

WSP

For freeze protection and process heating applications up to 250°F (120°C)

WinterSafe Plus®

Self Regulating Heating Cable



- ◆ *Automatically adjusts heat output in response to increasing or decreasing pipe temperature*
- ◆ *Can be cut to length without any waste*
- ◆ *Will not overheat or burn out even when overlapped*
- ◆ *Available in 120 and 240 volt versions*
- ◆ *FM and CSA approved for use in unclassified, hazardous and corrosive areas and environments*
- ◆ *Can be used safely on piping that is routinely steam cleaned*

INTRODUCTION

WinterSafe Plus is a high temperature, industrial grade self-regulating heating cable that can be used for applications ranging from simple freeze protection up to process temperature maintenance of 250°F.

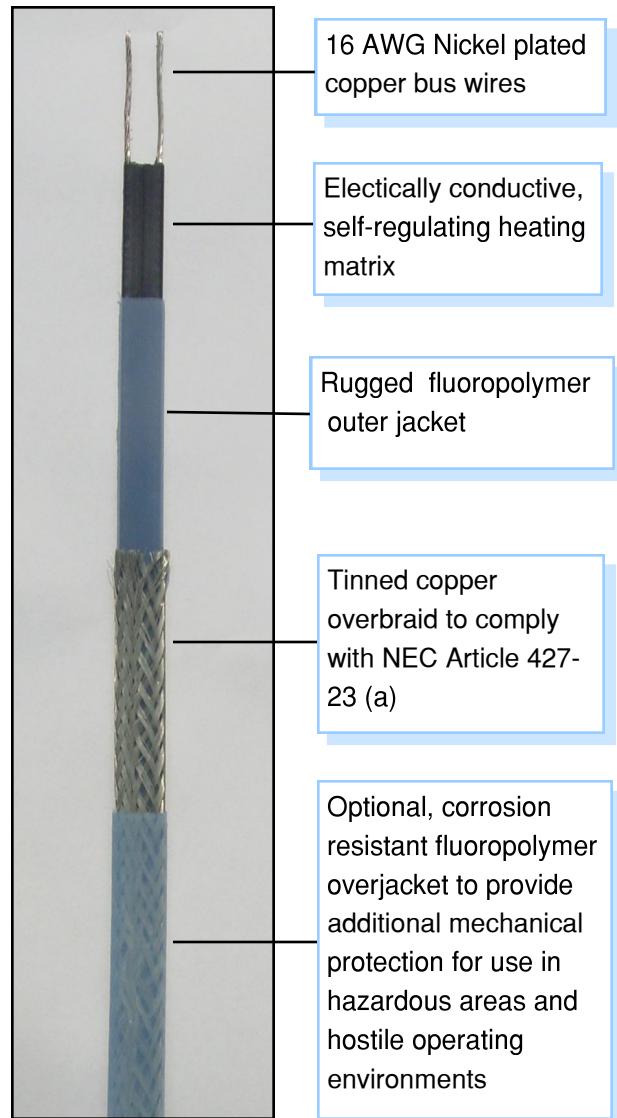
With a maximum exposure temperature rating of 366°F, WinterSafe Plus is ideal for installation on piping systems that may need to be routinely or periodically steam cleaned.

The self-regulating feature of WinterSafe Plus ensures complete safety and reliability. WinterSafe Plus heating cable cannot overheat or burnout even when overlapped upon itself.

WinterSafe Plus can be cut to length at the job site automatically matching the exact piping length being traced. The need to pre-plan and layout the cable routing is unnecessary. Use only what is needed. There is no waste and any leftover cable can be stored and kept ready for use on future applications.

The installation of WinterSafe Plus heating cable is quick, simple and requires no special tools, skills or knowledge. A complete range of standard power connection kits, splice kits, tee splice kits and controls are readily available.

WinterSafe Plus heating cable is third party approved by both FM and CSA for use in unclassified areas, most hazardous areas and corrosive environments (see Specification shown on the opposite page)



SPECIFICATION

WinterSafe Plus

MAXIMUM TEMPERATURE Maintenance 250° F (120°C)
Exposure 366° F (185°C)

MAX LENGTH (FT) vs. CIRCUIT BREAKER SIZE

TEMPERATURE CLASSIFICATION

T3

OPERATING VOLTAGES

110 / 120
208/220/240/277

APPROVALS AND CERTIFICATIONS

FM Approvals (Factory Mutual) Class I Div 1* Groups B, C & D
Class I Div 2 Groups B, C & D
Class II Div 2 Groups F & G
Class III Div 2

Canadian Standards Association (CSA) Class I Div 1* & 2 Groups A,B,C & D
Class II Div 1* & 2 Groups E, F & G
Class III Div 1* & 2

* Consult HTD Heat Trace, Inc for specific information on all Division 1 applications and systems

Ref	Start up temp	120			240		
		15A	20A	30A	15A	20A	30A
WSP 5	50°F	150	200	240	250	330	480
	0°F	135	180	220	230	305	440
	-40°F	130	170	210	220	295	420
WSP 10	50°F	90	120	180	140	190	280
	0°F	85	110	165	130	175	260
	-40°F	80	105	160	125	170	250
WSP 15	50°F	70	90	135	100	135	200
	0°F	65	85	125	95	125	185
	-40°F	60	80	120	90	120	180

Note:

HTD Heat Trace Inc and the 2002 National Electric Code, Sections 426 and 427 require the use of ground fault equipment protection .

Square D type QO-EPD and QOB-EPD circuit breakers with 30 mA trip levels are recommended.

PRODUCT RANGE

Product Ref	Watts/ft @ 50° F	Voltage	Max Circuit Length (ft)
WSP 51	5	120	240
WSP 101	10	120	180
WSP 151	15	120	135
WSP 52	5	240	480
WSP 102	10	240	280
WSP 152	15	240	200

POWER ADJUSTMENT FACTORS WITH ADJUSTED RATINGS

Cable type	208 volts		277 volts	
WSP 52	0.78	3.90 w/ft	1.25	6.25 w/ft
WSP 102	0.86	8.60 w/ft	1.16	11.60 w/ft
WSP 152	0.92	13.80 w/ft	1.09	16.35 w/ft

ORDERING INFORMATION

Feature	Designation
Product Code	WSP
Watts / ft	5, 10 or 15
Voltage	120 240
Tinned Copper Overbraid	C
Optional Overjacket	Fluoropolymer (T)

ACCESSORIES

HTD Heat Trace, Inc supplies a full range of accessories for use with the WinterSafe Plus product range. Accessories include termination kits, splice kits, tee splice kits, fixing tape, heat transfer tape, junction boxes and thermostats. Please consult HTD for full details

EXAMPLE

To order a 5 watts/ft cable for operation on 120 volts, complete with overbraid and fluoropolymer, overjacket, the final product and ordering code should read:

WSP 51CT

WinterSafe Plus®

Self Regulating Heating Cable

WSP

POWER
OUTPUT
GRAPH



METAL PIPES

INTRODUCTION

WinterSafe Plus is a high temperature, industrial grade, self-regulating heating cable that can be used on metal pipe applications ranging from simple freeze protection to process temperature maintenance of 250° F.

WinterSafePlus, with its high temperature exposure rating of 366°F, can be installed and

used safely on piping that may require routine or periodic steam cleaning or purging.

The power output (watts/ft) of a self-regulating heating cable varies with operating temperature. Use the graph shown below to determine the actual power output on each application based upon the operating temperature of the pipe.

POWER OUTPUT RATINGS ON INSULATED METAL PIPES

