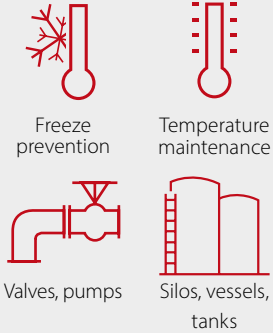


At a Glance

Applications



- › Chemistry and Petrochemistry
- › Oil and Gas Industry
- › Power plants
- › Water and sanitation utilities

Benefits

- › Seven nominal outputs
- › Moisture proof
- › Resistant to chemicals
- › Use in hazardous areas

Designs

BOT Protective braid, Fluoropolymer outer jacket

Approvals



Classification

Class I Div 1, Groups B, C, D; T2B/T6*¹
 Class I Div 2, Groups A, B, C, D; T2B/T6
 Class II Div 1, Groups E, F, G; T2B/T6
 Class II Div 2, Groups E, F, G; T2B/T6
 Class III Div 1, T2B/T6
 Zone 1, AEx 60079-30-1 IIC T6 Gb; T2B/T6
 Zone 1, Ex 60079-30-1 IIC T6 Gb; T2B/T6

Certification

FM24US0046X
 FM24US0047X
 FM24CA0020X
 FM24CA0021X

Standards

IEC/IEEE 60079-30-1
 IEEE 515/CSA 22.2 130-16
 ANSI/UL 60079-30-1

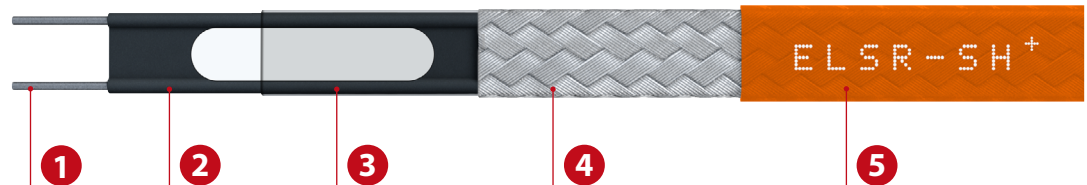
Temperature class T2B to T6*²

*¹with termination kit part no. 09CA051

*²Please note certificate for the respective Temperature Classes of each cable system; ELSR-SH+-20/30-2-BOT only to be used in controlled or stabilized design

ELSR-SH⁺

up to 482 °F (250 °C)



1	Bus wire	Nickel plated copper
2	Self-regulating heating element	
3	Insulation	Fluoropolymer
4	Protection	Protective braid (Cu, nickel plated)
5	Outer jacket	Fluoropolymer

Checklist ELSR-SH⁺

Power Connection & End Termination

EL-HAZELECT®	Heater entry kit for Div1 rated junction box, 3/4" NPT, for ELSR-SH+, Division 1 rated	09CA051
ELVB-SREx-SH+-20®	Power Connection Kit for ELSR-SH+ with nickel plated cable gland, M20x1,5, for classified locations, Ex d e	09CA070
ELVB-SREx-SH+-3/4"®	Power Connection Kit for ELSR-SH+ with nickel plated cable gland, 3/4" NPT, for classified locations, Ex d e	09CA071
ELVB-SREx-SH+-1/2"®	Power Connection Kit for ELSR-SH+ with nickel plated cable gland, 1/2" NPT, for classified locations, Ex d e	09CA072
EL-ECSH-ex®	Silicone termination cap for ELSR-SH+, red, cold assembly	09CA024

® Please note the certificate

Technical Information

Max. continuous exposure temperature (power on)	365 °F (185 °C)
Max. continuous exposure temperature (power off)	482 °F (250 °C)
Nominal voltage	120 VAC (ELSR-SH+-XX-1-BOT) 230 VAC / 277 VAC (ELSR-SH+-XX-2-BOT)
Min. Bending radius	1" (25 mm)
Min. Installation temperature	-76 °F (-60 °C)
Usage rating	Wet rated, for outdoor use (-WS)

Heating Circuit Length

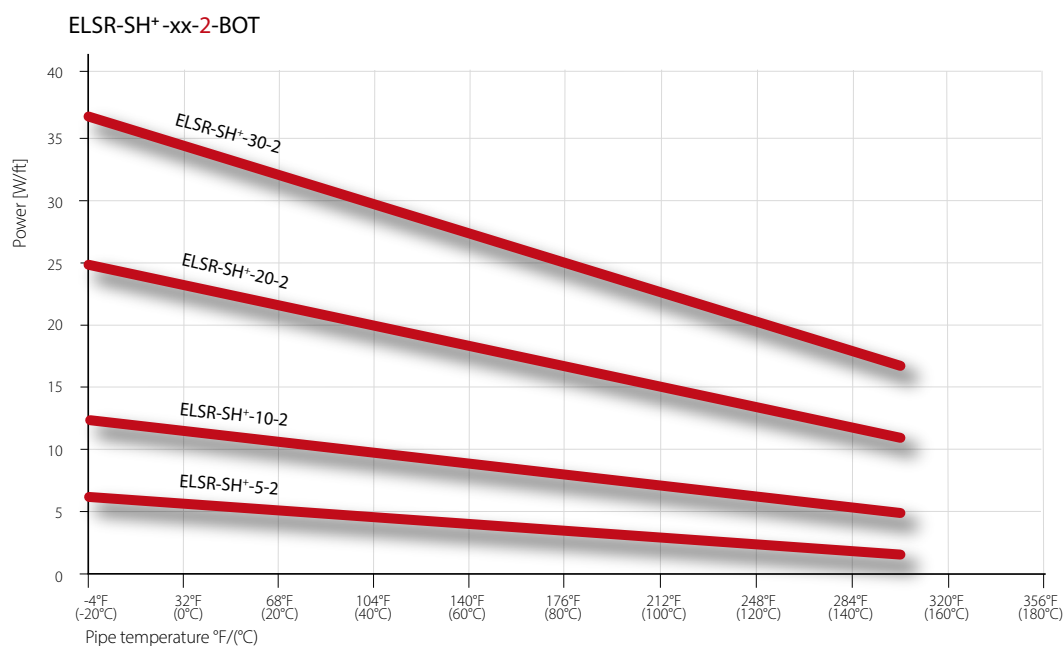
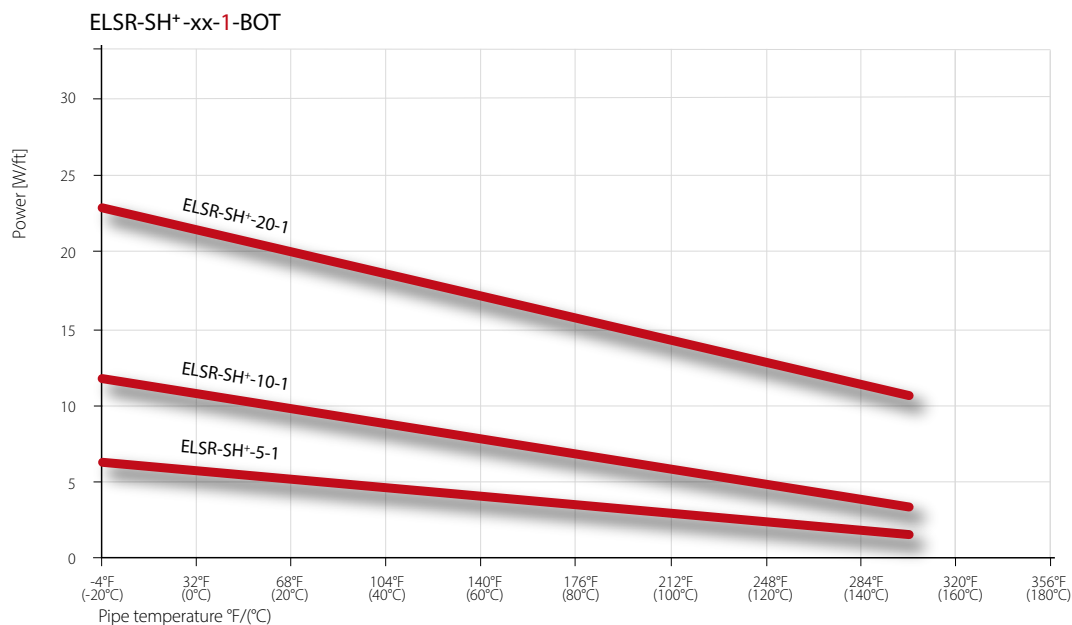
Switch on temperature [°F/°C]	Nominal fuse rating [A]	Heating circuit length* ¹ [ft]						
		ELSR-SH+ -5-2-BOT	ELSR-SH+ -10-2-BOT	ELSR-SH+ -20-2-BOT	ELSR-SH+ -30-2-BOT	ELSR-SH+ -5-1-BOT	ELSR-SH+ -10-1-BOT	ELSR-SH+ -20-1-BOT
50 °F (10 °C)	10	330	164	89	39	153	87	39
	15	492	248	131	59	228	131	61
	20	492	330	176	79	238	176	80
	25	492	353	220	98	238	177	100
	30	492	353	254	118	238	177	118
	35	492	353	254	138	238	177	118
	40	492	353	254	157	238	177	118
32 °F (0 °C)	10	312	157	84	38	144	84	38
	15	468	236	126	57	217	125	57
	20	489	315	169	75	236	167	77
	25	489	351	210	95	236	177	95
	30	489	351	253	113	236	177	115
	35	489	351	254	133	236	177	118
	40	489	351	254	151	236	177	118
14 °F (-10 °C)	10	297	151	80	36	138	79	36
	15	445	226	121	54	207	120	56
	20	484	300	161	72	235	159	74
	25	484	351	202	90	235	176	92
	30	484	351	243	108	235	176	110
	35	484	351	253	126	235	176	118
	40	484	351	253	144	235	176	118
-22 °F (-30 °C)	10	271	138	74	33	126	72	34
	15	405	208	112	51	189	110	51
	20	479	277	149	67	231	146	67
	25	479	346	187	84	231	174	85
	30	479	348	223	100	231	174	102
	35	479	348	251	118	231	174	116
	40	479	348	251	135	231	174	116

*¹ Heating circuit lengths on the following conditions

- 230 VAC (Type BA310XX3), 120 VAC (Type BA310XX1)
- Delayed action circuit breakers (type QO) with 80 % max. load

- Maximum 10 % line voltage drop on heating cable bus wire
- Power connection to one heater end

Power Output ELSR-SH⁺ (on insulated metallic pipes in accordance with IEEE 515/CSA 22.2 130-16)



Ordering Information

Type	Nominal output [@ 50°F / @120V;230V]	WxH approx. [mm]	Weight approx. [g/ft]	Article - N°.
ELSR-SH ⁺ -5-1-BOT	5 W/ft	14.0 x 5.5	46	BA310151
ELSR-SH ⁺ -10-1-BOT	10 W/ft	14.0 x 5.5	46	BA310301
ELSR-SH ⁺ -20-1-BOT	20 W/ft	14.0 x 5.5	46	BA310601
ELSR-SH ⁺ -5-2-BOT	5 W/ft	14.0 x 5.5	46	BA310153
ELSR-SH ⁺ -10-2-BOT	10 W/ft	14.0 x 5.5	46	BA310303
ELSR-SH ⁺ -20-2-BOT	20 W/ft	14.0 x 5.5	46	BA310603
ELSR-SH ⁺ -30-2-BOT	30 W/ft	14.0 x 5.5	46	BA310903