

## SLCBL Self-Regulating Heating Cable

### Product Highlights

- ✓ Ideal for freeze protection and low temperature process maintenance up to 149°F (65°C)
- ✓ Automatically adjusts heat output based on surface temperature
- ✓ Safe to overlap and insulate
- ✓ Can be cut-to-length and terminated in the field
- ✓ No temperature controller is required\*
  - \* If a specific process temperature is required, a temperature controller is necessary.

### Specifications:

- Maximum continuous maintenance temperature: 149°F (65°C)
- Maximum intermittent exposure temperature: 185°F (85°C)
- Minimum intermittent exposure temperature: -40°F (-40°C)
- Nominal power output at 50°F (10°C): 3, 5, 8, 10, 12 W/ft (10, 17, 25, 31, 40 W/m)
- Supply voltages (AC): 110-120V or 208-277V
- Moisture, chemical, and flame resistant
- Bus wire gauge: 16 AWG
- Braid resistance: Tinned copper 0.0055 ohms/ft (0.0182 ohms/m)
- T6 Rating - 3, 5, 8, 10 W/ft (10, 17, 25, 31 W/m)
- T5 Rating - 12 W/ft (40 W/m)

NOTE: Electrical equipment T-Rating codes define the maximum surface temperature that equipment will reach. It is used in hazardous (classified) area applications.



### Outer Layer Options:

Product Type	Description	Nominal Dimensions	Shipping Weight 500-ft (152m) spool	Purpose
SLCBL-B	Tinned Copper Metal Braid	0.17" x 0.43" (4.4mm x 11.0mm)	35 lb. (16 kg)	Ordinary applications
SLCBL-BP	Tinned Copper Metal Braid with Thermoplastic Elastomer Overjacket	0.23" x 0.50" (6.0mm x 12.6mm)	46 lb. (21 kg)	For use in wet or weak chemical environments (i.e. weak acids)
SLCBL-BF	Tinned Copper Metal Braid with Fluoropolymer Overjacket	0.21" x 0.47" (5.4mm x 12.0mm)	44 lb. (20 kg)	For use in strong chemical environments (i.e. strong acids)

### Ordering Information:

#### Part Number Matrix

SLCBL 3 120 BP

Watts/ft: \_\_\_\_\_  
3, 5, 8, 10, 12

Voltage: \_\_\_\_\_  
120- (110-120V), 240- (208-277V)

Outer Layer: \_\_\_\_\_  
B- (Tinned Copper Metal Braid)  
BP- (Tinned Copper Metal Braid with Thermoplastic Elastomer Overjacket)  
BF- (Tinned Copper Metal Braid with Fluoropolymer Overjacket)

### Approvals:

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

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

See Page 10 & 11 for power connection/termination kits.

## SLCBL Self-Regulating Heating Cable *continued*

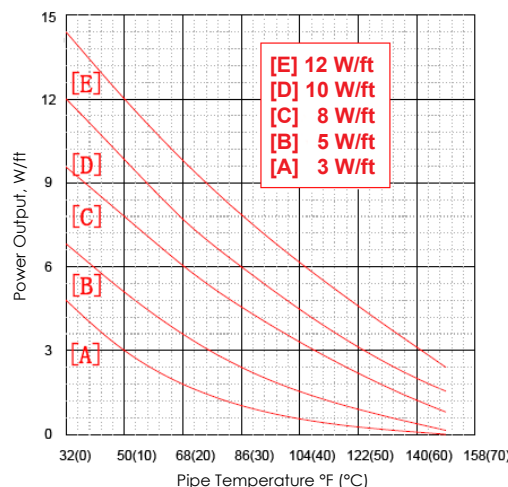
### Specification / Application Information:

#### Maximum Circuit Length in Feet Vs. Circuit Breaker Size

Heat Cable Type	Circuit Breaker Size	Start-up Temperature			
		50°F (10°C)	32°F (0°C)	-4°F (-20°C)	-40°F (-40°C)
SLCBL3120	10 amp	240	200	140	115
	15 amp	320	300	220	190
	20 amp	330	320	265	225
	30 amp	330	320	280	265
	40 amp	330	320	280	265
SLCBL3240	10 amp	485	396	275	232
	15 amp	643	606	436	377
	20 amp	660	643	530	449
	30 amp	660	643	557	530
	40 amp	660	643	557	530
SLCBL5120	10 amp	162	135	105	80
	15 amp	249	215	170	127
	20 amp	265	252	215	164
	30 amp	265	252	240	200
	40 amp	265	252	240	200
SLCBL5240	10 amp	324	269	209	160
	15 amp	498	429	337	255
	20 amp	530	505	433	328
	30 amp	530	505	480	400
	40 amp	530	505	480	400
SLCBL8120	10 amp	123	100	54	52
	15 amp	177	145	90	82
	20 amp	200	180	115	103
	30 amp	210	180	175	135
	40 amp	210	180	175	160
SLCBL8240	10 amp	246	203	108	104
	15 amp	354	291	183	164
	20 amp	406	360	229	206
	30 amp	420	360	350	275
	40 amp	420	360	350	320
SLCBL10120	10 amp	75	55	45	35
	15 amp	121	85	65	55
	20 amp	150	105	80	70
	30 amp	155	120	105	85
	40 amp	180	155	105	105
SLCBL10240	10 amp	147	111	85	68
	15 amp	242	177	131	114
	20 amp	295	216	164	141
	30 amp	315	246	215	170
	40 amp	360	315	215	215
SLCBL12120	10 amp	55	40	30	25
	15 amp	90	60	45	45
	20 amp	115	80	60	50
	30 amp	115	90	80	60
	40 amp	120	105	80	80
SLCBL12240	10 amp	111	78	59	49
	15 amp	183	124	91	85
	20 amp	229	160	124	98
	30 amp	229	180	158	120
	40 amp	240	210	158	158

**Note: Special consideration must be given for the circuit breaker due to the high initial in-rush currents.**

#### Heat Output (Watts per Foot)



#### Voltage Adjustment Factors

Product Type	Watt/ft Adjustment Factor	
	208 VAC	277 VAC
SLCBL3240	0.82	1.13
SLCBL5240	0.85	1.12
SLCBL8240	0.89	1.08
SLCBL10240	0.89	1.08
SLCBL12240	0.89	1.08

Product Type	Max Circuit Length Adjustment Factor	
	208 VAC	277 VAC
SLCBL3240	0.96	1.08
SLCBL5240	0.94	1.09
SLCBL8240	0.92	1.11
SLCBL10240	0.92	1.11
SLCBL12240	0.92	1.11