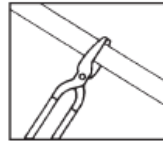
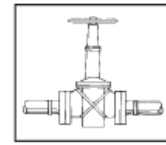


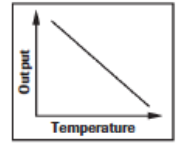
- Self-Regulating, Energy Efficient
- Cost Effective for Contractor/Construction
- Freeze Protection Application
- Industrial Grade, 16 AWG Buss Wire
- Standard Braid with Overjacket
- Circuit Lengths to 460 Feet
- 3, 5 and 8 Watts per Foot
- 120, 208-277 Volts Available From Stock



Cut to Any Length in Field



Can be Single Overlapped

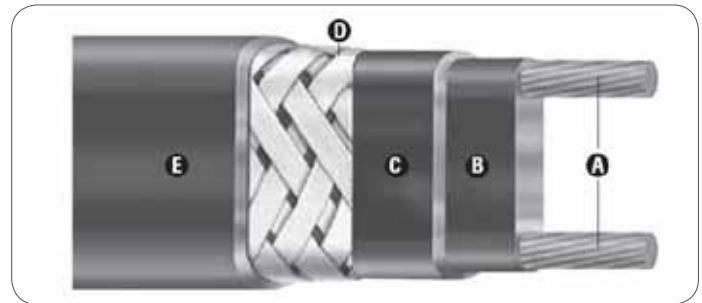


Self Regulating

Description

Warmup NAMSR cable is ideal for keeping metal and plastic pipes warm in commercial construction, institutional buildings and some industrial freeze protection applications.

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 zone or series types of cable since it can be cut to length at any point on the pipe. It can be single overlapped without overheating the cable.



Applications

- Commercial Construction
 - Cooling Towers
 - Chilled Water and Plumbing Pipes
 - Sump Discharge Pipes
 - Exposed P-traps
- Industrial
 - Water Treatment Facilities
 - Vessel Freeze Protection
 - Safety Shower Lines

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 TPR overcoat protects the braid, and provides resistance to water and certain inorganic chemical solutions.



Approvals

- UL Listed for use in ordinary areas

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Heating Cable Selection Guide (cont'd)

4. Determine Circuits/Circuit Protection

Circuit protection depends on the breaker size being used and the start-up temperature. The National Electric Code (NEC 1999) requires the use of ground fault protection breakers for heating cable. The following chart shows the maximum circuit length for a given breaker rating. To determine the number of circuits required for each pipe, divide the total cable (circuit) length found in Step 3 by the maximum circuit length found in the chart. Round up to the next higher number.

$$\text{Number of Circuits} = \frac{\text{Heater Length}}{\text{Maximum Circuit Length}}$$

Maximum Circuit Lengths (Ft.)

Circuit breaker Cable rating	40° F Start-up			0° F Start-up		
	20 Amp	30 Amp	40 Amp	20 Amp	30 Amp	40 Amp
NAMSR-3W-120V	350	360	N/R	270	360	N/R
NAMSR-3W-240V	660	N/R	N/R	555	660	N/R
NAMSR-5W-120V	230	270	N/R	180	270	N/R
NAMSR-5W-120V	450	540	N/R	360	540	N/R
NAMSR-5W-120V	180	215	N/R	145	215	N/R
NAMSR-5W-120V	330	420	420	265	395	420

N/R = Not Required. Maximum circuit length has been reached in a smaller breaker size.

Example: Using 20 Amp circuit breakers, how many circuits are needed for the 322 foot circuit shown in Step 3 in a 40°F start-up environment?
 From the chart: NAMSR-5W-120V maximum circuit length is 180 feet.
 Number of circuits = $\frac{322 \text{ feet}}{180 \text{ feet}}$
 = 2 Circuits

NAMSR Cable Selection Chart

- Selections suitable for 120V and 208-277V applications.
- Design based on straight runs of cable or pipe. Spiralling is not required.
- Heat loss is based on 40°F maintenance temperature and fiberglass insulation K = 0.25 at 50°F
- Non-metallic pipe heat losses are based on using NAM-TAPE aluminum tape for improving heat transfer. All our products are designated for a ground path for non-metallic pipe applications.
- Only 3 W/Ft. rating is UL Listed for non-metallic pipe applications.

Each cell specifies cable rating and # of runs for both metal and plastic pipes (unless specified).

Minimum ambient temperature

		0°	-10°	-20°	-30°	-40°
0.50" pipe	0.5	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W x 1	NAMSR-5W x 1
	1.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1
	1.5	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W 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-3W x 1	NAMSR-3W x 1
	3.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W x 1	NAMSR-5W x 1
0.75" pipe	0.5	NAMSR-3W x 1	NAMSR-3W x 1 <i>NAMSR-5W x 1*</i>	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1
	1.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1 <i>NAMSR-5W x 1*</i>
	1.5	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W 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
1.00" pipe	0.5	NAMSR-3W x 1 <i>NAMSR-5W x 1*</i>	NAMSR-5W x 1	NAMSR-3W x 1	NAMSR-5W x 1 <i>NAMSR-8W x 1*</i>	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 <i>NAMSR-5W x 1*</i>
	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
1.25" pipe	0.5	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1 <i>NAMSR-8W x 1*</i>	NAMSR-8W x 1	NAMSR-8W x 1
	1.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W 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 <i>NAMSR-5W x 1*</i>	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

*for plastic pipes

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Minimum ambient temperature

		0°	-10°	-20°	-30°	-40°
1.50" pipe	0.5	NAMSR-5W x 1	NAMSR-5W x 1 <i>NAMSR-8W x 1*</i>	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1
	1.0	NAMSR-3W x 1	NAMSR-3W x 1 <i>NAMSR-5W x 1*</i>	NAMSR-5W 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-5W 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 <i>NAMSR-8W x 1*</i>	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1 <i>NAMSR-5W x 2*</i>	NAMSR-5W x 2 <i>NAMSR-8W x 2*</i>
	1.0	NAMSR-3W x 1 <i>NAMSR-5W x 1</i>	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1 <i>NAMSR-8W x 1*</i>	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 <i>NAMSR-5W x 1*</i>
2.50" pipe	0.5	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-5W x 2 <i>NAMSR-8W x 2*</i>	NAMSR-8W x 2
	1.0	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1 <i>NAMSR-8W x 1*</i>	NAMSR-8W x 1	NAMSR-8W x 1
	1.5	NAMSR-3W x 1	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1 <i>NAMSR-8W x 1*</i>
	2.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W 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 <i>NAMSR-5W x 1*</i>	NAMSR-5W x 1
3.00" pipe	0.5	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-5W x 2 <i>NAMSR-8W x 2*</i>	NAMSR-8W x 2	NAMSR-8W x 2
	1.0	NAMSR-5W x 1	NAMSR-5W x 1 <i>NAMSR-8W x 1*</i>	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1
	1.5	NAMSR-3W x 1 <i>NAMSR-5W x 1*</i>	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1 <i>NAMSR-8W x 1*</i>	NAMSR-8W x 1
	2.0	NAMSR-3W x 1	NAMSR-3W x 1 <i>NAMSR-5W x 1*</i>	NAMSR-5W 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-5W x 1	NAMSR-5W x 1

*for plastic pipes

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www.warmup.com

Minimum ambient temperature

Insulation thickness (in.)	Pipe size	Minimum ambient temperature				
		0°	-10°	-20°	-30°	-40°
3.50"	0.5	NAMSR-8W x 1 NAMSR-5W x 2 ^{*†}	NAMSR-5W x 2 NAMSR-8W x 2 ^{*†}	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2 NAMSR-8W x 3 ^{*†}
		NAMSR-5W x 1	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-5W x 2
	1.0	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-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1 NAMSR-8W x 1 ^{*†}
	2.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-3W x 1 NAMSR-5W x 1 ^{*†}	NAMSR-5W x 1	NAMSR-5W x 1
4.00"	0.5	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3
		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 ^{*†}
	1.0	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1
	1.5	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
	2.0	NAMSR-3W x 1	NAMSR-3W x 1	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-5W x 1
5.00"	0.5	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2 NAMSR-8W x 3 ^{*†}	NAMSR-8W x 3	NAMSR-8W x 3
		NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-5W x 2 NAMSR-8W x 2 ^{*†}	NAMSR-8W x 2
	1.0	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 1 ^{*†}
	1.5	NAMSR-5W x 1	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 ^{*†}
6.00"	0.5	NAMSR-8W x 2	NAMSR-8W x 2 NAMSR-8W x 3 ^{*†}	NAMSR-8W x 3	NAMSR-8W x 3	NAMSR-8W x 3 NAMSR-8W x 4 ^{*†}
		NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-5W x 2 NAMSR-8W x 2 ^{*†}	NAMSR-8W x 2	NAMSR-8W x 2
	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-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	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

*for plastic pipes

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Minimum ambient temperature

Insulation thickness (in.)

8.00" pipe	0°	-10°	-20°	-30°	-40°
1.0	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3
1.5	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2
2.0	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*
3.0	NAMSR-5W x 1	NAMSR-5W x 1	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1

10.00" pipe	0°	-10°	-20°	-30°	-40°
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*

12.00" pipe	0°	-10°	-20°	-30°	-40°
1.0	NAMSR-8W x 2	NAMSR-8W x 2 NAMSR-8W x 3*	NAMSR-8W x 3	NAMSR-8W x 3	NAMSR-8W x 3 NAMSR-8W x 4*
1.5	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3
2.0	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-5W x 2 NAMSR-8W x 2*	NAMSR-8W x 2	NAMSR-8W x 2
3.0	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*

14.00" pipe	0°	-10°	-20°	-30°	-40°
1.0	NAMSR-8W x 2	NAMSR-8W x 3	NAMSR-8W x 3	NAMSR-8W x 4	NAMSR-8W x 4
1.5	NAMSR-5W x 2 NAMSR-8W x 2*	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3	NAMSR-8W x 3
2.0	NAMSR-8W x 1 NAMSR-5W x 2*	NAMSR-5W x 2 NAMSR-8W x 2*	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2 NAMSR-8W x 3*
3.0	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-8W x 1 NAMSR-5W x 2*	NAMSR-5W x 2 NAMSR-8W x 2*	NAMSR-8W x 2

16.00" pipe	0°	-10°	-20°	-30°	-40°
1.0	NAMSR-8W x 2 NAMSR-8W x 3*	NAMSR-8W x 3	NAMSR-8W x 3 NAMSR-8W x 4*	NAMSR-8W x 4	NAMSR-8W x 4 n/a*
1.5	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3	NAMSR-8W x 3	NAMSR-8W x 3
2.0	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3
3.0	NAMSR-8W x 1	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2

*for plastic pipes

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Minimum ambient temperature

18.00" pipe		0°	-10°	-20°	-30°	-40°
1.0	NAMSR-8W x 3	NAMSR-8W x 3 <i>NAMSR-8W x 4*</i>	NAMSR-8W x 4	NAMSR-8W x 4 <i>n/a*</i>	<i>n/a</i>	
1.5	NAMSR-8W x 2	NAMSR-8W x 2 <i>NAMSR-8W x 3*</i>	NAMSR-8W x 3	NAMSR-8W x 3	NAMSR-8W x 3 <i>NAMSR-8W x 4*</i>	
2.0	NAMSR-5W x 2 <i>NAMSR-8W x 2*</i>	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3	NAMSR-8W x 3	
3.0	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-5W x 2 <i>NAMSR-8W x 2*</i>	NAMSR-8W x 2	NAMSR-8W x 2	

20.00" pipe		0°	-10°	-20°	-30°	-40°
1.0	NAMSR-8W x 3	NAMSR-8W x 4	NAMSR-8W x 4 <i>n/a*</i>	<i>n/a</i>	<i>n/a</i>	
1.5	NAMSR-8W x 2	NAMSR-8W x 3	NAMSR-8W x 3	NAMSR-8W x 3 <i>NAMSR-8W x 4*</i>	NAMSR-8W x 4	
2.0	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2 <i>NAMSR-8W x 3*</i>	NAMSR-8W x 3	NAMSR-8W x 3	
3.0	NAMSR-8W x 1	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2	

24.00" pipe		0°	-10°	-20°	-30°	-40°
1.0	NAMSR-8W x 3 <i>NAMSR-8W x 4*</i>	NAMSR-8W x 4	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	
1.5	NAMSR-8W x 2 <i>NAMSR-8W x 3*</i>	NAMSR-8W x 3	NAMSR-8W x 3 <i>NAMSR-8W x 4*</i>	NAMSR-8W x 4	NAMSR-8W x 4 <i>n/a*</i>	
2.0	NAMSR-8W x 2	NAMSR-8W x 3	NAMSR-8W x 3	NAMSR-8W x 3	NAMSR-8W x 3 <i>NAMSR-8W x 4*</i>	
3.0	NAMSR-5W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 2	NAMSR-8W x 3	

Insulation thickness (in.)

*for plastic pipes

Cable ratings

	Systems (500ft)	Output @ 50°F (W/Ft.)	Max. Circuit Length (Ft.)	Weight (lbs.) 1000'
120 Volts	NAMSR-3W-120V	3	360	64
	NAMSR-5W-120V	5	270	64
	NAMSR-8W-120V	8	215	64
208-277 Volts	NAMSR-3W-240V	3	660	64
	NAMSR-5W-240V	5	540	64
	NAMSR-8W-240V	8	420	64

*See chart on page 4 for maximum circuit lengths by start-up temperature and circuit breaker size.

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
JB-CONNECTION-KIT	Power connection kit: power termination kit for entry into JB box for one circuit.
JB	Junction Box
SR-SPLICE-TEE-KIT	Splice & Tee Kit: includes materials for 5 splices and/or tees.
AR-END-KIT	End Seal Fitting: includes materials for 5 end seals.
PS-1, PS-3, PS-10	Pipe Straps: pipe straps to affix JB-Connection-Kit to pipes.
FT-2	Fiberglass Tape: tape to affix cable to pipe, 66' x 1/2" roll, install on 12" centers.
AT-1	Aluminum Tape: tape to aid heat transfer on plastic pipes, 180 foot roll. Apply over cable along entire length of circuit.
CL-1	Caution Labels: "Electrical Heat Tracing" caution labels, 5 per package. Install every 10 feet.
Control Panels	Contact your Warmup representative for Control Panel information.

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