

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.

SLCBL Self-Regulating Heating Cable *continued*

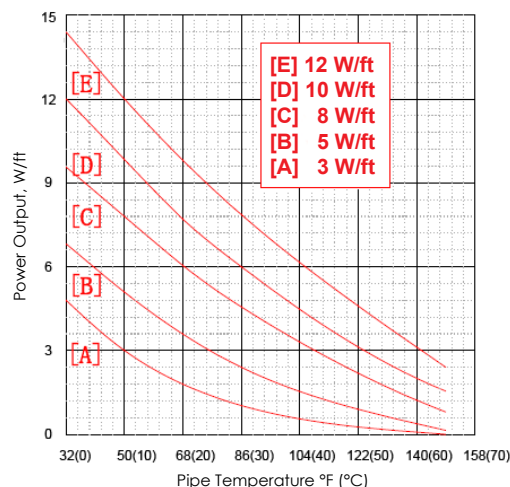
Specification / Application Information:

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 |