

SLCAB SELF-REGULATING HEATING CABLE

- ▶ Ideal for freeze protection and low-temperature process maintenance up to 150°F (65°C)
- ▶ Automatically adjusts heat output based on surface and ambient temperatures
- ▶ Safe to overlap and insulate
- ▶ Moisture, chemical, and flame resistant
- ▶ Can be cut-to-length and terminated in the field

Specifications

Maximum Continuous Maintenance Temperature: 150°F (65°C)

Intermittent Exposure Temperature Range: -20°F to 185°F (-29°C to 85°C)

Supply Voltage: 110-120 VAC or 208-277 VAC

Nominal Power Output at 50°F (10°C):

- 3, 5, 8, 10 watts/ft (10, 16, 26, 33 watts/m)
- For 208 and 277 VAC, adjust watts shown for the 240 VAC cable using the Voltage Adjustment Factors chart

Bus Wires: 16 AWG nickel coated copper wire

Braid Resistance:

- Tinned copper: 0.003 Ω/ft (0.009 Ω/m)
- Stainless steel: 0.125 Ω/ft (0.410 Ω/m)

Bend Radius: 0.5 in (12 mm)



Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 1[†] and 2, Groups B, C, D
Class II, Division 2, Groups F, G
Class III, Division 1 and 2
3, 5, 8 watts/ft T6
10 watts/ft T5



Ordinary Locations 2E^{††}, 3(A,B,C), 5(A,B)
Hazardous (Classified) Locations
Class I, Division 1 and 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III, Division 1 and 2
3, 5, 8 watts/ft T6
10 watts/ft T5



Hazardous Locations
II 2GD Gb
Ex e IIC T^{**}
Ex tb IIIC T^{**} °C Db
^{**}3, 5, 8 watts/ft T5/T85°C
^{**}10 watts/ft T4/ T100°C



Hazardous Locations
Ex e IIC T^{**} II 2 Gb
Ex tb IIIC T^{**} °C Db
^{**}3, 5, 8 watts/ft T5/T85°C
^{**}10 watts/ft T4/ T100°C



**Moisture
& Chemical
Resistant**



**Temperatures
Up to
150°F (65°C)**

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

[†]CI/D1 approval for BF1 only. Contact a BriskHeat representative for information on Division I hazardous location systems.

Outer Layer Options

Part No.	Description	Nominal Dimensions [thickness x width] in (mm)	Shipping Weight: Per 500-ft (152 m) spool	Purpose
SLCAB-B	Tinned Copper Metal Braid	0.2 x 0.4 (6 x 11)	40 (18)	For use in dry environments
SLCAB-BP	Tinned Copper Metal Braid with Thermoplastic Polyolefin Overjacket	0.3 x 0.6 (7 x 15)	48 (22)	For use in wet or weak chemical environments (i.e. weak acids)
SLCAB-BF	Tinned Copper Metal Braid with Fluoropolymer Overjacket	0.3 x 0.6 (7 x 15)	48 (22)	For use in strong chemical environments (i.e. strong acids)
SLCAB-SS	Stainless Steel Metal Braid	0.2 x 0.4 (6 x 11)	40 (18)	More resistant to rust and corrosion than Tinned Copper Metal braid.

SLCAB SELF-REGULATING HEATING CABLE

Maximum Circuit Length in ft (m)

Heat Cable Type	Circuit Breaker Size	Start-up Temperature		
		50°F (10°C)	0°F (-18°C)	-20°F (-29°C)
SLCAB3120	15 amp	300 (91)	200 (61)	180 (55)
	20 amp	-	270 (82)	230 (70)
	30 amp	-	330 (100)	330 (100)
SLCAB3240	15 amp	660 (201)	410 (125)	360 (110)
	20 amp	-	560 (171)	480 (146)
	30 amp	-	660 (201)	660 (201)
SLCAB5120	15 amp	230 (70)	150 (46)	130 (40)
	20 amp	270 (82)	200 (61)	175 (53)
	30 amp	-	270 (82)	260 (79)
SLCAB5240	15 amp	460 (140)	300 (91)	260 (79)
	20 amp	540 (164)	400 (122)	345 (105)
	30 amp	-	540 (164)	520 (158)
SLCAB8120	15 amp	150 (46)	95 (29)	85 (26)
	20 amp	200 (61)	125 (38)	100 (30)
	30 amp	210 (64)	190 (58)	170 (52)
	40 amp	-	210 (64)	210 (64)
SLCAB8240	15 amp	295 (90)	195 (59)	170 (52)
	20 amp	390 (119)	250 (76)	225 (68)
	30 amp	420 (128)	375 (114)	340 (104)
	40 amp	-	420 (128)	420 (128)
SLCAB10120	15 amp	115 (35)	70 (21)	60 (18)
	20 amp	150 (46)	95 (29)	85 (26)
	30 amp	180 (55)	145 (44)	120 (36)
	40 amp	-	180 (55)	165 (50)
SLCAB10240	15 amp	230 (70)	150 (46)	130 (40)
	20 amp	305 (93)	200 (61)	175 (53)
	30 amp	360 (110)	300 (91)	260 (79)
	40 amp	-	360 (110)	360 (110)

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

Ordering Information

Part Number Matrix

SLCAB	3	120	BF
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Watts/ft: _____

3, 5, 8, 10

Voltage: _____

120- (110 - 120 VAC), 240- (208 - 277 VAC)

Outer Layer: _____

B- (Tinned Copper Metal Braid)

BP- (Tinned Copper Metal Braid with Thermoplastic Polyolefin)

BF- (Tinned Copper Metal Braid with Fluoropolymer Overjacket)

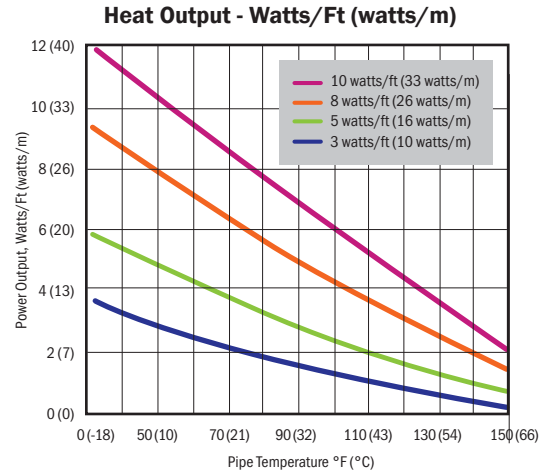
SS- (Stainless Steel Metal Braid)

Class I, Division 1 Cable: _____

BF1- (Tinned Copper Metal Braid with Fluoropolymer Overjacket)

Voltage Adjustment Factor

Product Type	Output Adjustment Factor	
	208 VAC	277 VAC
SLCAB3240	0.75	1.28
SLCAB5240	0.86	1.16
SLCAB8240	0.91	1.10
SLCAB10240	0.93	1.08



Component	Page No.
Power Connection/Termination Kits	40
Monitor Light Kits	32
Insulation	54
Temperature Controls	145