF THE PROTECTION CIRCUIT

CODE	ROOM TEMPERATURE	MAXIMUM CABLE LENGTH		
		16A	20A	32A
K55A100	20	130	-	-
	55	130	-	-
K65A100	20	110	-	-
	55	110	-	-

GENERAL FEATURES

Cable composition	<ul style="list-style-type: none"> ■ Nickel-plated copper conductors of 1.25 mm² cross-section ■ Self-adjusting conductive core ■ Polyolefin insulating sheath ■ Braided copper sheath ■ Outer sheath in modified polyolefin
Cable length	K55A100 100 m K65A100 100 m
Maximum room temperature powered	80 °C
Maximum room temperature not powered	100 °C
Minimum installation room temperature	-20 °C
Minimum storage room temperature	-20 ÷ -25°C

ACCESSORIES



KBE3A

JUNCTION BOX IN INSULATING MATERIAL

- Protection rating IP54 with 5 4mm² terminals.
- 7 PG16 threaded holes closed by a breakable diaphragm.
- Maximum temperature withstood is 80°C.



KSUPP-A

SUPPORT FOOT FOR THE KBE3A JUNCTION BOX

- It allows the cable to pass through the protective coating of the pipe and to enter directly into the junction box.
- It consists of a Ø 22 L 80 mm pipe with a welded 15x15x60 mm bracket and two clamps.
- The pipe is in cadmium-plated steel with a Pg16 thread.



K50

FIBERGLASS FIXING TAPE FOR METAL PIPES

- It does not shrink and preserves its qualities over time.
- Suitable for temperatures between -30 and + 150°C.
- Roll length 55 m, width 19 mm, recommended fastening range 30 cm.



K50AL

FIXING TAPE FOR PLASTIC PIPES

- It reflects the heat as it is coated with an aluminium film.
- Suitable for temperatures between -20 and + 130°C.
- Roll length 50 m, width 50 mm.



KIT2A

KIT TO SEAL TERMINALS FOR SELF-ADJUSTING CABLES (FOR 1 CABLE)

- To insulate the unpowered end and to prepare the cold tail on the supply side.
Composition:
 - ◇ 1 cable gland union PG16 for infeed into the KBE3A box
 - ◇ 2 Ø 3mm heat-shrinkable sheaths, 100 mm long for the two copper conductors
 - ◇ 2 Ø 12mm heat-shrinkable sheaths, 50 mm long, one at each end

KFAN

LABELS FOR THE PRESENCE OF A HEATING CABLE

- Indicate the presence of the heating cable under the insulating coating.
- To be applied on the coating at intervals of about 5 m; yellow.



L03BM1A

ON/OFF THERMOSTAT - proportional - P.I.D. at 1 outlet

- DIN rail mounting
- 1 probe NTC10K



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Ø PIPE		MINIMUM ROOM TEMPERATURE	DESIRED TEMPERATURE	INSULATION THICKNESS	CABLE TYPE	INSTALLATION
mm	inches					
10	1/2	18 °C	40 °C			
20	3/4					
25	1					
40	1 1/2					
50	2					
75	3					
100	4					
10	1/2	18 °C	50 °C			
20	3/4					
25	1					
40	1 1/2					
50	2					
75	3					
100	4					
10	1/2	18 °C	60 °C			
20	3/4					
25	1					
40	1 1/2					
50	2					
75	3					
100	4					
10	1/2	18 °C	70 °C			
20	3/4					
25	1					
40	1 1/2					
50	2					
75	3					
100	4					