

# AWX

For freeze protection and process heating applications up to 375°F (190°C).

# AutoWatt Xtra®

## Self-Regulating Heating Cable



- ◆ *Automatically adjusts heat output in response to increasing or decreasing pipe temperature*
- ◆ *Will not overheat or burn out even when overlapped*
- ◆ *Available with power ratings up to 30 w/ft (99 w /m)*
- ◆ *Suitable for applications with exposure temperatures up to 450°F (232°C)*
- ◆ *Extensive power range, available in both 110 -120 VAC and 208 - 277 VAC versions*
- ◆ *FM, CSA and SEMCO approved for use in unclassified areas, most hazardous areas and corrosive environments*

## INTRODUCTION

AutoWatt Xtra encompasses the very latest self-regulating technology combined with the use of high temperature PFA insulating materials to offer one heating cable that is superior to all others.

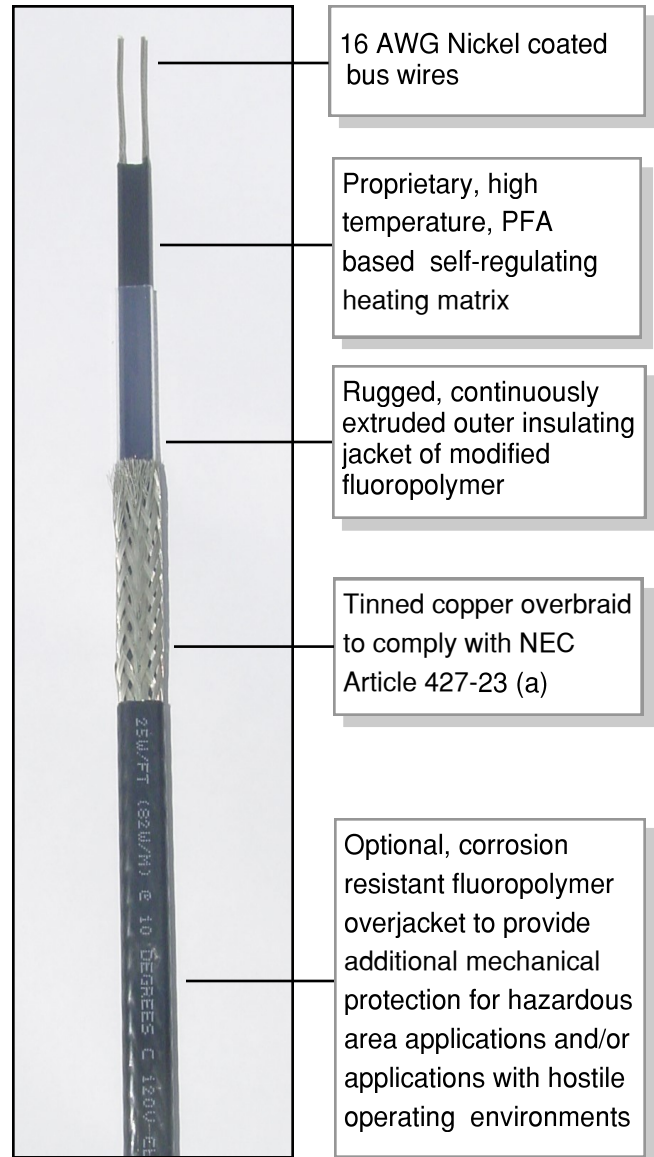
Consider the following competitive facts:

- ◆ AutoWatt Xtra can provide process temperature maintenance up to 375°F
- ◆ AutoWatt Xtra can be used on applications with exposure temperatures up to 450°F
- ◆ AutoWatt Xtra can provide up to 30 watts per foot of power - *nearest competitive capability is 20 watts per foot.*

AutoWatt Xtra heating cables provide an ideal solution for industrial freeze protection and process maintenance applications that require high temperature qualifications. With power ratings up to 30 watts/ft, AutoWatt Xtra heating cables are also perfect for heating large diameter pipes with high levels of heat loss.

The self-regulating feature of AutoWatt Xtra ensures complete safety and reliability. AutoWatt Xtra cannot overheat or burnout even when overlapped upon itself.

AutoWatt Xtra heating cables are third party approved by FM Approval, CSA and SEMCO for use in unclassified areas, most hazardous areas and corrosive environments (see Specification shown on the opposite page)



# SPECIFICATION

# AutoWatt Xtra

**MAXIMUM TEMPERATURES** Maintenance 375°F (190°C)  
Exposure 450°F (232°C)

**TEMPERATURE CLASSIFICATION** T4 5-15 w/ft  
T5 20-30 w/ft

**OPERATING VOLTAGES** 110 / 120  
208/220/240/277

## APPROVALS AND CERTIFICATIONS

FM Approvals (Factory Mutual)      Unclassified locations  
Class I Div 1\* Groups B, C & D  
Class I Div 2 Groups A, B, C & D  
Class II / III Div 1\* Groups E, F & G  
Class II / III Div 2 Groups F & G  
Class I, Zone 1\* Group IIB + H2  
Class I Zone 2, Group IIC

Canadian Standards Association (CSA)      Unclassified locations 3(A,B,C), 5(A,B)  
Class I Div 1\* / 2 Groups B, C, & D  
Class I Div 2 Groups B, C & D  
Class II Div 2 Groups F,G

\* Contact HTD Heat Trace, Inc for specific information on all Div 1 applications and systems.

## MAX LENGTH (FT) vs. CIRCUIT BREAKER SIZE

Ref	Start up temp	120 VAC			240 VAC		
		15A	20A	30A	15A	20A	30A
AWX 5	50°F	180	240	335	360	480	540
	0°F	165	220	330	325	430	540
	-50°F	150	200	300	290	385	540
AWX 10	50°F	120	160	180	240	320	360
	0°F	105	140	180	230	305	360
	-50°F	90	120	180	225	300	360
AWX 15	50°F	80	105	135	160	210	270
	0°F	70	90	135	140	185	270
	-50°F	60	80	120	120	160	240
AWX 20	50°F	60	90	120	115	150	230
	0°F	55	70	110	110	145	220
	-50°F	50	65	100	105	140	210
AWX 25	50°F	45	60	85	90	120	170
	0°F	40	50	80	80	100	160
	-50°F	40	50	80	80	100	160
AWX 30	50°F	40	50	70	80	100	140
	0°F	35	45	70	70	90	140
	-50°F	35	45	70	70	90	140

### 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 30mA trip levels are recommended.

## PRODUCT RANGE

Product Ref	Watts/ft @ 50° F	Voltage	Max Circuit Length (ft)
AWX 51	5	120	335
AWX 101	10	120	180
AWX 151	15	120	135
AWX 201	20	120	120
AWX 251	25	120	85
AWX 301	30	120	70
AWX 52	5	240	540
AWX 102	10	240	360
AWX 152	15	240	270
AWX 202	20	240	230
AWX 252	25	240	170
AWX 302	30	240	140

## ORDERING INFORMATION

Feature	Designation
Product Code	AWX
Watts / ft	5, 10,15, 20 or 30
Voltage	120 240
Tinned Copper Overbraid	C
Optional Overjacket	Fluoropolymer (T)

### EXAMPLE

To order a 15 watts/ft cable for operation on 120 volts, complete with overbraid and fluoropolymer overjacket, the final product and ordering code should read:

**AWX 151CT**

## ACCESSORIES

HTD Heat Trace, Inc supplies a full range of accessories for use with the AutoWatt Xtra 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.

# AutoWatt Xtra®

## Self Regulating Heating Cable

AWX

POWER  
OUTPUT  
GRAPH



## METAL PIPES

### INTRODUCTION

AutoWatt Xtra is a high temperature, industrial grade, self-regulating heating cable with exceptional design and application capabilities. The product can be used on all sizes of metal piping for applications ranging from basic freeze protection to process maintenance temperatures of 375° F.

AutoWatt Xtra safely tolerates intermittent exposure temperatures of 450°F.

This product is ideal for use on process 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**

