

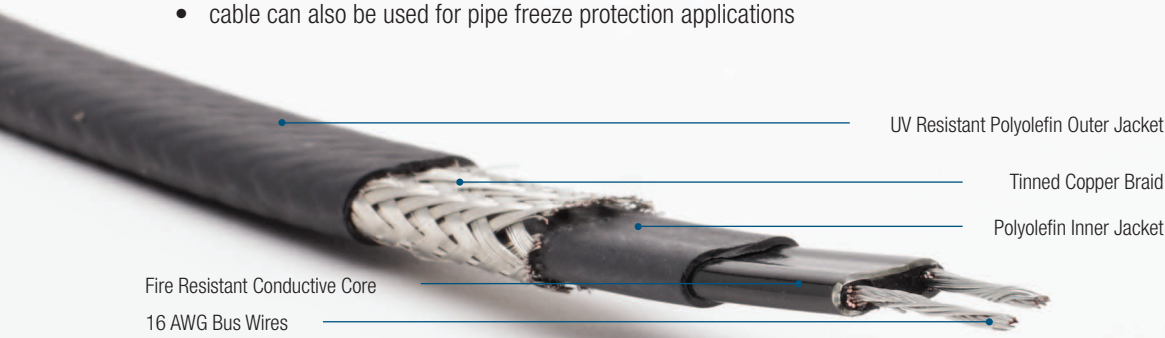
Nuheat 13mm Heating Cable

For Roof & Gutter De-Icing

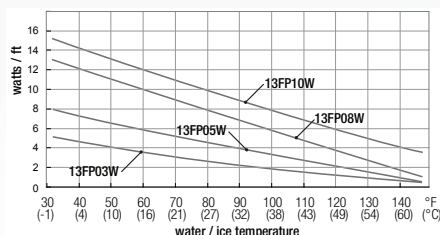
Nuheat 13mm self-regulating roof and gutter de-icing cables are designed for commercial and residential (hazardous and non-hazardous) applications to create drain paths needed to prevent ice dams and ice build-up that can cause extensive damage to roof and gutter systems, without consuming excess energy. The power output will increase as ambient temperature decreases in the presence of ice or snowfall.

FEATURES

- compatible with Nuheat SpeedConnect components for quick and easy power connections, splices, and terminations on jobsite without use of heat shrinks
- regulates power output in response to changes in the ambient conditions
- cable can overlap across itself without risk of overheating and/or burnout for easy installation around roof, gutters, and downspouts
- cable can be cut or extended to required length on jobsite for ultimate versatility
- cable can also be used for pipe freeze protection applications



POWER OUTPUT CURVE



The Power Output Curve illustrates the relationship between wattage output and water / ice temperature. As the water / ice temperature rises, the heating cable uses less wattage and emits less heat.

WATTAGE OUTPUT SUMMARY

	Wattage Output	
	@ 32°F on ice / snow	@ 50°F on metal pipe
13FP03W	5	3
13FP05W	8	5
13FP08W	13	8
13FP10W	15	10

13mm SELF-REGULATING HEATING CABLE

MODEL NUMBERS

13FP03W1
13FP03W2
13FP05W1
13FP05W2
13FP08W1
13FP08W2
13FP10W1
13FP10W2

ROOF MATERIAL

Suitable for shingles, metal, plastic, tar and wood roofs

OUTPUT PER FOOT @ 32°F (in ice / snow)

5 watts - 13FP03W
8 watts - 13FP05W
13 watts - 13FP08W
15 watts - 13FP10W

VOLTAGE

120V (100V -130V)
240V (208V -277V)

CABLE DIMENSIONS

0.51 inches x 0.22 inches
(13.1mm x 5.6mm)

MINIMUM BEND RADIUS

1.18 inches (30mm)

MAXIMUM EXPOSURE TEMP.

150°F (66°C)

WARRANTY

10 years*

* available when online warranty card completed within 30 days of installation



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MAXIMUM CIRCUIT LENGTHS

MAXIMUM CIRCUIT LENGTHS			120V				240V			
Cable Selection	Start-up temp.		Breaker Sizes							
	°F	°C	15A	20A	30A	40A	15A	20A	30A	40A
13FP03W	50	10	275	275	275	275	550	550	550	550
	32	0	275	275	275	275	550	550	550	550
	14	-10	245	275	275	275	495	550	550	550
	-4	-20	210	275	275	275	420	550	550	550
13FP05W	50	10	215	215	215	215	430	430	430	430
	32	0	190	215	215	215	380	430	430	430
	14	-10	160	215	215	215	325	430	430	430
	-4	-20	140	190	215	215	285	380	430	430
13FP08W	50	10	145	170	170	170	295	345	345	345
	32	0	125	170	170	170	255	340	345	345
	14	-10	110	150	170	170	225	300	345	345
	-4	-20	100	130	170	170	200	265	345	345
13FP10W	50	10	115	150	150	150	190	250	310	310
	32	0	100	140	150	150	170	225	310	310
	14	-10	95	120	150	150	155	210	310	310
	-4	-20	85	110	150	150	145	195	295	310

ADJUSTMENT FACTORS

The Nuheat 13mm heating cables are rated at 240V. Adjustments need to be made to the power output as well as maximum circuit lengths if the supply voltage of the application is at 208V or 277V.

	Heating Cable	Power Output	Circuit Length
208V	13FP03W2	0.82	0.97
	13FP05W2	0.89	0.92
	13FP08W2	0.94	0.90
	13FP10W2	0.96	0.88
277V	13FP03W2	1.18	1.08
	13FP05W2	1.12	1.08
	13FP08W2	1.07	1.11
	13FP10W2	1.07	1.11

CONTROLS

The self-regulating cable can operate safely without the use of thermostats or controls but use of thermostats or controls is recommended to improve energy efficiency. Please contact your Nuheat Representative for more information on our sensors and controls.

GROUND-FAULT PROTECTION

Nuheat Industries and National Electrical Codes require 30-mA equipment ground-fault protection on each heating cable branch circuit to reduce the danger of fire caused by continuous electrical arcing resulting from improper installation or damage to the heating cable. Conventional circuit protection may not be suitable for preventing electrical arcing.