

SRW

Self-Regulating Heating Cable

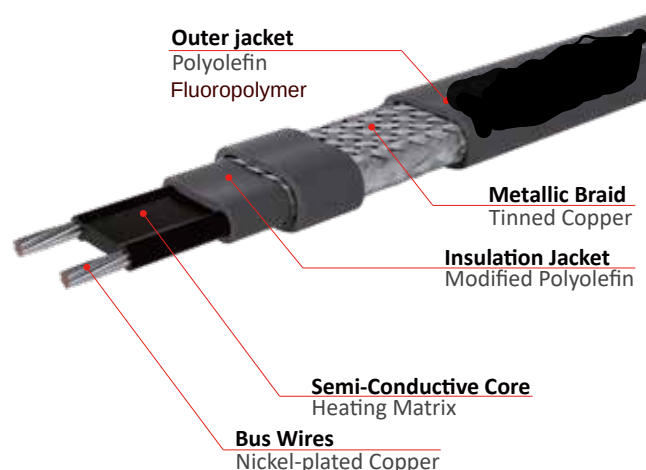
Product Description

The CANSTAL SRW Self-Regulating Heating Cable is designed for freeze protection and process temperature maintenance of metal and non-metal pipes and vessels and equipment.

The unique PTC feature of SRW self-regulating core elements adjust its heat output in response to the surrounding temperature along the entire circuit, delivering more heat where and when required.

This self-regulating feature also serves to prevent overheating, even in cases where SRW cables overlap. Another benefit of the cable is the ability to cut to length in the field, completed with CANSTAL system connection kits for quick and convenient installations.

SRW heating cable system is certified for ordinary and hazardous areas with maximum maintain temperature of 150°F (65°C) and intermittent exposure temperature of 185°F (85°C). Use of CANSTAL connection kits for SRW installation is required to comply with system approval, ensuring safe operation and reliable thermal performance.



Specification

Max. Intermittent Exposure Temp.	185°F (85°C)
Max. Maintain or Continuous Exposure Temp.	150°F (65°C)
Supply Voltage	100-120V or 200-277VAC
Output Wattage	3, 5, 8, 10W/ft @50°F on pipe (10, 16, 26, 33W/m @10°C on pipe)
Bus wire	16 AWG
Min. Bending Radius	0.75" (19mm) @5°F (-15°C) / 1.60" (40mm) @-40°F (-40°C)
Min. Installation Temperature	-50°C (*-15 °C when installing connection kits)
Min. Start-up Temperature	-40°C
Maximum Circuit Breaker Size	40A

Ordering Information

SRWa-b-c

SRW = Model Name

a = 3, 5, 8, 10 W/ft
(5, 7 W/ft for -PL models)

b = Voltage, 1 = 100-120V , 2 = 200-277V

c = -PL for preassembled model

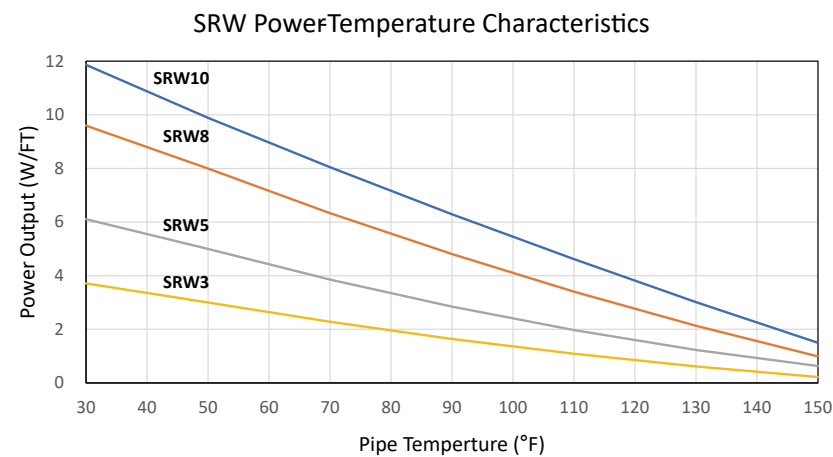
Connection Kits

CANSTAL offers two types of system for SRW heating cable.

Field-assembled system requires components such as power connections, splice or tee connections and end terminations to ensure proper functioning and comply with warranty and approvals requirements.

Pre-assembled (factory-assembled) system provides already installed power splice and end seal for easier installation and safe operation

Nominal Power Output Ratings on Insulated Metal Pipes at 120/240 V



Circuit length adjustment factor

Voltage	SRW3-2	SRW5-2	SRW8-2	SRW10-2
208V	0.969	0.957	0.925	0.920
240V	1.000	1.000	1.000	1.000
277V	1.054	1.065	1.088	1.120

Power adjustment factor

Voltage	SRW3-2	SRW5-2	SRW8-2	SRW10-2
208V	0.800	0.820	0.880	0.910
240V	1.000	1.000	1.000	1.000
277V	1.190	1.170	1.120	1.100

- [Note]
- Thermal outputs above are tested in accordance with IEEE 515, with each model on a metallic pipe insulated with a fiberglass insulation.
 - For plastic pipe installations, the power output will be derated by 35% and use aluminum tape install method

Max. Circuit Length based on Circuit Breaker Selection

Catalog Number	Start-Up Temperature °F (°C)	Maximum Circuit Length per Circuit Breaker, feet (meters)							
		120V				240V			
		15A	20A	30A	40A	15A	20A	30A	40A
SRW3	50 (10)	327 (99)	377 (115)	377 (115)	377 (115)	654 (199)	732 (223)	732 (223)	732 (223)
	32 (0)	262 (80)	350 (106)	377 (115)	377 (115)	525 (160)	700 (213)	732 (223)	732 (223)
	0 (-18)	200 (60)	266 (81)	377 (115)	377 (115)	400 (121)	533 (162)	732 (223)	732 (223)
	-20 (-29)	173 (52)	231 (70)	346 (105)	377 (115)	346 (105)	461 (140)	692 (210)	732 (223)
	-40 (-40)	152 (46)	203 (61)	305 (92)	377 (115)	305 (92)	406 (123)	610 (185)	732 (223)
SRW5	50 (10)	200 (60)	267 (81)	302 (92)	302 (92)	400 (121)	533 (162)	604 (184)	604 (184)
	32 (0)	166 (50)	222 (67)	302 (92)	302 (92)	333 (101)	444 (135)	604 (184)	604 (184)
	0 (-18)	126 (38)	168 (51)	252 (76)	302 (92)	252 (76)	336 (102)	504 (153)	604 (184)
	-20 (-29)	110 (33)	146 (44)	220 (66)	293 (89)	220 (66)	293 (89)	439 (133)	586 (178)
	-40 (-40)	97(29)	130 (39)	195 (59)	259 (79)	195 (59)	259 (79)	389 (118)	519 (158)
SRW8	50 (10)	154 (46)	205 (62)	243 (74)	243 (74)	307 (93)	409 (124)	482 (147)	482 (147)
	32 (0)	131 (40)	175 (53)	243 (74)	243 (74)	262 (80)	350 (106)	482 (147)	482 (147)
	0 (-18)	104 (31)	138 (42)	207 (63)	243 (74)	207 (63)	276 (84)	415 (126)	482 (147)
	-20 (-29)	92 (27)	122 (37)	184 (55)	243 (74)	184 (55)	245 (74)	367 (111)	482 (147)
	-40 (-40)	82 (25)	110 (33)	165 (50)	219 (66)	165 (50)	219 (66)	329 (100)	439 (133)
SRW10	50 (10)	125 (38)	167 (50)	207 (63)	207 (63)	250 (76)	334 (101)	410 (125)	410 (125)
	32 (0)	110 (33)	146 (44)	207 (63)	207 (63)	220 (66)	293 (89)	410 (125)	410 (125)
	0 (-18)	90 (27)	120 (36)	179 (54)	207 (63)	179 (54)	239 (72)	359 (109)	410 (125)
	-20 (-29)	81 (24)	107 (32)	161 (49)	207 (63)	161 (49)	215 (65)	322 (98)	410 (125)
	-40 (-40)	73(22)	97 (29)	146 (44)	195 (59)	146 (44)	195(59)	292 (89)	390 (118)

- [Note]
- The circuit lengths are based on trip current characteristics of Type QO and Type QCB devices. For devices with different trip characteristics please consult CANSTAL.
 - Use local electrical codes to select appropriate branch circuit breakers.
 - The total length of heating cables connected to the circuit breaker is the sum of all cables that have been spliced or interconnected in parallel. Ensure that the total length do not exceed the maximum circuit length as indicated above.
 - Ground fault protection of equipment is required for heat tracing branch circuits with typical trip level of 30mA. Thermal magnetic breakers are recommended to reduce nuisance tripping.
 - It is recommended to start up the circuits at higher temperatures, when possible, to avoid large start-up or in-rush current which may trip the circuit breaker.

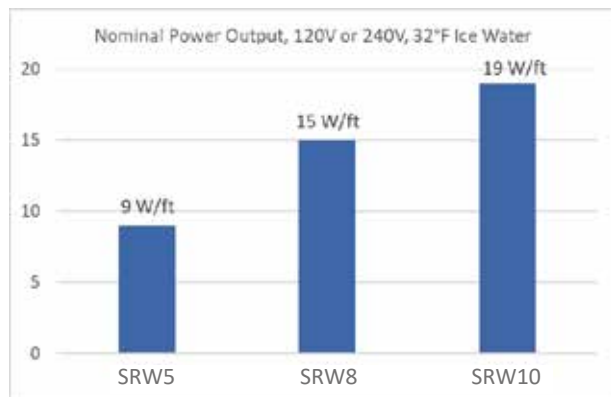
* Technical Information Subject to change without notification.

SRW Self-Regulating Heating Cable

Roof & Gutter Deicing

SRW is also designed for roof and gutter de-icing applications in ordinary locations. Cut-to length spools with system components allow easy and safe installation on site. Pre-assembled products are also available upon request. Factory-assembled with power splice and end seal, plug-in power cord allows instant operation.

Nominal Power Output Ratings on Insulated Metal Pipes at 120/240 V



Circuit length adjustment factor

Voltage	SRW3-2	SRW5-2	SRW8-2	SRW10-2
208V	0.969	0.957	0.925	0.920
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Power adjustment factor

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Max. Circuit Length based on Circuit Breaker Selection

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		120V				240V			
		15A	20A	30A	40A	15A	20A	30A	40A
SRW5	32 (0) ice	100 (30)	133 (40)	200 (60)	213 (64)	200 (60)	266 (81)	400 (121)	410 (124)
	0 (-18) ice	76 (23)	101 (30)	152 (46)	203 (61)	152 (46)	203 (61)	304 (92)	410 (124)
SRW8	32 (0) ice	73 (22)	96 (29)	146 (44)	167 (50)	145 (44)	193 (58)	297 (90)	341 (103)
	0 (-18) ice	53 (16)	70 (21)	104 (31)	140 (42)	104 (31)	139 (42)	208 (63)	283 (86)
SRW10	32 (0) ice	62 (18)	83 (25)	125 (38)	150 (45)	125 (38)	166 (50)	250 (76)	301 (91)
	0 (-18) ice	50 (15)	67 (20)	101 (30)	134 (40)	101 (30)	135 (41)	202 (61)	269 (81)

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