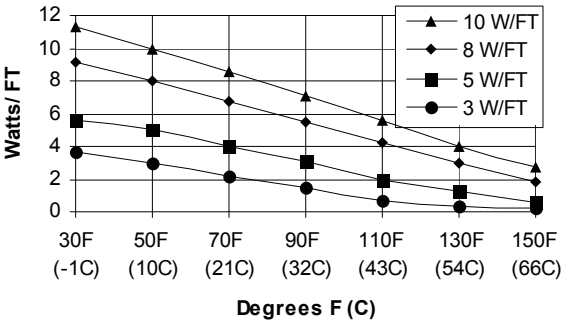
SELF REGULATING HEATING CABLE

Self-Regulating Heating Cable (SL Series)

BriskHeat

Self-Regulating Heating Cable (SL Series) provides effective heating for plastic or metal pipes. Applications range from freeze protection to low temperature process maintenance.

The heat output (watts per foot) of SL cable varies with temperature. Rated watts per foot are based on thermal output at 50°F (10°C). Please see the table below for the output at specific temperatures.

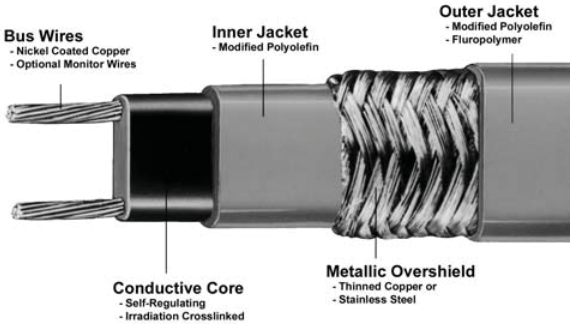


Watts per foot are based on a thermal output at 50°F (10°C).

Circuit Breaker vs. Heating Cable Length Selection Guide

Heat Cable Type	Circuit Breaker Size	Circuit Length at Start-up Temperature 50°F (10°C)	0°F (-20°C)	-20°F (-40°C)
SL-CAB-3-120	15 amp	300	200	180
	20 amp	330	270	230
	30 amp	-	330	330
SL-CAB-3-240	15 amp	660	410	360
	20 amp	-	560	480
	30 amp	-	660	660
SL-CAB -5-120	15 amp	230	150	130
	20 amp	270	200	175
	30 amp	-	270	260
	40 amp	-	-	270
SL-CAB -5-240	15 amp	460	300	260
	20 amp	540	400	345
	30 amp	-	540	520
	40 amp	-	-	540
SL-CAB -8-120	15 amp	150	95	85
	20 amp	200	125	100
	30 amp	210	190	170
	40 amp	-	210	210
SL-CAB -8-240	15 amp	295	195	170
	20 amp	390	250	225
	30 amp	420	375	340
	40 amp	-	420	420
SL-CAB -10-120	15 amp	115	70	60
	20 amp	150	95	85
	30 amp	180	145	120
	40 amp	-	180	165
SL-CAB -10-240	15 amp	230	150	130
	20 amp	305	200	175
	30 amp	360	300	260
	40 amp	-	360	360

Due to the variable power density of Self-Regulating cable, the current required at start up is greater than the running current. The start up current for Self-Regulating cable is drawn for longer than typical inrush current. Because of this, special consideration must be given to circuit breaker selection. Please see the Circuit Breaker vs. Heating Cable Length Selection Guide for proper circuit breaker selection.



SL Cable Part Number Selection Guide

SLCAB 3 120 B F

Self Regulating Cable

Watts/ ft (M):
3, 5, 8, 10 (9.8, 16.4, 26.2, 32.8)

Voltage:
120, 240

Tinned Copper Metal Braid

Optional Outer Jacket:

P= Thermoplastic Elastomer
For use in weak chemical environments. (i.e. weak acids).

F= Fluoropolymer,
For use in strong chemical environments (i.e. strong acids).

Also available with stainless steel overbraid and monitor wire. Please consult factory for price, delivery and minimum quantity.

Approvals:

- CSA
- FM APPROVED *Requires aluminum adhesive tape*:
  Ordinary Locations
  Hazardous Locations:
  Class I, Division 2, Groups B, C, & D
  Class II, Division 2, Groups F, & G
  Class III, Division 1 and 2
- T5 Rated
- UL

Specifications:

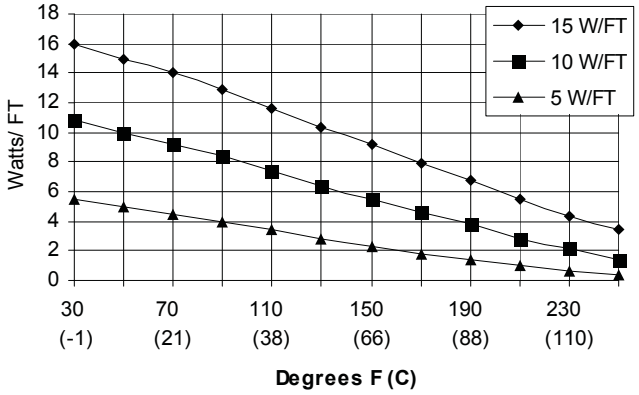
- Maximum exposure temperature is 150°F (66°C)
- Moisture and chemical resistant
- Flame resistant
- Radiation resistant
- 16AWG bus wires
- Dimensions 0.13" x 0.45" (3.30 x 11.43mm)
- 39.5 lb. (17.9 Kg) per 500-foot (152.4 M) spool

SELF REGULATING HEATING CABLE

BriskHeat® Mid-Temperature Self-Regulating Heating Cable (SLM Series)

Self-Regulating Mid-Temperature Heating Cable (SML Series) provides safe effective heating for plastic or metal pipes. Applications range from freeze protection to low temperature process maintenance.

The heat output (watts per foot) of SLM cable varies with temperature. Rated watts per foot are based on thermal output at 50°F (10°C). Please see the table below for the output at specific temperatures.

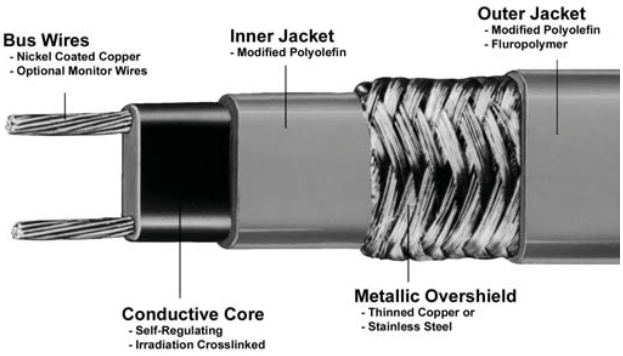


Watts per foot are based on a thermal output at 50°F (10°C).

Due to the variable power density of Self-Regulating cable, the current required at start up is greater than the running current. The start up current for Self-Regulating cable is drawn for longer than typical inrush current. Because of this, special consideration must be given to circuit breaker selection. Please see the Circuit Breaker vs. Heating Cable Length Selection Guide for proper circuit breaker selection.

Circuit Breaker vs. Heating Cable Length Selection Guide

Heat Cable Type	Circuit Breaker Size	Circuit Length at Start-up Temperature 50°F (10°C)	0°F (-20°C)	-20°F (-40°C)
SLM-CAB-5-120	15 amp	150	135	130
	20 amp	200	180	170
	30 amp	240	220	210
SLM-CAB-5-240	15 amp	250	230	220
	20 amp	330	305	295
	30 amp	480	440	420
SLM-CAB-10-120	15 amp	90	85	80
	20 amp	120	110	105
	30 amp	180	165	160
SLM--CAB 10-240	15 amp	140	130	125
	20 amp	190	175	170
	30 amp	280	260	250
SLM--CAB 15-120	15 amp	70	65	60
	20 amp	90	85	80
	30 amp	135	125	120
SLM--CAB 15-240	15 amp	100	95	90
	20 amp	135	125	120
	30 amp	200	185	180



SLM Cable Part Number Selection Guide

SLMCAB 5 120 B F

Self Regulating
Mid-Temperature Cable
Watts/ ft (M):
5, 10, 15 (16.4, 32.8, 49.2)
Voltage:
120, 240
Metal Braid
Optional Fluoropolymer Jacket

Also available with stainless steel overbraid and monitor wire.
Please consult factory for price, delivery and minimum quantity.

Approvals:

- CSA
- FM APPROVED *Requires aluminum adhesive tape*
  Ordinary Locations
  Hazardous Locations:
  Class I, Division 2, Groups B, C & D
  Class II, Division 2, Groups F
- T3 Rated
- UL

Specifications:

- Maximum exposure temperature is 250°F (121°C)
- Moisture and chemical resistant
- Flame resistant
- Radiation resistant
- 16AWG bus wires
- Dimensions 0.19” x 0.50” (4.83 x 12.70mm)
- 50.2 lb. (22.8 Kg.) per 500-foot (152.4 M) spool

SLCBL Connection / Termination Kits

For use in ordinary locations with SLCBL cable only (UL approved).
For use in roof & gutter snow melting & de-icing applications with SLCBL cable only (UL approved).

c UL US LISTED
Ordinary Locations

Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.

SLCBLUC: SLCBL Power Connection Kit

Kit Contents:
- 2 Heat-trace warning labels
- 2 De-icing snow melt caution labels
- 1 Standoff pipe mounting bracket
- 1 Lock nut
- 1 1/2"NPT Seal fitting with strain relief and grommet
- 3 Wire nuts
- 1 Black heat-shrink tube 1/2" x 1" (13mm x 25mm)
- 1 Green/Yellow heat-shrink tube 1/4" x 6" (6mm x 15cm)
- 2 Black heat-shrink tubes 1/8" x 5-1/2" (3mm x 14cm)
- 1 Sealing gasket
- 1 End seal

Enough to complete:
One input power connection and one end seal termination.
NOTE: Junction box and pipe strap sold seperately. Requires UL Listed junction box suitable fo the location with a clearance hole for 1/2" conduit or 1/2" NPT thread hub. For heating cable with no outer-jacket (Type -B only), a metallic junction box must be used to ensure proper grounding.

SLCBLUC-GF: Ground Fault Power Connection Kit

Kit Contents:
- 2 Heat-trace warning labels
- 2 De-icing snow melt caution labels
- 1 Cloth tape
- 2 Mastic strips
- 2 Clamp ties
- 2 Crimp-on insulated terminals
- 1 Crimp-on non-insulated barrel
- 1 Heat-shrink tube 3/4" x 8" (19mm x 20cm)
- 1 Heat-shrink tube 3/4" x 5" (19mm x 13cm)
- 2 Heat-shrink tubes 1/8" x 1" (3mm x 25mm)
- 1 Heat-shrink tube 1/2" x 1" (13mm x 25mm)
- 1 Heat-shrink tube 5/16" x 1-1/2" (8mm x 38mm)
- 1 Ground fault device with 120V 3-Prong NEMA 5-15 plug

Enough to complete:
One ground-fault protection power input power connection.

SLCBLKC: SLCBL End Seal Kit

Kit Contents:
- 2 Heat-shrink caps
- 2 Heat-shrink tubes 3/4" x 5" (19mm x 13cm)
- 2 Woven braid sleeves 1/2" x 4" (13mm x 10cm)

Enough to complete:
Two end seal terminations.

SLCBLSK: SLCBL Splice and Tee Kit

Kit Contents:
- 1 Clamp tie
- 3 Cable ties
- 1 Cloth tape
- 5 Mastic strips
- 2 Heat-shrink caps
- 1 Black heat-shrink tube 1" x 8" (25mm x 20cm)
- 3 Black heat-shrink tubes 1/2" x 1" (13mm x 25mm)
- 6 Black heat-shrink tubes 1/8" x 1" (3mm x 25mm)
- 1 Heat-shrink tube
- 2 Crimp-on insulated terminals
- 1 Crimp-on non-insulated barrel
- 1 End seal

Enough to complete:
One splice connection and one end seal termination or one tee connection and one end seal termination.
NOTE: This kit does not complete an input power connection.

SLCBL, SLMCBL, SLHCBL Connection / Termination Kits

For use in Hazardous Area Locations with SLCBL cable only (CSA approved).
For use in non-hazardous area locations with SLCBL, SLMCBL, SLHCBL cable (non-CSA approved).

C US

Hazardous (Classified) Locations
Class I, Division 2, Groups A, B, C, D
Class II, Division 2, Groups E, F, G
Class III
-BP, -BF Series Only

Approvals valid only when used with appropriate heating cable and installation accessories, and installed in accordance with all applicable instructions, codes, and regulations.

PTBO-GET: SLCBL, SLMCBL, SLHCBL Power Connection Kit With Octagon Enclosure

Kit Contents:
1 Octagon junction box with rail mounted DIN terminal block electrical connections
1 Pipe standoff mounting bracket
2 Pipe Straps
1 Lock nut
1 Sealing gasket
1 M25x1.5 IP68 Seal fitting
2 Watertight sealing grommets
1 Watertight sealing plug
1 Green/Yellow heat-shrink tube 1/4" x 6" (6mm x 15cm)
2 Black heat-shrink tube 1/8" x 5-1/2" (3mm x 14cm)

Enough to complete:
One input power connection.

JHE-GET: SLCBL, SLMCBL, SLHCBL Low-Profile End Seal Kit

Kit Contents:
1 End seal housing
1 Watertight sealing grommet
1 Pressure seal end with screws

Enough to complete:
One low-profile end seal termination.

JHS-GET: SLCBL, SLMCBL, SLHCBL Low-Profile Splice Connection Kit

Kit Contents:
1 In-line splice housing
2 Watertight sealing gaskets
2 Housing covers with screws
2 Watertight sealing grommets
2 Pressure seal ends with screws

Enough to complete:
One low-profile splice connection.

JHT-GET: SLCBL, SLMCBL, SLHCBL Low-Profile Tee Connection Kit

Kit Contents:
1 Tee splice housing
2 Watertight sealing gaskets
2 Housing covers with screws
3 Watertight sealing grommets
3 Pressure seal ends with screws

Enough to complete:
One low-profile tee connection.
NOTE: This kit does not complete an input power connection.

SELF REGULATING HEATING CABLE

Self-regulating heating cable provides safe, reliable heat tracing for freeze protection of pipes, valves, tanks and similar applications. The 150ºF (65ºC) maximum pipe maintenance temperature rating is also suitable for certain process applica-tions. Can be used in hazardous as well as certain corrosive areas.

CONSTRUCTION

1. **Bus wires -** Twin 16 AWG copper bus wires
2. **Matrix,** A polymer core whose resistance varies with temp. When process temp drops, heat output Increases.
3. **Thermoplastic Jacket.** Excellent water, Mild chemicals resistance.

OPTIONAL

- Copper Braid Overbraid. Mechanical protection and ground path
- TPR Overcoat over-braid. For hostile and corrosive environments.

FEATURES

- Saves energy. Will throttle back as temperature increases. - Cut to desired length. Field splices can be performed.
- Low Installation costs.Termination, splice and tee kits available.
- Suitable In hazardous areas.
- Maximum Pipe Maintenance Temperature - 150ºF
- Maximum Exposure Temperature - 185ºF

NOTES: Add Suffix C-Copper Brald CR-TPR Overjacket

HEAT TRACE CABLE - Custom Specification Sheet

Company _____City_____

Contact _____ Phone_____ Email_____

Max Operating Temp _____F_____C

WIDTH_____in_____mm **LENGTH**_____in_____mm **Watt**_____ **Volts**_____ **1PH/3PH**_____

Qty _____ Date Required : ❑ 1day ❑ 1week ❑ 2week

CONSTRUCTION:

❑ CS ❑ CH (need DWG) ❑ CB (need DWG) ❑ CL (need DWG) ❑ CU (need DWG)

STEEL BACKPLATE:

❑ 1/8"Thick ❑ 3/16"Thick ❑ 1/4"Thick

ELECTRICAL TERMINATION

Post Terminals ❑ SN1 ❑ SN2 ❑ SN3 ❑ SN4 ❑ Ceramic Caps

Leadwire ❑ SL1 ❑ SL4 ❑ SB1 ❑ SB4 ❑ SC4

❑ TGGT (482°F/250°C) ❑ MGT(900°F/450°C) LENGTH_____

❑ S/S Overbraid ❑ S/S Armour LENGTH_____LOCATION_____

Terminal Box ❑ TB2(2 Terminal) ❑ TB3(3 Terminal) LOCATION(need DWG)

Euro Plug ❑ EP(standard) ❑ EPB(in BOX) LOCATION(need DWG)

HOLES (need sketch)