

CONSTANT-WATTAGE HEATING CABLE

HARSH ENVIRONMENT CONSTANT-WATTAGE HEATING CABLE

- ▶ **Temperatures up to 500 °F (260 °C)**
- ▶ **Power remains constant regardless of temperature**
- ▶ **Moisture, chemical, flame, and radiation resistant**
- ▶ **Can be cut-to-length at job site**
- ▶ **Ideal for a wide range of applications in corrosive environments:**
 - Freeze protection
 - Viscosity control
 - High temperature process control
 - Asphalt plants
 - Oil refineries
 - Mines
 - Chemical and petrochemical processing areas
 - Other explosive and corrosive atmospheres
 - Severe arctic cold


Specifications:

Maximum Exposure Temperature: -22°F to 500°F (-30°C to 260°C)

Minimum Bend Radius: 1.0 in (25 mm)

Bus Wires: 12 AWG bus wires

Dimensions: 0.2 in x 0.3 in (5 mm x 8 mm)

 Ordinary Locations
 Hazardous Locations:
 Class I, Division 2, Groups B, C, & D
 Class II, Division 2, Groups F, & G
 Class III, Division 2

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

Ordering Information:

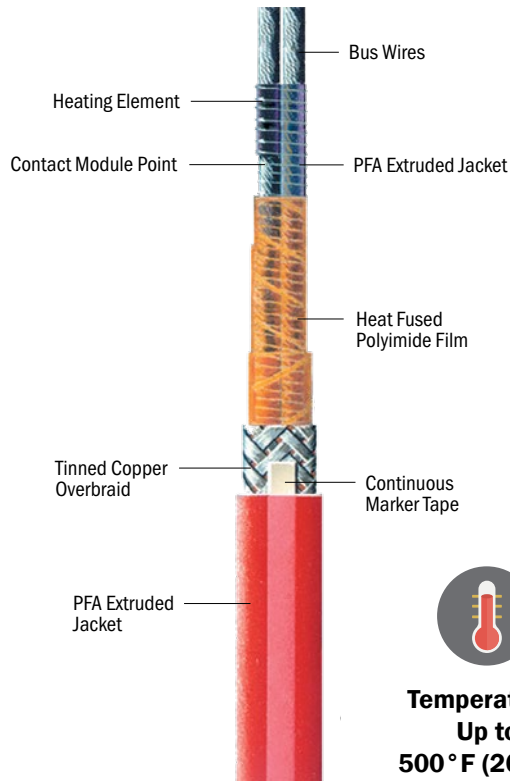
Part Number Matrix

KECAB	4	120
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Watts/ft: _____
 4, 8, 12

Voltage: _____
 120, 208, 240, 277, 480

IMPORTANT: Temperature controller is required for this product.



Temperatures Up to 500 °F (260 °C)

Maximum Circuit Length in ft (m)

Cable Type	120 VAC	208 VAC	240 VAC	277 VAC	480 VAC
4 watts/ft (13 watts/m)	480 (146)	830 (253)	960 (293)	1110 (338)	1920 (585)
8 watts/ft (26 watts/m)	240 (73)	415 (127)	480 (146)	555 (169)	960 (293)
12 watts/ft (39 watts/m)	160 (49)	277 (85)	320 (98)	370 (113)	640 (195)

Circuit Module Length in ft (m)

Cable Type	120 VAC	208 VAC	240 VAC	277 VAC	480 VAC
4 watts/ft (13 watts/m)	4.0 (1.2)	4.0 (1.2)	4.0 (1.2)	4.0 (1.2)	8.0 (2.4)
8 watts/ft (26 watts/m)	4.0 (1.2)	4.0 (1.2)	4.0 (1.2)	4.0 (1.2)	6.0 (1.8)
12 watts/ft (39 watts/m)	2.0 (0.6)	6.0 (1.8)	4.0 (1.2)	4.0 (1.2)	6.0 (1.8)

When ordering, please allow a minimum of 1 module length extra for terminations.



FM Approvals
1151 Boston-Providence Turnpike
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

FE-CAB a-b B. Parallel Resistance Heat Trace Cable System.

S/II/2/BCD/T2D; S/II/2/FG/T2D; S/III/2/T2D

a = Watts Per Foot: 3, 5, 8 or 12.

b = Voltage: 120, 208, 240, 277 or 480.

Special Conditions of Use:

1. The maximum maintain temperature rating is 204°C (400°F), and the maximum exposure temperature (Power Off – continuous) rating is 204°C (400°F).
2. The FE-CAB electrical heat trace cable systems are designed for use with manufacturer's suitably rated FM Approved connection kits.

KK-CAB a-b. Parallel Resistance Heat Trace Cable System.

S/II/2/BCD/T2A; S/II/2/FG/T2A; S/III/2/T2A

a = Watts Per Foot: 4, 8, 12 or 18.

b = Voltage: 120, 208, 240, 277 or 480.

Special Conditions of Use:

1. The maximum maintain temperature rating is 260°C (500°F), and the maximum exposure temperature (Power Off – continuous) rating is 260°C (500°F).
2. The KK-CAB electrical heat trace cable systems are designed for use with manufacturer's suitably rated FM Approved connection kits.

KM-CAB a-b-c. Parallel Resistance Heat Trace Cable System.

S/II/2/BCD/T2A; S/II/2/FG/T2A; S/III/2/T2A

a = Watts Per Foot: 4, 8 or 12.

b = Voltage: 120, 208, 240, 277 or 480.

c = Bus Wire Size: 16 or 12.

Special Conditions of Use:

1. The maximum maintain temperature rating is 260°C (500°F), and the maximum exposure temperature (Power Off – continuous) rating is 260°C (500°F).
2. The KM-CAB electrical heat trace cable systems are designed for use with manufacturer's suitably rated FM Approved connection kits.





KE-CAB a-b. Parallel Resistance Heat Trace Cable System.

S/II/2/BCD/T2B; S/II/2/FG/T2B; S/III/2/T2B

a = Watts Per Foot: 4, 8 or 12.

b = Voltage: 120, 208, 240, 277 or 480.

Special Conditions of Use:

1. *The maximum maintain temperature rating is 260°C (500°F), and the maximum exposure temperature (Power Off – continuous) rating is 260°C (500°F).*
2. *The KE-CAB electrical heat trace cable systems are designed for use with manufacturer's suitably rated FM Approved connection kits.*

Equipment Ratings:

Suitable apparatus for use in Class I, Division 2, Groups B, C and D; suitable for use in Class II, Division 2, Groups F and G; and suitable for use in Class III, Division 2; hazardous (classified) locations and unclassified locations.

Approved for:

BH Thermal Corporation
1055 Gibbard Avenue
Columbus, OH 43201



This certifies that the equipment described has been found to comply with the following FM Approval Standards and other documents:

Class 3600	1998
Class 3611	1999
Class 3810	1989
Supplement 1	1995
IEEE 515	1997

Original Project ID: 3011316

FM Approval Granted: September 2, 2004

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
050601	<i>JUNE 24, 2005</i>		

FM Global Technologies LLC

Roger L. Allard
Assistant Vice President
FM Approvals

JUNE 24, 2005
Date