Heat Trace Installation System

The Panduit solution for electric heat trace installation utilizes the Panduit Heat Trace Wave-Ty™ as a part of the installation process. Panduit's Heat Trace Solution is for use in the installation of Mineral Insulated Electric Heat Trace (MIEHT) and eliminates some of the key problems with tie wire, mainly safety concerns and damaging of the MIEHT. By using electric heat trace ties specifically sized for common industrial pipes, this approach allows the installer to quickly and safely install EHT in about one third of the time as typical tie wire.

features and benefits

Safety:	Significantly lower risk of health and safety concerns vs. tie wire. Tie wire can result in puncture risk along with blood poisoning concerns due to residual coating. Tie wire installation can result in repetitive strain injuries and carpel tunnel syndrome.
Installation Speed:	Installs 2 – 3 times faster than tie wire depending upon fixture. Ball valve took 883 seconds to install using tie wire and only 271 seconds using a Heat Trace Wave-Ty™ for 225% savings (time).
Lower Installed Cost:	Can deliver approximately 30% lower overall installed cost versus tie wire depending upon pipe diameter. Approximately 50% of the overall cost for installation of heat trace can be attributed to labor.
Reliability:	Heat Trace Wave-Ty™ does not damage mineral insulated electric heat trace. Wide, flat profile along with spring design does not damage heat trace.
Reduced Down Time:	Prevents damage to electric heat trace due installation. Over tensioning of tie wire can result in damage to electric heat trace ultimately lead to failures and an increase in downtime.

Information based upon results of Test Report SS-PLR-367 – Heat Trace Wire and Insulation Installation Time Study.

application

Electric Heat Trace is commonly used for temperature maintenance, viscosity control or freeze protection. This is typically done by using traced pipes with insulation and cladding. The traced pipes can be accomplished in several ways. For the purposes of this document, we will be focusing solely on mineral insulated electric heat trace.

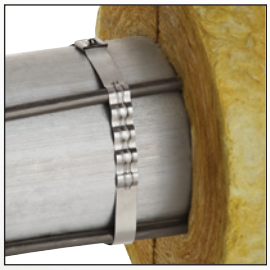
Tie wire is commonly used within the industry to install mineral insulated electric heat trace. Heat trace installation using tie wire requires training and tensioning is dependent on installer skill and experience. Tooling used with tie wire consists of a pair of nippers or linesman's pliers. The installer twists and turns the tie wire in order pull the heat trace closer to the pipes. Too much tension can result in damage to the heat trace. The installation process requires a great deal of repetitive twisting and pulling to position the heat trace close to the pipes.

Heat trace tie wire is generally applied approximately every 12 inches on vertical and horizontal runs. In a time study, Panduit found that the installers took approximately 1.6 minutes on average for vertical and horizontal runs. Elbows, ball valves, flanges and T-valves just added to the complexity with average times ranging from 2.58 minutes to 14.72 minutes depending upon fixture. Installation problems associated with tie wire tend to fall into two categories. The first are safety concerns ranging from puncture hazards (from cut tie wire), blood poisoning, pulling and twisting tie wire (RSI, CTS) and more. The other area is around damage to, and system reliability of the heat trace. Tie wire if over tensioned can damage the heat trace.

technical information

Material:	304 Grade Stainless Steel
Minimum Loop Tensile Strength:*	600 lbs., 2670 Newtons
Maximum Temperature Rating:	538 °C, 1000 °F
Minimum Temperature Rating:	-80 °C, -112 °F
RoHS:	Compliant
Flammability:	Non Flammable
Ultra-Violet Light Resistance:	Excellent

*Minimum Loop Tensile Strength for HTMLT38WEH-Q is 300 lbs., 1335 Newtons



Heat Trace Wave-Ty

Ordering Information

Part Number	Length In.	Width In.	Qty. (Units)	Tools
HTMLT2.7WEH-LP	10.2	0.5	50	ST2MT, ST4MT and RT2HT
HTMLT4WEH-LP	14.3	0.5	50	ST2MT, ST4MT and RT2HT
HTMLT6WEH-LP	20.5	0.5	50	ST2MT, ST4MT and RT2HT
HTMLT8WEH-LP	26.8	0.5	50	ST2MT, ST4MT and RT2HT
HTMLT10WEH-LP	33.0	0.5	50	ST2MT, ST4MT and RT2HT
HTMLT12WEH-Q	42.2	0.5	25	ST2MT, ST4MT and RT2HT
HTMLT16WEH-Q	54.8	0.5	25	ST2MT, ST4MT and RT2HT
HTMLT26WEH-Q	86.2	0.5	25	ST2MT, ST4MT and RT2HT
HTMLT38WEH-Q	123.9	0.5	25	ST2MT, ST4MT and RT2HT

Heat Trace Installation Tools

- Tools speed installation
- Features high reliability, low maintenance, and long life

ST2MT

ST4MT

RT2HT

ordering information

Part Number	Description	Std. Pkg. Qty.
ST2MT	Installation tool for use with standard to extra heavy ties. Manual tensioning controlled by operator. This tool uses twist cut mechanism.	1
ST4MT	Installation tool for use with HTMLT. Manual tensioning controlled by operator. This tool has a built in cutting lever for clean recessed cutoff.	1
RT2HT	Installation tool for use with standard to extra heavy ties. Side entry design for immediate positioning of tie and tool in order to speed installation. Tensioning controlled by operator. Use lowest tension setting for this application.	1

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