

## Wide Heavy Insulated Heating Tape

### Description:

Wide Heavy heaters are made of two or more standard tapes sewn between layers of heavy fiberglass, or AMOX™ cloth. They are very flexible, and may be used on conductive surfaces such as metal as well as glassware and ceramic.



### High Temperature Capability

**1400°F AMOX™ Yarn Insulation:**

AWH Wide Heavy Tapes may be operated to 1400°F, with de-energized exposures to 1600°F.

**900°F Fiberglass Yarn Insulation:**

AIH Wide Heavy Tapes may be operated to 900° F, with de-energized exposures to 1000° F.

### Low Watt Density Design

**13 Watts/In<sup>2</sup>:**

AWH AMOX™ Wide Heavy Tapes are rated at 13 watts/in<sup>2</sup> of internal element.

**8.67 Watts/In<sup>2</sup>:**

AIH Fiberglass Wide Heavy Tapes are 8.67 watts/in<sup>2</sup> of internal element.

### Knitted, Serpentine, Construction

**Minimized Expansion, Vibration and Thermal Stress:**

Unlike other straight element tapes, HTS/Amptek® tapes are knitted into sine wave configurations. The element is cushioned and supported by knitted warp fabric as it expands evenly in all directions rather than one.

**Longer Life:**

Knitting puts more element length into a given area, providing longer life through better distribution of heat. (lower watts per inch of wire)

**Flexible:**

Knitting yields ultimate flexibility.

### Multi-Strand Wire Element

**High Temperature and Flexible:**

All HTS/Amptek® tape elements are bundled fine strand resistance wire, 36 to 40 gauge, covered with a minimum of two layers of braided AMOX™ yarn.

### Heavy Cloth Outer Cover

**AWH, Amox™ Cloth or AIH, F/G Cloth.**

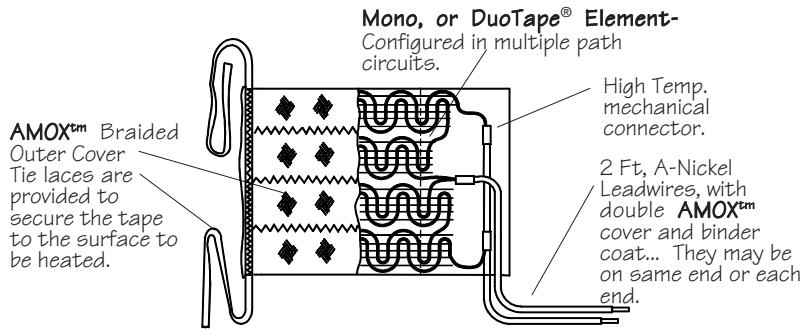
The heavy cloth outer cover provides blanket type abrasion and dielectric protection for the element. This feature allows wide heavy tapes to be used on conductive surfaces.

### Lead Wires, High Temperature

**2 Ft. Leads on Each End:**

The multi-strand, 'A' Nickel conductor is covered with two layers of AMOX™ yarn and impregnated with a high temperature binder.

# Wide Heavy Insulated Laboratory Heating Tapes



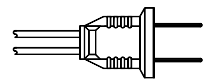
## Heating Tape Basic Construction:

HTS/Amptek® tape construction begins by first: double braiding high temperature AMOX™ yarn over multiple strands of fine resistance wire, then second: knitting the assembly into a tight, serpentine configuration, forming a flat tape.

## Wide Heavy Insulated Tapes Feature:

Similar element construction of other HTS/Amptek® tapes, except that two or more flat tape elements are configured side by side as shown. The multiple elements are internally wired to allow the leads to exit from one end. An additional overbraid of high temperature AMOX™ yarn for abrasion and dielectric strength.

An optional molded plug may be added to Wide Heavy tapes except as noted below.



### Fiberglass Wide Heavy Insulated AIH Style 900°F (482°F) Maximum

Catalog Number	Watts	Volts	Size (US)	Metric (cm)
AIH-171-020	208	120	1.25" X 2'	3.1 X 60
AIH-171-040	416	120	1.25" X 4'	3.1 X 120
AIH-171-060	624	120	1.25" X 6'	3.1 X 180
AIH-171-080	832	120	1.25" X 8'	3.1 X 240
AIH-172-100	1040	240	1.25" X 10'	3.1 X 300
AIH-251-020	312	120	2.00" X 2'	5.0 X 060
AIH-251-040	624	120	2.00" X 4'	5.0 X 120
AIH-251-060	936	120	2.00" X 6'	5.0 X 180
AIH-251-080*	1248	120	2.00" X 8'	5.0 X 240
AIH-252-100*	1560	240	2.00" X 10'	5.0 X 300
AIH-321-020	416	120	2.75" X 2'	6.2 X 60
AIH-321-040	832	120	2.75" X 4'	6.2 X 120
AIH-321-060*	1248	120	2.75" X 6'	6.2 X 180
AIH-321-080* <sup>1</sup>	1664	120	2.75" X 8'	6.2 X 240
AIH-322-100* <sup>1</sup>	2080	240	2.75" X 10'	6.2 X 300

### AMOX™ Wide Heavy Insulated AWH Style 1400°F (760°F) Maximum

Catalog Number	Watts	Volts	Size (US)	Metric (cm)
AWH-171-020	312	120	1.25" X 2'	3.1 X 60
AWH-171-040	624	120	1.25" X 4'	3.1 X 120
AWH-171-060	936	120	1.25" X 6'	3.1 X 180
AWH-171-080*	1248	120	1.25" X 8'	3.1 X 240
AWH-172-100*	1560	240	1.25" X 10'	3.1 X 300
AWH-251-020	468	120	2.00" X 2'	5.0 X 060
AWH-251-040	936	120	2.00" X 4'	5.0 X 120
AWH-251-060*	1404	120	2.00" X 6'	5.0 X 180
AWH-251-080*	1872	120	2.00" X 8'	5.0 X 240
AWH-252-100*	2340	240	2.00" X 10'	5.0 X 300
AWH-321-020	624	120	2.5" X 2'	6.2 X 60
AWH-321-040*	1248	120	2.5" X 4'	6.2 X 120
AWH-321-060*	1878	120	2.5" X 6'	6.2 X 180
AWH-321-080* <sup>1</sup>	2496	120	2.5" X 8'	6.2 X 240
AWH-322-100* <sup>1</sup>	3120	240	2.5" X 10'	6.2 X 300

\*No Optional plug may be supplied due to voltage, or amps. <sup>1</sup> These have 2 sets of leadwires on one end, due to amps.

### To Order or Additional Information:

Contact your local HTS/Amptek Representative or Distributor or call us direct.

### Special Designs Available:

Contact HTS/Amptek for custom configurations. Typical modifications are length, width, watts, volts, ohms, lead length, plugs and insulation type. Part numbers and specifications may be changed without notice.

### Accessories Available From

#### HTS/Amptek:

High temperature accessories such as additional lead wire, crimp connectors, insulating tape and temperature controls provide the convenient pieces to quickly perform your task.

[www.heatingtapes.com](http://www.heatingtapes.com)

# HTS/Amptek

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