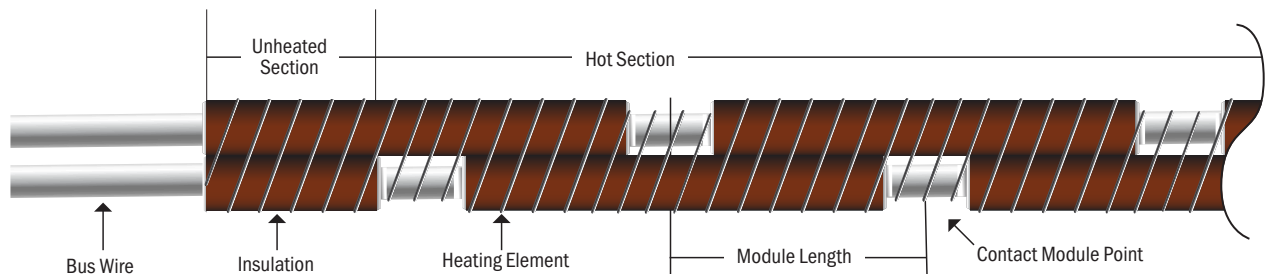


CONSTANT-WATTAGE HEATING CABLE SELECTION GUIDE

BriskHeat® Constant-Wattage Heating Cables	FE Series	KE Series	KM Series	KK Series
Page	50	47	48	49
Maximum Exposure Temperature	400°F (204°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Outer Jacket	FEP Extruded Jacket with Tinned Copper Overbraid	PFA Extruded Jacket	Polymide Film with Tinned Copper Overbraid	Polymide Film with Tinned Copper Overbraid
Available Voltages	120, 208, 240, 277, 480 VAC	120, 208, 240, 277, 480 VAC	120, 208, 240, 277, 480 VAC	120, 208, 240, 277, 480 VAC
Available Wattages	3, 5, 8, & 12 watts/ft (10, 16, 26, & 39 watts/m)	4, 8, & 12 watts/ft (13, 26, & 39 watts/m)	4, 8 & 12 watts/ft (13, 26, & 39 watts/m)	4, 8, 12, & 18 watts/ft (13, 26, 39, & 59 watts/m)
Nominal Dimensions	0.2 in x 0.3 in (5 mm x 8 mm) 12 AWG	0.2 in x 0.3 in (5 mm x 8 mm) 12 AWG	0.2 in x 0.3 in (5 mm x 8 mm) 12 AWG	0.15 in x 0.25 in (4 mm x 6 mm) 12 AWG
Weight per 500 Foot (152m) Spool	40 lb (18 kg)	41 lb (19 kg)	45 lb (20 kg)	30 lb (14 kg)
Dielectric Strength	Over 2000 volts	Over 2000 volts	Over 2000 volts	Over 2000 volts
Resistance to Moisture	Poor	Excellent	Good	Good
Resistance to Chemicals	Poor	Excellent	Good	Good
Resistance to Flame	Outstanding	Excellent	Outstanding	Excellent
Resistance to Radiation	Fair to good	Fair to good	Good	Outstanding flexibility after exposure to 10 ⁹ RADS

How Constant-Wattage Cable Works



Constant-Wattage cable uses a fixed resistance wire wrapped around two main conductors (bus wires). At specific intervals the insulation is removed from the bus wires, forming the Contact Module Points.

These Contact Module Points are staggered along the length of the cable. This creates consistent heating circuits known as the Module Length. When power is applied to the bus wires each complete Module Length heats at the rated wattage output.

The incomplete Module Lengths, at the beginning and end of each cable, do not heat. This allows the “Cold” ends to be safely placed inside of a controller or junction box.