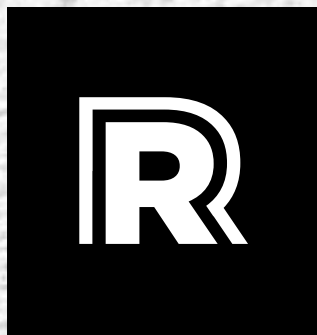


2025 CATALOG



FREEZE
PROTECTION
PRODUCTS

2025 RADIANT SOLUTIONS

HeatTapePRO™ Cable

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Roof Clips

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v.9.29.25



SUPPORT OPTIONS

Scan these QR codes to see
our most current product
manuals

HeatTapePRO™
Pre-Assembled Cable Manual



HTP Spoiled Cable
Spoiled Cable Manual



PipeFreezePRO™
Pre-Assembled Cable Manual



info@radiantsolutionscompany.com
www.radiantsolutionscompany.com

WHO ARE WE?



We're a small group of dedicated heat cable nerds, born and raised in the epicenter of all things ice, Minneapolis, Minnesota. Open the hood. Check us out. You'll see we've been busy creating unique solutions to the every-day challenges of heat cable. You'll also get the distinct impression that we actually care about you as a partner. Because we do.



HOW WE ROLL...

When you call us you'll get answers from a real person with a Mid-western accent and deep-seated impulse to please. We can't help it.

Try it out: 877-387-4218



HeatTapePRO

120 volt, 6 watts/foot, Pre-Assembled, Plug-in Ready



6w Plug-in-Ready Cables

It's hard to beat the convenience of HeatTapePRO™, our robust 6 watt/ft, 120v pre-assembled self-regulating heat cable line. New installers love this option because after the cable is installed it can simply be plugged into a standard outlet. This system requires no experience whatsoever to install and just like our spooled cable, it can be repaired on site if damaged. Here are additional benefits to using pre-assembled cables in general as a professional installer:



- Pros:
- Fast, easy, simple. Plug it in and you're done
 - 14 lengths from 6' up to 150'
 - No custom wiring or electrician required
 - Minimal skill required

Model	Length
HTP-1CR-PA-006	6 FT.
HTP-1CR-PA-012	12 FT.
HTP-1CR-PA-018	18 FT.
HTP-1CR-PA-024	24 FT.
HTP-1CR-PA-037	37.5 FT.
HTP-1CR-PA-050	50 FT.
HTP-1CR-PA-062	62 FT.

Model	Length
HTP-1CR-PA-075	75 FT.
HTP-1CR-PA-087	87 FT.
HTP-1CR-PA-100	100 FT.
HTP-1CR-PA-112	112 FT.
HTP-1CR-PA-125	125 FT.
HTP-1CR-PA-137	137 FT.
HTP-1CR-PA-150	150 FT.

6w, 8w & 10w Bulk Cable on Spools

Seasoned professionals often prefer bulk cable for the project flexibility it provides. No more crossing your fingers, hoping the cable will be the right length for the job. No need to stock a variety of pre-assembled cables to accommodate last-minute projects. All you need is your spool and a few connection kits to cover any situation you encounter in the field. Here are more specific benefits to using bulk cable as a professional installer:



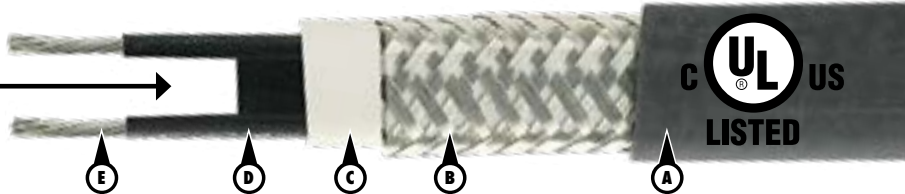
- Pros:
- Perfect layouts are easy to consistently achieve
 - 240 volt cable option allows runs up to 375'
 - Less complex inventory
 - Comes in both 120v & 240v (240v works with 208v & 277v)

Model	Length	Watts/Ft	Voltage
6HTP-1CR-250	250 Feet	6	120
6HTP-1CR-500	500 Feet	6	120
6HTP-1CR-1000	1000 Feet	6	120
6HTP-2CR-250	250 Feet	6	240
6HTP-2CR-500	500 Feet	6	240
6HTP-2CR-1000	1000 Feet	6	240
8HTP-2CR-250	250 Feet	8	240
8HTP-2CR-500	500 Feet	8	240
8HTP-2CR-1000	1000 Feet	8	240
10HTP-2CR-250	250 Feet	10	240
10HTP-2CR-1000	1000 Feet	10	240

Heavy-duty self-regulating heat cable for roof, gutter and pipe de-icing applications. The entire length of HeatTapePRO™ cable responds dynamically to changes in temperatures, asking for more power when it's cold and less when it's warm, translating into higher energy efficiency. HeatTapePRO™ cables are factory terminated with the patented GlowCap™, the worlds only intelligent end cap that allows users to quickly verify their cable is operating all the way to the end. Other standout features include an incredible 10-Year Warranty, robust 10 foot long power cord and injection molded connections and terminations. Use HeatTape-PRO™ for roof and gutter de-icing applications on any roof material at any slope. Coupled with our innovative family of installation accessories, the HeatTapePRO™ ecosystem is the most advanced roof de-icing system in the world.

Cable Construction

Outer Jacket	(A) TPE (Modified Polyolefin)
Ground Braid	(B) Tinned Copper
Inner Jacket	(C) Flame Resistant Thermoplastic
Core	(D) Self-Regulating Conductive Core
Bus Wires	(E) 16 Gauge Nickel-Plated Copper



Technical Data

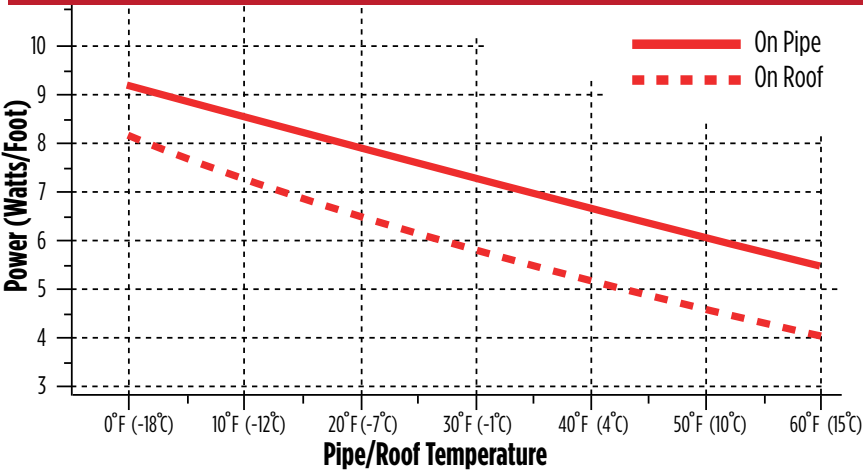
Maximum Exposure Temp*	185°F (85°C)
Average Cable Temp**	40°F - 100°F
Minimum Bending Radius	1 in (24mm)
Minimum Installation Temp	-40°F (-40°C)
Service Voltage	110v-120v
Dimensions	12mm x 6mm
Minimum Start-Up Temp	-40°F (-40°C)
Maximum Circuit Breaker Size	20A
Output Wattage	6w/ft @ 50°F on pipe

* Max temp of intermittent heat applied to un-energized cable
** Under normal operating conditions, heat cable will operate at somewhere between 40°F - 100°F

Key Features

- Injection molded power connection - No heat shrink tubing
- GlowCap™ LED end cap verifies power to the end of the cable. No more guessing
- Illuminated LED 120v plug shows if the cable is receiving power
- 14-gauge, 10 foot power cord (20% thicker and 50% longer than most competitors)
- For use on all standard roofing materials including asphalt, rubber, wood, synthetic, slate, metal and more. Approved for use on any slope
- Cables will not burn out or short if overlapped
- 16-gauge primary conductors embedded in conductive, self-regulating inner core
- Safe for use on both metal and plastic pipes
- 14 pre-terminated lengths from 6 feet to 150 feet (not including 10 foot power cord)

Output Chart





Bulk Cable On Spools

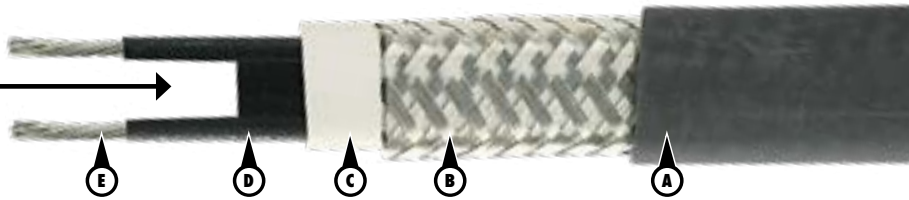
120v & 240v | 6w, 8w, 10w | 250', 500' & 1000'



HTP bulk cable is designed to provide a minimum of ten years of reliable service and carries one of the longest warranties in North America. Our spooled cable line has 6 watt, 8 watt and 10 watt per foot options in both 120 volts and 240 volts. In residential and commercial applications, uses include roof and gutter de-icing and pipe freeze protection. As the name suggests, this cable ‘self-regulates’, asking for more power in lower ambient temperatures and less power as surrounding temperatures rise. Use one of our UL-Listed connection kits to design unlimited system configurations. As with our pre-assembled heat cables, our bulk cable can be overlapped without risk of shorting or damaging the cable.

Cable Construction

Outer Jacket	Ⓐ TPE (Modified Polyolefin)
Ground Braid	Ⓑ Tinned Copper
Inner Jacket	Ⓒ Flame Resistant Thermoplastic
Core	Ⓓ Self-Regulating Conductive Core
Bus Wires	Ⓔ 16 Gauge Nickel-Plated Copper



Connection Kits

Radiant Solutions Company offers a family of UL-Listed termination and connection kits to create virtually unlimited heat cable system designs on cut-to-length applications. Our kits are made of the highest quality UL-Listed components, ensuring a hassle-free, long lasting outcome.

TSK-723

SPLICE & TEE KIT



Use this kit to splice two sections of cable together for a repair or to create a branch on your heat cable to extend in any direction.

HCK-M-1

POWER CONNECTION KIT



Used to terminate the end of the heat cable into a standard junction box and connect to a 120/240v power source.

ESK-215

END SEAL KIT



Creates a simple, permanent waterproof cap for the end of the heat cable.

GC-ESK-12

GLOWCAP END SEAL



Our popular ESK-215 end seal kit plus a factory-installed GlowCap™ on a 12 in piece of our 6HTP 12mm cable, used for terminating field installed 120v or 240v cable systems with a GlowCap™.

PPK-319

PLUG-IN POWER CONNECTION KIT



Ground fault protected plug-in power connection kit to connect 120v self-regulating heat cable to a 15amp outlet.

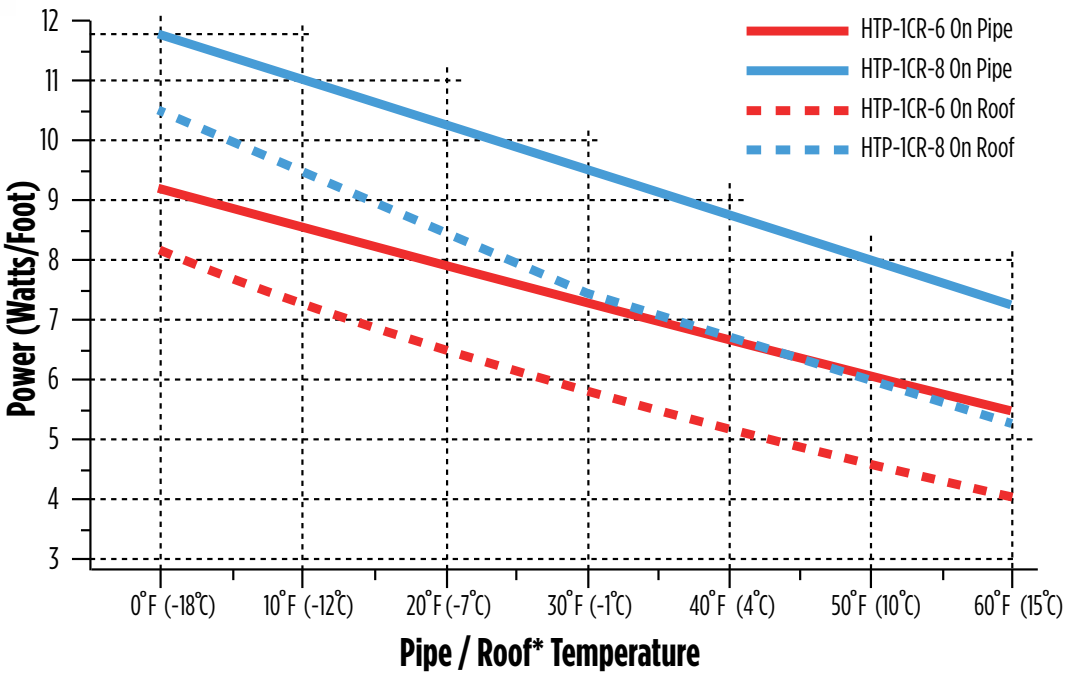


HTP Bulk Cable Charts

80% Rule

Keep in mind that the maximum allowable power draw on any circuit is 80% of the breaker's capacity. Therefore, a 20 amp breaker (either 120 volt or 240 volt) has a maximum load tolerance of 16 amps.

6HTP & 8HTP Wattage Output Chart



Max Cable Length vs. Circuit Breaker Size

Start-Up Temp	Breaker Size	6HTP 6 watts per Foot					8HTP 8 watts per Foot				10HTP 10 watts per Foot			
		Amps	120v	208v	240v	277v	120v	208v	240v	277v	120v	208v	240v	277v
0°F (-18°C)	15	113'	212'	226'	245'	100'	184'	200'	222'	80'	147'	160'	178'	
	20	150'	282'	301'	326'	130'	244'	265'	294'	110'	198'	215'	239'	
	30	226'	423'	451'	488'	200'	368'	400'	444'	160'	299'	325'	361'	
	40	279'	526'	561'	608'	210'	386'	420'	466'	180'	331'	360'	400'	
-20°F (-29°C)	15	99'	186'	198'	214'	85'	161'	175'	194'	70'	133'	145'	161'	
	20	132'	248'	264'	286'	115'	216'	235'	261'	95'	175'	190'	211'	
	30	198'	371'	395'	428'	175'	322'	350'	389'	145'	262'	285'	316'	
	40	264'	494'	527'	571'	210'	386'	420'	466'	180'	331'	360'	400'	
-40°F (-40°C)	15	88'	165'	176'	191'	80'	143'	155'	172'	60'	115'	125'	139'	
	20	117'	220'	235'	255'	105'	193'	210'	233'	85'	156'	170'	189'	
	30	176'	330'	352'	381'	155'	290'	315'	350'	125'	235'	255'	283'	
	40	235'	440'	469'	508'	210'	386'	420'	466'	170'	313'	340'	377'	

Notes:

1. Cable lengths (left) are for estimation only.
2. Breaker loading must be based on minimum start-up temperature, as the cable start-up current (or in-rush 'surge') increases as temperature decreases.
3. Expressed cable lengths (left) are the total length of cable that can be installed on a breaker without tripping either under start-up or operation conditions.
4. Do not exceed total maximum recommended cable lengths. More than one cable may be connected to a breaker but do not exceed maximum total recommended cable lengths shown in this table.

*Roof temperature refers to cable that is not in snow or ice. Power increases when cable is in snow/ice.



Roof Clips



Roof Clips



Clips, Clips, Clips! (and accessories)

If you have to put heat cable on it, we probably have the solution. If we don't, let us know. We're constantly on the search for new ideas.

Visit our website to see how all of our clips save you time and increase your profits!

Grip Clip™

IDP-325



Model	Dimensions	Qty
IDC-GPA-325	1.56"x3.39"x1.23"	5, 25 & 100 pk

Nail-free, fast and strong. GripClip™ 325 works on roofing from 1/8" - 1/4". Used for asphalt shingles including three-tab and dimensional designs. Works on ALL varieties of asphalt shingles

Grip Clip™

IDP-625



Model	Dimensions	Qty
IDC-GPA-625	1.56"x3.62"x1.23"	25 pk

Nail-free, fast and strong. GripClip™ 625 works on roofing from 3/8"-5/8" thick and is often used for wood shingles, synthetic slate and quadruple-laminated asphalt shingles

Grip Clip™

IDP-875



Model	Dimensions	Qty
IDC-GPA-875	1.56"x3.94"x1.23"	25 pk

Nail-free, fast and strong. GripClip™ 875 works on roofing from 1/2"-3/4" and is often used for heavy wood shakes and synthetic shakes such as CeDUR

Jumbo Glue-Down Roof Clip

DDK-719-2



Model	Dimensions	Qty
DDK-719-2	3.0"x3.0"x 1.14"	10 pk

Double-cradle clip with 200% more surface area than old-school nail-down clips. Use on virtually any material including asphalt shingles, metal, rubber, TPO and more. Use with SB-190 adhesive

Jumbo Glue-Down Roof Clip

DDK-719-1



Model	Dimensions	Qty
DDK-719-1	3.0"x3.0"x 1.14"	10 pk

Single-cradle clip with 200% more surface area than traditional nail-down clips. Use on virtually any material including asphalt shingles, metal, rubber, TPO and more. Use with SB-190 adhesive

Corrugated Roof Clip

JS-222



Model	Dimensions	Qty
JS-222	1.42"x2.8"x 1.65"	10 pk

Shaped to work on traditional corrugated and R-panel metal roofing, JS-222 creates solid, leak-proof anchor points for heat cable. Comes with butyl pads and self-tapping sheet metal screws

GVG Standing Seam Clip

GVG-325



Model	Dimensions	Qty
GVG-325	2.63"x3.5"x1.77"	10 pk

Screw or glue to standing seam metal roofs (screws included in box). Accommodates seams up to 3/8" wide. Can be used with the MKS-1022-2 Butyl pads for a waterproof connections

GVG Standing Seam Clip

GVG-50



Model	Dimensions	Qty
GVG-50	2.75"x3.5"x1.77"	10 pk

Screw or glue to standing seam metal roofs (screws included in box). Accommodates seams up to 1/2" wide. Can be used with the MKS-1022-2 Butyl pads for a waterproof connections

GVG Standing Seam Clip

GVG-625



Model	Dimensions	Qty
GVG-625	2.87"x3.5"x1.23"	10 pk

Screw or glue to standing seam metal roofs (screws included in box). Accommodates seams up to 5/8" wide. Can be used with the MKS-1022-2 Butyl pads for a waterproof connections

S5! Roof Clamp Clips

S5-SR



Model	Dimensions	Qty
S5-SR	1.53"x2.29"x1.18"	10 pk

Designed to work with S5S and S5N Standing seam metal roof clamps. Converts the popular S5! series of roof clamps into permanent, roof-safe heat cable attachment points

S5! Roof Clamp Clips

S5-SR-U



Model	Dimensions	Qty
S5-SR	1.53"x2.29"x1.18"	10 pk

The new elongated bolt slot creates greater install flexibility with a wider variety of roof clamps in the S5! family to create permanent, roof-safe heat cable attachment points

S5S Roof Clamp

S5S



Model	Dimensions	Qty
S5S	1.5"x2.0"x1.5"	5 pk, 30 pk

Use the S5S Roof Clamp on standing seam metal roofs with seam thickness up to .54". The set screw design creates a non-penetrating anchor point for heat cable when used with S5-SR clips

S5N Roof Clamp

S5N



Model	Dimensions	Qty
S5N	1.57"x2.0"x1.56"	5 pk, 30 pk

Fits all 1" nail strip metal roofs with rib dimensions of less than .82". The set screw design creates a non-penetrating anchor point for heat cable when used with S5-SR clips

Multi-Purpose Clip

MPC-325



Model	Dimensions	Qty
MPC-325	1.56"x2.0"x .47"	10 pk

Install cable in any direction you need. MPC-325 works on roofing from 1/8"-1/4" in addition to some metal flashings. Comes with a 6.5" UV-resistant cable tie

Nail-On Roof Clip

IDP-113



Model	Dimensions	Qty
IDP-113	1.53"x2.44"x 1.65"	25 pk, 50 pk

Nail or glue into position on a variety of surfaces including asphalt shingles, rubber, metal, etc.. These clips can be used with the MKS-1022-1 Butyl pads for waterproof connections



Small Butyl Rubber Pads
MKS-1022-1



Model	Dimensions	Qty
MKS-1022-1	.125"x1.81"x2.13"	10 pk

Custom sized butyl rubber pads for use with any standard nail-down roof clip. Place pads between the clip and the surface and secure with nails or screws for years of leak-free performance

Large Butyl Rubber Pads
MKS-1022-2



Model	Dimensions	Qty
MKS-1022-2	.125"x3.14"x3.14"	10 pk

Custom sized butyl rubber pads for use with our GVG and DDK roof clips. Place pads between the clip and the surface and secure with screws for years of leak-free performance

Slate Roof Clip
IDC-100



Model	Dimensions	Qty
IDC-100	.035"x16"x2.25"	1 pk

Slide clip under slate tiles to catch fastener in the nail slot. Normally works on slate roofs with exposures up to 10". 20 guage copper body with prongs that will never rust

Cable Separator Clips
RSC-555



Model	Dimensions	Qty
RSC-555	.06"x3.0"x39"	10 pk

Works with all cables up to 7mm thick by 13mm wide. RSC-555 is used in gutters and across flat or low-slope areas to keep cables consistently spaced for an optimal melting path

CableGuard™ Cable Protector
CG-24 & CG-300



Model	Dimensions	Qty
CG-24 & CG-300	.45"x.73"	1 pk

Protect heat cable against damage from sharp edges and points (think downspouts, flashings, screw points). Cut to length from our 24" or 25 foot lengths and simply pinch onto the cable.

Downspout Hanger
IDP-115



Model	Dimensions	Qty
IDP-115	.51" x 11" x 1.0"	1 pk

Protects cable where it makes the transition from the gutter into the downspout, where sharp edges and zip screws often damage cable jacketing and reduce system lifespan

ThermaCord™
TC-2000



Model	Dimensions	Qty
TC-2000	16" Long, 14AWG	1 pk

At last, a thermostatic controller that will fit inside code-required shrouded outdoor outlets! The ThermaCord™ automatically turns heat cables on and off (On @ 37°F, Off @ 50°F)

SureBond SB-190
SB-190



Model	Dimensions	Qty
SB-190	Standard Tube	1 pk, 12 pk

We sell this adhesive for a reason. We have tested it extensively with all of our glue-down clips and it is the best we have found. SureBond SB190 has a tensile strength of 2000lbs!

Fiberglass Tape
RSC-3M-420



Model	Dimensions	Qty
RSC-3M-420	.5" x 30 feet	1 pk

30 foot rolls of high-quality fiberglass tape. Used for installing PipeFreezePRO and HeatTapePRO™ on pipes for a wide variety of pipe freeze prevention applications

Below are the most common types of residential and commercial roofing systems in North America. Use this index to quickly determine which Radiant Solutions Company roof clip(s) work with each system. Refer to the instruction manuals and product specifications sheets for each of our accessories to determine the best approach to your project.

ASPHALT SHINGLE

STANDING SEAM

R-PANEL

CORRUGATED

FLAT ROOFS

FLAT SEAM METAL

SYNTHETIC SLATE

WOOD SHAKES

BATTEN SEAM

SYNTHETIC SHAKES

1

GPA-325

2

GPA-625

3

GPA-875

4

MPC-325

5

DDK-719-2

6

DDK-719-1

7

MKS-1022-1

8

MKS-1022-2

9

JS-222

10

SR-S5

11

SR-S5-U

12

S5 CLAMPS

13

GVG-325

14

GVG-50

15

GVG-625

16

IDP-113

17

IDP-100

Clip Adhesive:
We recommend using SureBond SB-190 adhesive for all glue-down applications



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