

Duo-Tape[®] Heavy Insulated Tape

Description:

HTS/Amptek Duo-Tape[®] heaters are high temperature, flexible electric heating elements. A unique dual element circuit design allows the convenience of power leads on one end. Duo-Tapes[®] may be used on conductive surfaces as well as ceramic or glass.



High Temperature Capability

1400°F AMOX[®] Yarn Insulation:

AWH style heating tapes may be operated to 1400°F, with de-energized exposures to 1600°F.

High, Medium and Low Watt Density, Standard Designs

13 Watts/Inch² 8.67 Watts/Inch² 3.25 Watts/Inch²

Duo-Tape[®] laboratory style heating tapes are offered in three standard watt densities; 'D' high @ 13 WSI
'DM' medium @ 8.67 WSI
'DL' low @ 3.25 WSI

Power Leads on One End

Duo-Tape[®]

The unique, dual element circuit design allows the leadwires to exit from one end. (see reverse side)

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 Braided Outer Cover

Heavy Amox[®] Yarn:

The heavy braided outer cover provides added abrasion and dielectric protection for the element. Duo-Tapes[®] may be used on conductive surfaces, such as metal tubing etc., in addition to nonconducting ceramic and glassware.

Lead Wires, High Temperature

2 Ft. Leads on One End:

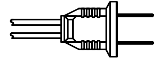
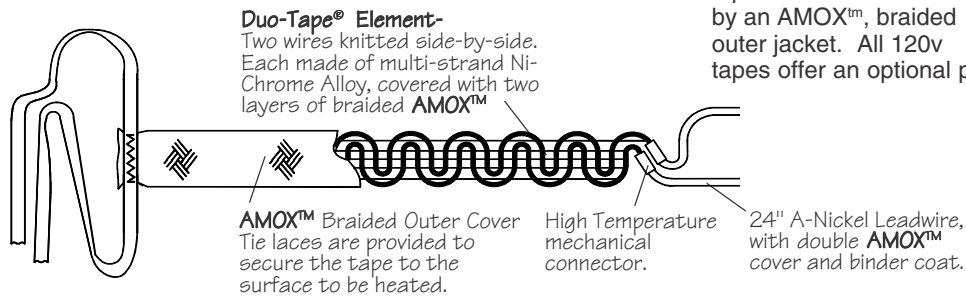
The multiple strand, 'A' Nickel conductor is covered with two layers of AMOX[®] yarn and impregnated with a high temperature binder.

Duo-Tape® (leads on the same end) Heavy Insulated 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.

Duo-Tape® Heavy Insulated Tapes Feature the element construction of other tapes, except that two elements are knitted side by side as shown. This improved arrangement allows the two elements to be connected in series at one end and the leads to exit the other. The tape element is covered by an AMOX™, braided outer jacket. All 120v tapes offer an optional plug.



'D', High Watt Density 13 W/in ² , 1400°F (760°C) Max			'DM', Medium Watt Density 8.66 W/in ² , 1400°F (760°C) Max			'DL', Low Watt Density 3.25 W/in ² , 1400°F (760°C) Max			Size (US)	Metric (cm)
Catalog Number	Watts	Volts	Catalog Number	Watts	Volts	Catalog Number	Watts	Volts		
AWH-051-020D	156	120	AWH-051-020DM	104	120	AWH-051-020DL	39	120	.5" X 2'	1.3 X 060
AWH-051-040D	312	120	AWH-051-040DM	208	120	AWH-051-040DL	78	120	.5" X 4'	1.3 X 120
AWH-051-060D	468	120	AWH-051-060DM	312	120	AWH-051-060DL	117	120	.5" X 6'	1.3 X 180
AWH-051-080D	624	120	AWH-051-080DM	416	120	AWH-051-080DL	156	120	.5" X 8'	1.3 X 240
AWH-052-100D	780	240	AWH-051-100DM	520	120	AWH-051-100DL	195	120	.5" X 10'	1.3 X 300
AWH-052-120D	936	240	AWH-052-120DM	624	240	AWH-051-120DL	234	120	.5" X 12'	1.3 X 360
AWH-052-160D	832	240	AWH-052-160DM	832	240	AWH-051-160DL	312	120	.5" X 16'	1.3 X 480
AWH-101-020D	312	120	AWH-101-020DM	208	120	AWH-101-020DL	78	120	1" X 2'	2.5 X 060
AWH-101-040D	624	120	AWH-101-040DM	416	120	AWH-101-040DL	156	120	1" X 4'	2.5 X 120
AWH-102-060D	936	240	AWH-102-060DM	624	240	AWH-101-060DL	234	120	1" X 6'	2.5 X 180
AWH-102-080D	1248	240	AWH-102-080DM	832	240	AWH-101-080DL	312	120	1" X 8'	2.5 X 240
			AWH-102-100DM	986	240	AWH-102-100DL	385	240	1" X 10'	2.5 X 300
						AWH-102-120DL	468	240	1" X 12'	2.5 X 360
						AWH-102-160DL	624	240	1" X 16'	2.5 X 480

Plugs are not standard. (optional on 120 Volt tapes) Most sizes are available in 240V... see pricelist for complete listing.

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.

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

HTS/Amptek

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