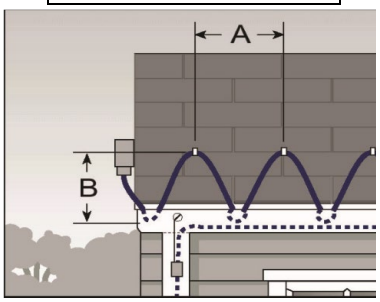
NeverFreeze® Cable Worksheet

Cable

Step 1 - Record Measurements		
A	Roof Overhang:	
B	Roof Length:	
C	Gutter Length:	
D	Downspout Length:	
E	Number of Downspouts:	
F	Distance Around Dormer:	
G	Number of Dormers:	
H	Number of Valleys:	
I	Breaker Rating:	

TABLE 1: REQUIRED CABLE			
Roof Overhang	A Heating Width	B Heating Height	Spacing Factor
12 in	24 in	18 in	2
24 in	24 in	30 in	3
36 in	24 in	42 in	4

*Regardless of overhang, these are standard measurements.



Step 2 – Determine Spacing Factor		
J	Determine Your Roof's Spacing Factor Found in Table 1 (Left)	

Step 3 – Complete Calculations		
K	Multiply Roof's Spacing Factor (J) by Roof Length (B)	
L	Multiply Number of Dormers (G) by Distance Around Each Dormer (F)	
M	Multiply Number of Valleys (H) by 6 ft (1.8 m)	
N	Multiply Number of Downspouts (E) by Downspout Length (D) by 2	

Step 4 – Find Total Cable Length Needed		
O	Add Figure from C (Gutter Length), K (Roof Calculation), and N (Downspout Calculation)	

Circuits

Step 5 - Circuit Calculations		
P	Determine the Maximum Heater Length for Your Breaker Rating Found in Table 3 (Below)	
Q	Divide Total Cable Length (O) by Maximum Heater Length Above (P)	

TABLE 3: CIRCUIT LENGTH PER BREAKER			
	120V		
	15A	20A	30A
Start Up @ 0°F	90 ft	120 ft	175 ft
Start Up @ - 20°F	75 ft	100 ft	150 ft
	240V		
	15A	20A	30A
Start Up @ 0°F	135 ft	185 ft	275 ft
Start Up @ -20°F	120 ft	160 ft	250 ft