

Self-Regulating Trace Heater

High Temperatures to 250° C



This versatile self-regulating heating cable ELSR-SH is designed for high temperatures up to 250 °C in industrial applications. It is also approved for use in hazardous areas and withstands aggressive chemicals, oil and fuel. Thanks to its high chemical resistance, it has a longer life span.

Advantages:

- **Temperature classification T3***
- Self-regulating
- Five nominal outputs from 15 to 90 W/m
- Cut to length off the drum
- Moisture-proof
- Resistant to chemicals
- Approved for use in hazardous areas

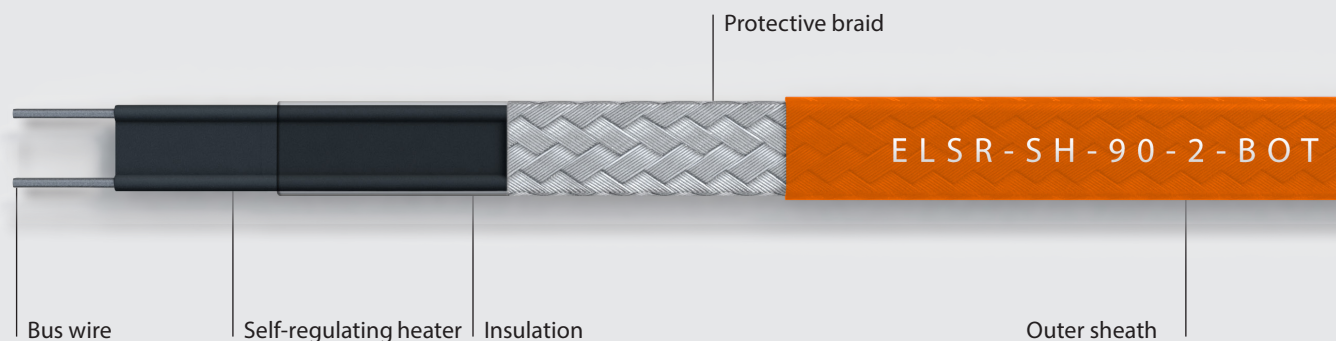
Applications:

- Chemical & petrochemical industries
- Oil & gas industry
- Power plants
- Hazardous areas
- Freeze protection
- Water and sewage facilities
- Temperature maintenance on vessels, pipes & valves

*Except for 90 W/m: T2



Type ELSR-SH to 250° C





Technical Data

Specifications

■ Outer sheath: fluoropolymer	
■ Bus wire: nickel plated copper	
■ Max. process temperature (switched off)	250 °C
■ Max. maintenance temperature (switched on)	165 °C
■ Nominal voltage	230 VAC*
■ Min. bending radius	25 mm
■ Min. installation temperature	-60 °C
■ Temperature classification	
ELSR-SH-90 W/m:	T2
ELSR-SH-15, 35, 45 and 75 W/m:	T3
■ Trace heater classification	II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db
■ System classification	II 2G Ex eb IIC T2 Gb II 2D Ex tb IIIC T210°C Db
■ Certification	IECEX EPS 18.0019U IECEX EPS 18.0014X EPS 18 ATEX 1 028 U EPS 18 ATEX 1 020 X

* Data for 277 VAC on request

Heating Circuits

Switch-On Temperature (°C)	Nominal Cutout Value (A)	Heating Circuit Length (m) für ELSR-SH-				
		15-2 BOT	35-2 BOT	45-2 BOT	75-2 BOT	90-2 BOT
10	10	113	50	36,25	18,75	17
	16	172	80	58	30	27
	20	172	99	72,5	37,5	34
	25	172	107,5	90,625	47	42,5
	32	172	107,5	98	60	54
	40	172	107,5	98	73	68
0	10	106	47	34,5	17,75	16
	16	169	75	55	28,5	26
	20	172	94	69	35,5	32
	25	172	107,5	86,25	44,5	40
	32	172	107,5	98	57	52
	40	172	107,5	98	71	64
-10	10	99	44	32,5	16,5	15,5
	16	159	71	52	26,5	25
	20	172	89	65	33	31
	25	172	107,5	81,25	41,25	38,75
	32	172	107,5	98	53	50
	40	172	107,5	98	66	62
-20	10	94	42	30	15,5	15
	16	150	67	48	25	24
	20	172	84	60	31	30
	25	172	105	75	38,75	37,5
	32	172	107,5	96	50	48
	40	172	107,5	98	62	60
-30	10	89	40	27,5	15	14,5
	16	142,5	64	44	24	23
	20	172	80	55	30	29
	25	172	100	68,75	37,5	36,25
	32	172	107,5	88	48	46
	40	172	107,5	98	60	58
-40	10	84	38	25	14	14
	16	135	61	40	22,5	22
	20	169	76	50	28	28
	25	172	95	62,5	35	35
	32	172	107,5	80	45	44
	40	172	107,5	98	56	56

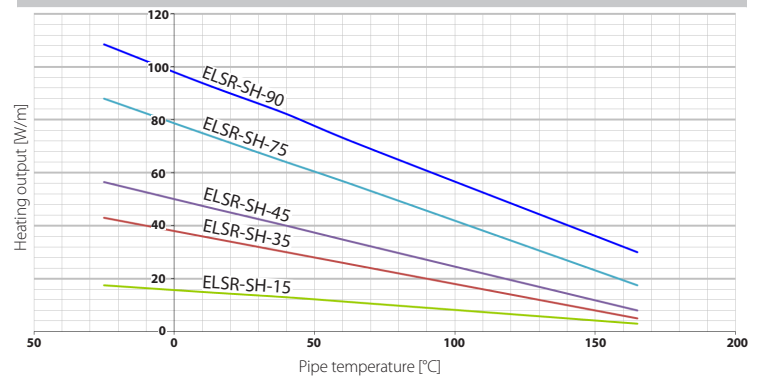
ELSR-SH – 250 °C / T3

Design

- BOT Protective braid and fluoropolymer outer sheath

Output ELSR-SH-...-2-BOT

(on insulated metallic pipes according to 62395-1)



Type	Nominal output	Dimensions approx. (mm)	Weight approx. (g/m)	Part No.
ELSR-SH-15-2-BOT	15 W/m / 10 °C	14 x 5,4	146	B0226153
ELSR-SH-35-2-BOT	35 W/m / 10 °C	14 x 5,4	146	B0226353
ELSR-SH-45-2-BOT	45 W/m / 10 °C	14 x 5,4	146	B0226453
ELSR-SH-75-2-BOT	75 W/m / 10 °C	14 x 5,4	146	B0226753
ELSR-SH-90-2-BOT	90 W/m / 10 °C	14 x 5,4	146	B0226903

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

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

Accessories

Connection and Termination Kits

	Part No.	Description
	OX81PA1	ELVB-SREx-25 Connection kit
	OX81EH2	EL-ECSH-ex Termination kit

Insulation Bushing

	Part No.	Description
	0921031	ELISD-P2 insulation bushing aluminium plate 70x70 mm