

Heating Cable High Temperature, Self-regulating



The versatile self-regulating heating cable ELSR-H is for high temperatures up to 210 °C in a large number of industrial applications. It is also suited and approved for use in hazardous areas. The BOT version of this heating cable even withstands aggressive chemicals, oil and fuel and, thanks to this high chemical resistance, stands out for a long life span.

Advantages:

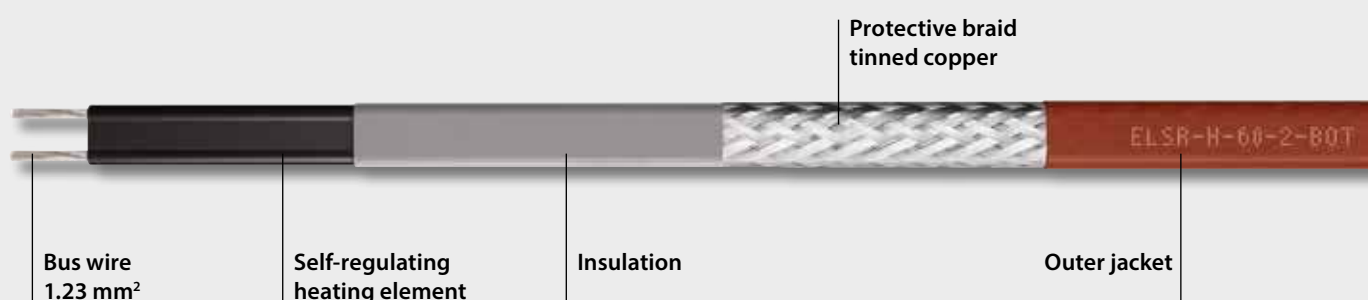
- Up to 120 °C/210 °C
- Self-regulating
- Six nominal outputs
- Can be cut to length off the roll
- Moisture proof
- Resistant to chemicals
- Approved for use in hazardous areas

Applications:

- Chemical & petrochemical industries
- Oil & gas industry
- Power plants
- Ex-areas
- Frost protection
- Water & sanitation utilities
- Temperature maintenance on vessels, pipes & valves



Type ELSR-H up to 210 °C





Technical Information

Data

Outer jacket	TPE-O Fluoropolymer
Bus wire	Nickel plated copper
Maximum exposure temperature (power off)	210 °C
Maximum exposure temperature (power on)	120 °C
Nominal voltage	230 V / (120 V, 277 V)*
Bending radius, min.	25 mm
Installation temperature, min.	-45 °C
Classification system	IBExU II 2G Ex e IIC T3 Gb II 2D Ex tb IIIC TX Db IBExU II 2G Ex e IIC T4...T6 Gb II 2D Ex tb IIIC TX Db (stabilized design)
Classification cable	EPS II 2G Ex e IIC Gb II 2D Ex tb IIIC Db
Certificates	12ATEX1429U IECEX EPS 12.0004U

*upon request

Heating circuit lengths ELSR-H-...-2-BOT on the following conditions:

- 230 V nominal voltage
- Delayed action circuit breakers (C-characteristic) with 80 % maximum load
- Maximum 10 % line voltage drop on the heating cable bus wire
- Power connection to one (1) heater end

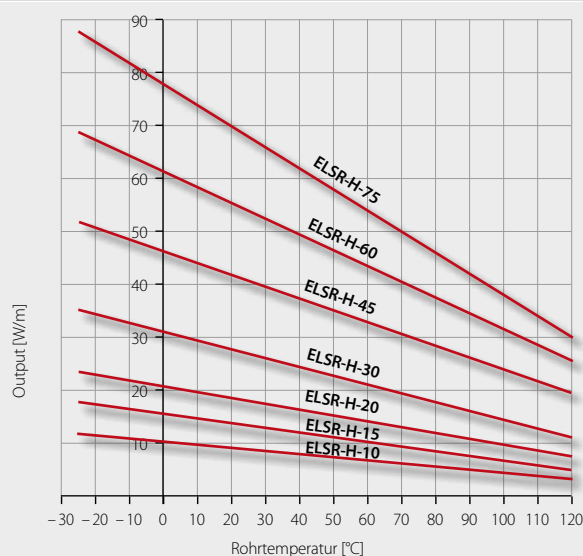
Design

- BOT Protective braid and a fluoropolymer outer jacket

Type ELSR-H up to 210 °C

ELSR-H-...-2-BOT output

(on insulated metallic pipes in accordance with EN 62395-1)



Switch-on temperature	Nominal cutout value (A)	Heating circuit length (m) for ELSR-H-						
		10-2	15-2	20-2	30-2	45-2	60-2	75-2
10	16	193.0	158.0	122.0	82.0	55.0	41.0	33.0
	20	193.0	158.0	136.0	102.0	68.0	51.0	41.5
	25	193.0	158.0	136.0	111.0	85.0	64.0	51.5
	32	193.0	158.0	136.0	111.0	91.0	79.0	66.0
0	16	189.0	153.0	116.0	77.0	52.0	39.0	30.0
	20	189.0	153.0	132.0	97.0	65.0	49.0	37.5
	25	189.0	153.0	132.0	108.0	81.0	61.0	47.0
	32	189.0	153.0	132.0	108.0	88.5	77.0	60.0
-10	16	184.0	146.0	110.0	73.0	50.0	37.0	28.5
	20	184.0	148.5	129.0	92.0	62.0	46.0	35.5
	25	184.0	148.5	129.0	105.5	77.0	58.0	44.5
	32	184.0	148.5	129.0	105.5	86.5	70.0	57.0
-20	16	180.0	139.0	104.0	70.0	47.0	36.0	26.5
	20	180.0	145.0	125.5	87.0	59.0	44.0	33.5
	25	180.0	145.0	125.5	103.0	74.0	56.0	41.5
	32	180.0	145.0	125.5	103.0	84.5	67.0	53.5
-40	16	173.0	126.0	95.0	64.0	43.0	33.0	23.5
	20	173.0	138.0	119.0	80.0	54.0	41.0	29.0
	25	173.0	138.0	120.0	98.0	68.0	51.0	36.5
	32	173.0	138.0	120.0	98.0	81.0	61.0	46.5

Type	Nominal output	Dimensions approx. (mm)	Weight approx. (g/m)	Art. No.
ELSR-H-10-2-BOT	10 W/m at 10 °C	12.4 x 5.0	120	B0221103
ELSR-H-15-2-BOT	15 W/m at 10 °C	12.4 x 5.0	120	B0221153
ELSR-H-20-2-BOT	20 W/m at 10 °C	12.4 x 5.0	120	B0221203
ELSR-H-30-2-BOT	30 W/m at 10 °C	12.4 x 5.0	120	B0221303
ELSR-H-45-2-BOT	45 W/m at 10 °C	12.4 x 5.0	120	B0221453
ELSR-H-60-2-BOT	60 W/m at 10 °C	12.4 x 5.0	120	B0221603
ELSR-H-75-2-BOT	75 W/m at 10 °C	12.4 x 5.0	120	B0221753