

SLMCBL MID-TEMPERATURE SELF-REGULATING HEATING CABLE

Features & Benefits

- ▶ Ideal for freeze protection and mid temperature process maintenance up to 230 °F (110 °C)
- ▶ Automatically adjusts heat output based on surface temperature
- ▶ Safe to overlap and insulate
- ▶ Can be cut-to-length and terminated in the field
- ▶ Moisture, chemical, and flame resistant

Specifications

Maximum Continuous Maintenance Temperature: 230°F (110°C)

Intermittent Exposure Temperature Range: -22°F to 275°F (-30°C to 135°C)

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

Nominal Power Output at 50°F (10°C):

- 5, 10, 15, 20 watts/ft, (16, 33, 49, 66 watts/m)
- For 208 and 277 VAC, adjust watts shown for the 240 VAC cable using the Voltage Adjustment Factors chart

Bus Wire Gauge: 16 AWG

Braid Resistance: Tinned copper 0.0055 ohms/ft (0.0182 ohms/m)

Bend Radius: 0.5 in (12 mm)

Ordering Information

Part Number Matrix

SLMCBL	5	120	BP
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Watts/Ft: _____

5, 10, 15, 20

Voltage: _____

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

Outer Layer: _____

B- (Tinned Copper Metal Braid)

BP- (Tinned Copper Metal Braid with Thermoplastic Elastomer Overjacket)

BF- (Tinned Copper Metal Braid with Fluoropolymer Overjacket)



Moisture & Chemical Resistant



Temperatures Up to 230 °F (110 °C)

Complete Your System with

Component	Image	Page No.
Power Connection/Termination Kits		33
Monitor Light Kits		32
Insulation		54
Temperature Controls		145

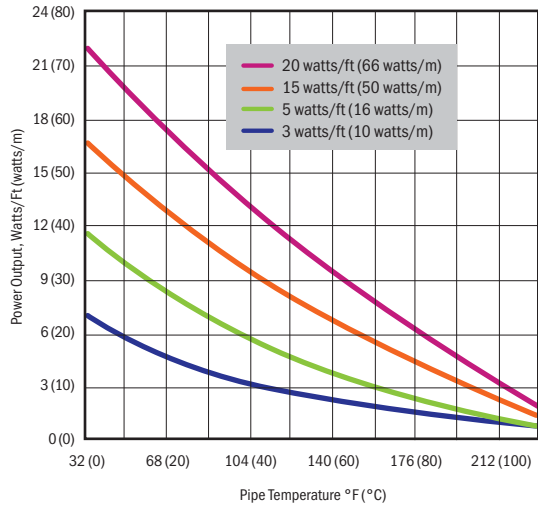
SLMCBL MID-TEMPERATURE SELF-REGULATING HEATING CABLE

Maximum Circuit Length in ft (m)

Heating Cable	Circuit Breaker Size	Start-up Temperature			
		50°F (10°C)	32°F (0°C)	-4°F (-20°C)	-40°F (-40°C)
SLMCBL5120	10 amp	110 (34)	80 (24)	-	-
	15 amp	133 (41)	105 (32)	98 (30)	90 (27)
	20 amp	195 (59)	160 (49)	148 (45)	138 (42)
	30 amp	210 (64)	195 (59)	170 (52)	165 (50)
	40 amp	210 (64)	195 (59)	183 (56)	180 (55)
SLMCBL5240	10 amp	220 (67)	160 (49)	145 (44)	135 (41)
	15 amp	265 (81)	210 (64)	195 (59)	180 (55)
	20 amp	390 (119)	320 (98)	295 (90)	275 (84)
	30 amp	420 (128)	390 (119)	365 (111)	360 (110)
	40 amp	420 (128)	390 (119)	340 (104)	330 (101)
SLMCBL10120	10 amp	75 (23)	73 (22)	-	-
	15 amp	100 (31)	95 (29)	80 (24)	70 (21)
	20 amp	133 (41)	148 (45)	125 (38)	100 (31)
	30 amp	174 (53)	180 (55)	156 (48)	130 (40)
	40 amp	174 (53)	175 (53)	156 (48)	140 (43)
SLMCBL10240	10 amp	150 (46)	145 (44)	121 (37)	114 (35)
	15 amp	200 (61)	190 (58)	160 (49)	140 (43)
	20 amp	265 (81)	295 (90)	249 (76)	200 (61)
	30 amp	347 (106)	360 (110)	311 (95)	280 (85)
	40 amp	347 (106)	350 (107)	311 (95)	260 (79)
SLMCBL15120	10 amp	57 (17)	51 (16)	-	-
	15 amp	94 (29)	87 (27)	57 (17)	54 (17)
	20 amp	120 (37)	108 (33)	71 (22)	69 (21)
	30 amp	154 (47)	133 (41)	80 (24)	80 (24)
	40 amp	154 (47)	133 (41)	90 (27)	87 (27)
SLMCBL15240	10 amp	114 (35)	101 (31)	68 (21)	65 (20)
	15 amp	187 (57)	173 (53)	114 (35)	108 (33)
	20 amp	239 (73)	216 (66)	141 (43)	137 (42)
	30 amp	308 (94)	265 (81)	180 (55)	173 (53)
	40 amp	308 (94)	265 (81)	160 (49)	160 (49)
SLMCBL20120	10 amp	51 (16)	41 (13)	-	-
	15 amp	82 (25)	72 (22)	51 (16)	49 (15)
	20 amp	102 (31)	90 (27)	67 (20)	61 (19)
	30 amp	131 (40)	115 (35)	84 (26)	74 (23)
	40 amp	150 (46)	128 (39)	110 (34)	95 (29)
SLMCBL20240	10 amp	101 (31)	82 (25)	62 (19)	55 (17)
	15 amp	164 (50)	144 (44)	101 (31)	98 (30)
	20 amp	203 (62)	180 (55)	134 (41)	121 (37)
	30 amp	262 (80)	229 (70)	167 (51)	147 (45)
	40 amp	300 (91)	255 (78)	220 (67)	190 (58)

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

Heat Output – Watts/Ft (watts/m)



Outer Layer Options

Product Type	Description	Nominal Dimensions [thickness x width] in (mm)	Shipping Weight: 500 ft (152 m) spool lbs (kg)	Purpose
SLMCBL-B	Tinned Copper Metal Braid	0.15 x 0.45 (3.8 x 11.4)	32 (15)	Dry Environments
SLMCBL-BP	Tinned Copper Metal Braid with Thermoplastic Elastomer Overjacket	0.23 x 0.54 (6.0 x 13.6)	37 (17)	Wet or Weak Chemical Environments
SLMCBL-BF	Tinned Copper Metal Braid with Fluoropolymer Overjacket	0.19 x 0.49 (4.8 x 12.4)	47 (21)	Wet or Harsh Chemical Environments

Voltage Adjustment Factors

Product Type	Watt/ft Output Adjustment Factor	
	208 VAC	277 VAC
SLMCBL5240	0.84	1.20
SLMCBL10240	0.85	1.18
SLMCBL15240	0.91	1.09
SLMCBL20240	0.90	1.07

Product Type	Max Circuit Length Adjustment Factor	
	208 VAC	277 VAC
SLMCBL5240	0.95	1.04
SLMCBL10240	0.94	1.06
SLMCBL15240	0.91	1.10
SLMCBL20240	0.91	1.11