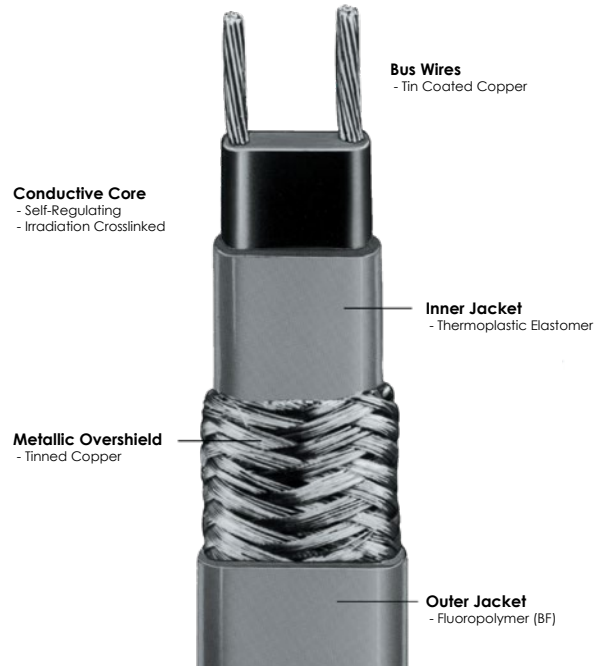


# SLHCBL

## SLHCBL High-Temperature Self-Regulating Heating Cable

### Product Highlights

- ✓ Ideal for freeze protection and low temperature process maintenance up to 248°F (120°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: 248°F (120°C)
- Maximum intermittent exposure temperature: 392°F (200°C)
- Minimum intermittent exposure temperature: -22°F (-30°C)
- Nominal power output at 50°F (10°C): 5, 10, 15, 20 W/ft (15, 30, 45, 60 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)

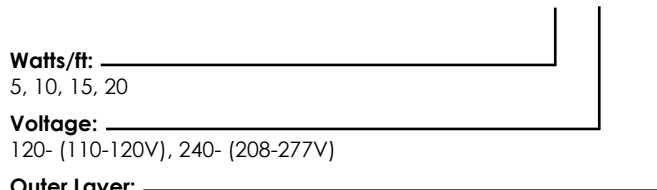
### Outer Layer Options:

| Product Type | Description   | Nominal Dimensions             | Shipping Weight:<br>500-ft (152m) spool | Purpose   |
|--------------|---|--------------------------------|---|---|
| SLHCBL-B     | Tinned Copper Metal Braid                               | 0.15" x 0.45" (3.8mm x 11.4mm) | 38 lb. (17 kg)                          | Ordinary applications                                       |
| SLHCBL-BF    | Tinned Copper Metal Braid with Fluoropolymer Overjacket | 0.19" x 0.49" (4.8mm x 12.4mm) | 47 lb. (21.2 kg)                        | For use in strong chemical environments (i.e. strong acids) |

### Ordering Information:

#### Part Number Matrix

SLHCBL 5 120 BF



Watts/ft: \_\_\_\_\_  
5, 10, 15, 20

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

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

### Approvals:



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## SLHCBL High-Temperature Self-Regulating Heating Cable *continued*

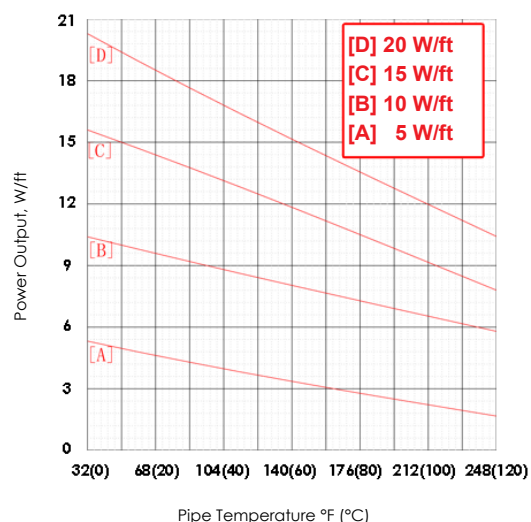
### Specification / Application Information:

#### 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) |
| SLHCBL5120      | 10 amp               | 120                  | 110        | 105          | 90            |
|                 | 15 amp               | 180                  | 175        | 158          | 143           |
|                 | 20 amp               | 240                  | 215        | 190          | 180           |
|                 | 30 amp               | 259                  | 245        | 240          | 225           |
|                 | 40 amp               | 266                  | 255        | 250          | 240           |
| SLHCBL5240      | 10 amp               | 240                  | 220        | 210          | 180           |
|                 | 15 amp               | 360                  | 350        | 315          | 285           |
|                 | 20 amp               | 479                  | 430        | 380          | 360           |
|                 | 30 amp               | 518                  | 490        | 480          | 450           |
|                 | 40 amp               | 531                  | 510        | 500          | 480           |
| SLHCBL10120     | 10 amp               | 73                   | 69         | 65           | 58            |
|                 | 15 amp               | 118                  | 110        | 98           | 88            |
|                 | 20 amp               | 148                  | 140        | 130          | 118           |
|                 | 30 amp               | 220                  | 200        | 182          | 175           |
|                 | 40 amp               | 255                  | 240        | 220          | 230           |
| SLHCBL10240     | 10 amp               | 146                  | 138        | 130          | 116           |
|                 | 15 amp               | 236                  | 220        | 195          | 175           |
|                 | 20 amp               | 295                  | 280        | 260          | 235           |
|                 | 30 amp               | 440                  | 400        | 364          | 350           |
|                 | 40 amp               | 510                  | 480        | 440          | 460           |
| SLHCBL15120     | 10 amp               | 50                   | 47         | 42           | 40            |
|                 | 15 amp               | 75                   | 65         | 63           | 60            |
|                 | 20 amp               | 100                  | 90         | 83           | 80            |
|                 | 30 amp               | 143                  | 135        | 125          | 120           |
|                 | 40 amp               | 190                  | 175        | 168          | 160           |
| SLHCBL15240     | 10 amp               | 100                  | 93         | 83           | 80            |
|                 | 15 amp               | 150                  | 130        | 125          | 120           |
|                 | 20 amp               | 200                  | 180        | 165          | 160           |
|                 | 30 amp               | 285                  | 270        | 250          | 240           |
|                 | 40 amp               | 380                  | 350        | 335          | 320           |
| SLHCBL20120     | 10 amp               | 39                   | 33         | 34           | 32            |
|                 | 15 amp               | 58                   | 55         | 50           | 48            |
|                 | 20 amp               | 75                   | 71         | 68           | 63            |
|                 | 30 amp               | 115                  | 105        | 100          | 95            |
|                 | 40 amp               | 153                  | 143        | 133          | 125           |
| SLHCBL20240     | 10 amp               | 77                   | 70         | 67           | 63            |
|                 | 15 amp               | 115                  | 110        | 100          | 95            |
|                 | 20 amp               | 150                  | 142        | 135          | 125           |
|                 | 30 amp               | 230                  | 210        | 200          | 190           |
|                 | 40 amp               | 306                  | 286        | 265          | 250           |

**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

| Watt/ft Output Adjustment Factor |         |         |
|----------------------------------|---------|---------|
| Product Type                     | 208 VAC | 277 VAC |
| SLHCBL5240                       | 0.87    | 1.07    |
| SLHCBL10240                      | 0.88    | 1.08    |
| SLHCBL15240                      | 0.88    | 1.08    |
| SLHCBL20240                      | 0.86    | 1.07    |

| Max Circuit Length Adjustment Factor |         |         |
|--------------------------------------|---------|---------|
| Product Type                         | 208 VAC | 277 VAC |
| SLHCBL5240                           | 0.99    | 1.08    |
| SLHCBL10240                          | 0.99    | 1.06    |
| SLHCBL15240                          | 0.98    | 1.06    |
| SLHCBL20240                          | 1.00    | 1.08    |

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