heaterzone.com THE INTERNET HEATER CABLE SOURCE

Commercial Heater Cable - Pipe Freeze Charts

Cable Selection @ 0°F Minimum Ambient Temperature

Application Design Conditions	
Maintain Temperature	40 °F
Insulation Type	Fiberglass
Wind Speed	20 MPH
Safety Factor	10%
Heater Attachment	Fiberglass Tape

*** Includes Carbon Steel, Stainless Steel and Copper pipe.**

**** Includes FRP, PVC, CPVC, HDPE, ABS and Polypropylene.**

The information in the tables below represents the wattage of cable necessary to meet the Design Conditions. If a single pass of cable does not satisfy the heat loss requirement, then multiple passes are shown. Example: 5(2) (two passes of 5 watt product).

Metallic Pipe Applications *

208 VAC										
Insulation Thickness	Pipe Size (in inches)									
	0.50	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00
0.5”	3	3	5	5	5	8	8	8	8(2)	8(2)
1.0”	3	3	3	3	5	5	5	5	8	8
1.5”	3	3	3	3	3	3	5	5	5	8
2.0”	3	3	3	3	3	3	3	5	5	5
120/240 VAC										
Insulation Thickness	Pipe Size (in inches)									
	0.50	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00
0.5”	3	3	3	5	5	5	8	8	5(2)	8(2)
1.0”	3	3	3	3	3	3	5	5	8	8
1.5”	3	3	3	3	3	3	3	3	5	5
2.0”	3	3	3	3	3	3	3	3	5	5
277 VAC										
Insulation Thickness	Pipe Size (in inches)									
	0.50	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00
0.5”	3	3	3	3	3	5	5	8	5(2)	8(2)
1.0”	3	3	3	3	3	3	3	3	5	5
1.5”	3	3	3	3	3	3	3	3	3	5
2.0”	3	3	3	3	3	3	3	3	3	3

Non-Metallic Pipe Applications **

208 VAC										
Insulation Thickness	Pipe Size (in inches)									
	0.50	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00
0.5”	5	5	5	8	8	5(2)	8(2)	8(2)		
1.0”	3	3	5	5	5	8	8	8	8(2)	8(2)
1.5”	3	3	3	5	5	5	5	8	8	8(2)
2.0”	3	3	3	3	5	5	5	5	8	8
120/240 VAC										
Insulation Thickness	Pipe Size (in inches)									
	0.50	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00
0.5”	3	5	5	8	8	8	5(2)	8(2)		
1.0”	3	3	3	5	5	5	8	8	5(2)	8(2)
1.5”	3	3	3	3	3	5	5	5	8	5(2)
2.0”	3	3	3	3	3	3	3	5	8	8
277 VAC										
Insulation Thickness	Pipe Size (in inches)									
	0.50	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00
0.5”	3	3	3	5	8	8	5(2)	5(2)	8(2)	
1.0”	3	3	3	3	3	5	5	8	5(2)	5(2)
1.5”	3	3	3	3	3	3	3	5	8	8
2.0”	3	3	3	3	3	3	3	3	5	8