

### PRODUCT CODES

SR-Wattage-Voltage-Length // eg: SR-5W-1-250

### PRODUCT DESCRIPTION

Warmup NAMSR cable is suited to prevent liquids in metal and plastic pipes and ducts to freeze and clog up. It is regularly used in large residential and commercial construction for sprinkler lines, sewer pipes and A/C drains. Warmup cables are approved for dry and wet locations and suitable in the classes listed below.

NAMSR Cable is constructed of a self-regulating polymer core that varies its output along its entire length, saving energy and eliminating hot spots along the pipe. Parallel construction makes it easier to install than series types of cable since it can be cut to length at any point on the pipe. It can be overlapped without overheating the cable.

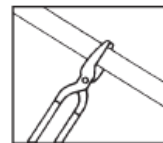
### ADVANTAGES

- Self Regulating, Energy Efficient
- Customize in Field / Cut-to-Length
- 16 Ga Nickel-Plated Copper Buss Wires
- Flame retardant thermoplastic outer jacket
- Max Continuous Exposure Temp: 150°F
- Min installation Temp -40°F

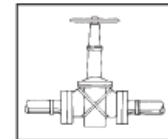
### CLASSES

Ordinary Areas	Applications	SR-UJ	SR	SR-P
Roof and Gutter			✓	
Pipe Protection Indoors		✓	✓	
Pipe Protection Outdoors			✓	
Class I Div 1	Gasses and Vapors		B, C, D	✓
Class I Div 2			✓	A, B, C, D
Class II Div 1	Combustible dust		F, G	
Class II Div 2			✓	E, F, G
Class III Div 2	Ignitable Fibers		✓	T3

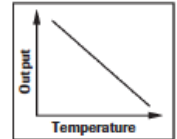
### Approvals



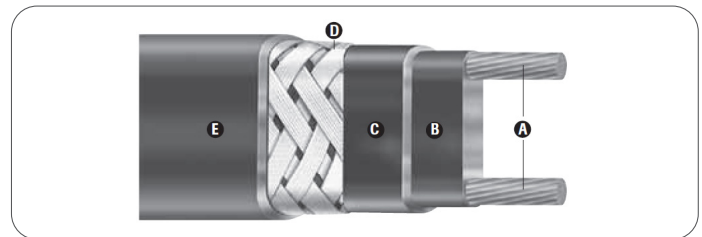
Cut to Any Length in Field



Can be Single Overlapped



Self Regulating



### CONSTRUCTION

#### A. Buss Wires

Twin 16 AWG copper buss wires provide good current capability.

#### B. Matrix

A semiconductive polymer core whose electrical resistance varies with temperature. When process temperature drops, the core's heat output increases; conversely, as process temperature rises, heat output decreases.

#### C. Jacket

The flame retardant insulation jacket is a thermoplastic rubber material with excellent water resistance. It resists certain mildly corrosive chemicals.

#### D. Tinned Copper Braid

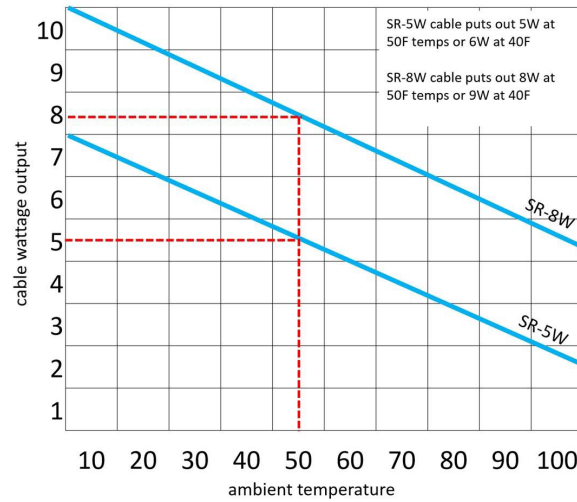
The braid covering the jacket provides an effective ground path and mechanical protection.

#### E. Overjacket

The Thermoplastic overcoat protects the braid, and is UV resistant.

### OUTPUT GRAPH

Output is determined per IEEE-515-2011 Standard



### VOLTAGE ADJUSTMENTS

	POWER OUTPUT		CIRCUIT LENGTH	
	208V	277V	208V	277V
SR-5W	.85	1.12	.94	1.09
SR-8W	.89	1.08	.92	1.11

### MAX CIRCUIT LENGTHS

	AMBIENT TEMPERATURE AT START-UP		120V				240V			
			15A	20A	30A	40A	15A	20A	30A	40A
SR-5W	50°F	10°C	230	270	270	270	460	540	540	540
	32°F	0°C	230	270	270	270	460	540	540	540
	14°F	-10°C	180	210	270	270	360	420	540	540
	0°F	-18°C	140	190	270	270	285	380	540	540
	-20°F	-29°C	125	165	250	270	250	330	500	540
	-40°F	-40°C	110	145	220	270	220	295	440	540
SR-8W	50°F	10°C	150	200	210	210	300	400	420	420
	32°F	0°C	150	200	210	210	300	400	420	420
	14°F	-10°C	140	150	205	210	280	300	410	420
	0°F	-18°C	100	130	200	210	200	265	400	420
	-20°F	-29°C	85	115	175	210	175	235	350	420
	-40°F	-40°C	80	105	155	210	155	210	315	420

Chart below applies to metal pipes. Where different, "SR-xx\*" shows selection for plastic pipes.

		Minimum ambient temperature					
		0°	-10°	-20°	-30°	-40°	
Insulation thickness (in.)	1.00" pipe	0.5	NAMSR-3W x 1 NAMSR-5W x 1*	NAMSR-5W x 1	NAMSR-3W x 1	NAMSR-5W x 1 NAMSR-8W x 1*	NAMSR-8W x 1
		1.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W x 1	NAMSR-5W x 1
		1.5	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1 NAMSR-5W x 1*
		2.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1
		3.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1
		2.00" pipe	0.5	NAMSR-5W x 1 NAMSR-8W x 1*	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1 NAMSR-5W x 2*
	1.0	NAMSR-3W x 1 NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1 NAMSR-8W x 1*	NAMSR-8W x 1	
	1.5	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1	
	2.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W x 1	NAMSR-5W x 1	
	3.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1 NAMSR-5W x 1*	
	4.00" pipe	0.5	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3
	1.0	NAMSR-5W x 1 NAMSR-8W x 1*	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1 NAMSR-5W x 2*	NAMSR-5W x 2 NAMSR-8W x 2*	
	1.5	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1	
	2.0	NAMSR-3W x 1 NAMSR-5W x 1*	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1 NAMSR-8W x 1*	NAMSR-8W x 1	
	3.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1	
10.00" pipe	1.0	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2 NAMSR-8W x 3*	NAMSR-8W x 3	NAMSR-8W x 3	
1.5	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2		
2.0	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-5W x 2 NAMSR-8W x 2*	NAMSR-8W x 2		
3.0	NAMSR-5W x 1	NAMSR-5W x 1 NAMSR-8W x 1*	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1 NAMSR-5W x 2*		

\*for plastic pipes

### PRODUCT SIZE LISTING

	Code	Description	Canada	USA
120V	SR-5W-1-250	Self-Regulated 16GA Cable, 120V, 5W/linear foot. Sold in 250' length spools.	\$2,033.00	\$1,767.50
	SR-5W-1-500	Self-Regulated 16GA Cable, 120V, 5W/linear foot. Sold in 500' length spools.	\$4,417.50	\$3,534.00
	SR-5W-1-1000	Self-Regulated 16GA Cable, 120V, 5W/linear foot. Sold in 1000' length spools.	\$8,129.00	\$7,068.50
	SR-8W-1-250	Self-Regulated 16GA Cable, 120V, 8W/linear foot. Sold in 250' length spools.	\$ 2,093.00	\$1,819.50
	SR-8W-1-500	Self-Regulated 16GA Cable, 120V, 8W/linear foot. Sold in 500' length spools.	\$4,417.50	\$3,534.00
	SR-8W-1-1000	Self-Regulated 16GA Cable, 120V, 8W/linear foot. Sold in 1000' length spools.	\$8,368.00	\$7,276.00
240V	SR-5W-2-250	Self-Regulated 16GA Cable, 240V, 5W/linear foot. Sold in 250' length spools.	\$2,208.75	\$1,767.00
	SR-5W-2-500	Self-Regulated 16GA Cable, 240V, 5W/linear foot. Sold in 500' length spools.	\$4,417.50	\$3,534.00
	SR-5W-2-1000	Self-Regulated 16GA Cable, 240V, 5W/linear foot. Sold in 1000' length spools.	\$8,368.00	\$7,068.00
	SR-8W-2-250	Self-Regulated 16GA Cable, 240V, 8W/linear foot. Sold in 250' length spools.	\$2,093.00	\$1,819.50
	SR-8W-2-500	Self-Regulated 16GA Cable, 240V, 8W/linear foot. Sold in 500' length spools.	\$4,417.50	\$3,534.00
	SR-8W-2-1000	Self-Regulated 16GA Cable, 240V, 8W/linear foot. Sold in 1000' length spools.	\$9,095.00	\$7,276.00
120V	SR-K6FT	Self Regulating Kit with Plug, 6ft	\$91.00	\$79.00
	SR-K12FT	Self Regulating Kit with Plug, 12ft	\$132.00	\$105.00
	SR-K18FT	Self Regulating Kit with Plug, 18ft	\$162.00	\$129.50
	SR-K24FT	Self Regulating Kit with Plug, 24ft	\$178.00	\$154.50
	SR-K50FT	Self Regulating Kit with Plug, 50ft	\$339.00	\$271.00
	SR-K75FT	Self Regulating Kit with Plug, 75ft	\$420.00	\$365.00
	SR-K100FT	Self Regulating Kit with Plug, 100ft	\$511.00	\$444.00

### ACCESSORIES

Warmup has a complete line of accessories specifically designed for use with NAMSR cable. Use only Warmup accessories to ensure the performance of the heat trace system.

Code	Description	Canada	USA
TAPE-AL	Aluminum Foil Tape for Self-Regulating Cable. Sold in 90ft roll.	\$27.00	\$21.00
SR-LBL	Pack of 10 warning lables	\$26.06	\$20.85
NAMSR-ZT-100	Bag of 100 Heavy Duty Zip Ties. 7" long. For use with WSM, WODH and NAMSR cable series. 50lbs load bearing capacity.	\$24.00	\$19.00
POWER-KIT	Power Connection Kit for Self-Regulating Cable. Includes 2*warning labels and 1*END-KIT.	\$87.00	\$69.00
SPLICE-KIT	Splice/Tee Kit for Self-Regulating Cable.	\$57.00	\$45.00
END-KIT	End Seal Kit for Self-Regulating Cable.	\$29.00	\$22.50
SPEEDFIT-BOX	Power connection junction box (6x6x3) with Pipe-Mounting Bracket for Self-Reg connections.	\$275.00	\$220.50
SPEEDFIT-SPLICE	In-line splicing box for fast and weathertight connections in the field.	\$87.00	\$69.00
SPEEDFIT-TEE	3-Way T-splice box for fast and weathertight connections in the field.	\$94.00	\$75.00
SPEEDFIT-PRO	Non-Strip field connection box	\$465.31	\$372.25
JHE-L-GET	Lit end cap for self regulating cable	\$23.00	\$29.90

### WARRANTY & MAINTENANCE

The NAMSR cable is warrantied for 10 years against manufacturer's defects. See [www.warmup.com](http://www.warmup.com) for full warranty details.

### TECHNICAL SUPPORT

Warmup is available 24/7/365 at (888) 927-6333 (US) (888) 592-7687 (CAN)

### RELATED PRODUCTS

- TRF115-005 - LINE VOLTAGE THERMOSTAT - see WSC-0801
- DS series controls (ASE-DS8) - see WSC-0809
- ROOF & GUTTER APPLICATIONS - see WSC-0929