



# K20A-K30A-K40A SELF-ADJUSTING HEATING CABLES TO MAINTAIN THE TEMPERATURE OF FLUIDS

- Suitable for maintaining the temperature of liquids inside pipes
- Power delivered  
~20, ~30, ~40 W/m at 10°C
- Optimisation of energy consumption thanks to the self-adjusting feature of the cable



CODE	Cable length	Power at 10°C	Minimum installation room temperature	Maximum room temperature powered	Maximum room temperature not powered	Maximum length of the heating circuit from the supply point
K20A25	25 m	20 W/m	-35 °C	65 °C	80 °C	170 m
K20A50	50 m	20 W/m	-35 °C	65 °C	80 °C	170 m
K20A100	100 m	20 W/m	-35 °C	65 °C	80 °C	170 m
K20A500	500 m	20 W/m	-35 °C	65 °C	80 °C	170 m
K30A25	25 m	30 W/m	-35 °C	65 °C	80 °C	140 m
K30A50	50 m	30 W/m	-35 °C	65 °C	80 °C	140 m
K30A100	100 m	30 W/m	-35 °C	65 °C	80 °C	140 m
K40A25	25 m	40 W/m	-35 °C	65 °C	80 °C	120 m
K40A50	50 m	40 W/m	-35 °C	65 °C	80 °C	120 m
K40A100	100 m	40 W/m	-35 °C	65 °C	80 °C	120 m

## HOMOLOGATION AND STANDARDS

- CSTB

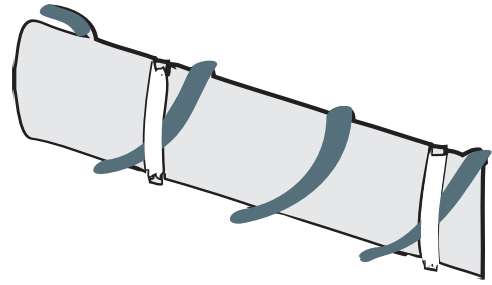


## OPERATION

- The heating cables automatically vary the heat emission without control thermostats being used;
- They consist of conductors insulated by polymers, which vary their resistance according to the temperature which they are subjected to.

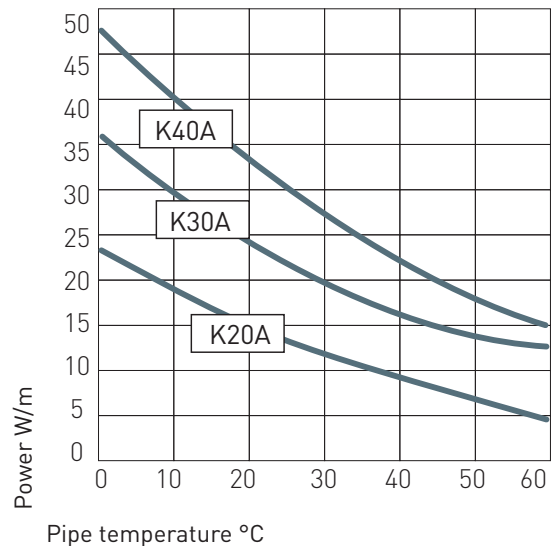
**INSTALLATION**

- The cable can be cut to the desired length;
- The total power depends on the length of the heating cable and the perceived temperature;
- The cable is secured along the pipe with the relevant fixing tape K50 for steel pipes or K50AL for plastic pipes;
- Minimum bending radius: 25 mm;
- Use a C01A, C03A or L03BM1A type thermostat to disconnect the heating cable when the temperature of the fluid is at the desired temperature, thereby minimising energy consumption;
- The cable heats up along its entire length and can be wound in overlapping spirals as it will limit its power at the overlapping points;
- The two conductors must be kept insulated at the end of the cable using the kit to seal the ends code KIT2A and must never be in contact with each other;
- It is advisable to apply an insulating coating over the heating cable.



**ELECTRICAL FEATURES**

Power supply	230V-50Hz
Tolerance	-0/+5 W
Power delivered	<ul style="list-style-type: none"> <li>■ K20A 20 W/m at 10°C</li> <li>■ K30A 30 W/m at 10°C</li> <li>■ K40A 40 W/m at 10°C</li> </ul>



## CALIBRATION OF THE PROTECTION CIRCUIT

CODE	ROOM TEMPERATURE	MAXIMUM CABLE LENGTH		
		16A	20A	32A
Series K20A	-20 °C	105	130	170
	0 °C	150	170	-
	10 °C	170	-	-
Series K30A	-20 °C	75	90	140
	0 °C	97	120	-
	10 °C	115	140	-
Serie K40A	-20 °C	55	70	110
	0 °C	70	90	120
	10 °C	80	100	-

## GENERAL FEATURES

Cable composition	<ul style="list-style-type: none"> <li>■ 1.25 mm<sup>2</sup> conductors</li> <li>■ Self-adjusting conductive core</li> <li>■ Polyolefin insulating sheath</li> <li>■ Braided copper sheath</li> <li>■ Outer sheath in modified polyolefin</li> </ul>
Reel length	K20A25 25 m K20A50 50 m K20A100 100 m K20A500 500 m K30A25 25 m K30A50 50 m K30A100 100 m K40A25 25 m K40A50 50 m K40A100 100 m
Minimum installation room temperature	-35 °C
Maximum room temperature powered	65 °C
Maximum room temperature not powered	80 °C
Minimum storage room temperature	-20 ÷ -25°C
Cable dimensions	12.6 x 4.8 mm series K20A 14.6 x 4.8 mm series K30A-K40A

## ACCESSORIES



### KBE3A

#### JUNCTION BOX IN INSULATING MATERIAL

- Protection rating IP54 with 5 4mm<sup>2</sup> 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.