

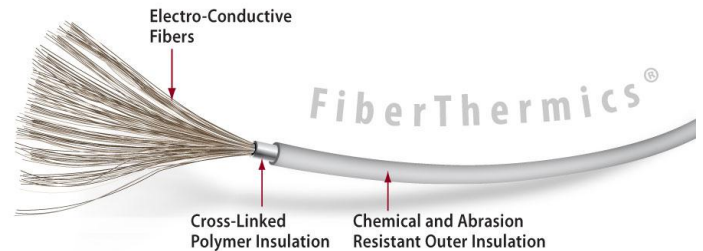
Ultra-Flexible FiberThermics® Heaters

Constant-Wattage Heaters

- Output the specified Watts regardless of the surrounding temperature.

Continuous heat output for:

- Pre-heating, pre-warming
- Temperature maintenance, warmth
- Low temperature, freeze protection
- Condensation prevention
- Process control in manufacturing, research, engineering, production, agriculture, testing



Warming Applications:

- Apparatus • Aquarium • Batteries • Biosphere • Chemicals • Containers •
- Ecosphere • Ecosystem • Environs • Equipment • Fluids • Gear • Habitats •
- Ingredients • Liquids • Machinery • Materials • Seeds • Soil • Solutions • Spores •
- Supplies • Tanks • Terrarium • Tools • Utensils •

In Controlled Environments:

- Aerospace • Clinic • Factory • Farm • Garage • Hospital • Industry • Laboratory •
- Shop • Classroom • Military • Plant • Test Center • Workshop •

Two Ultra-Flexible Heater Types:

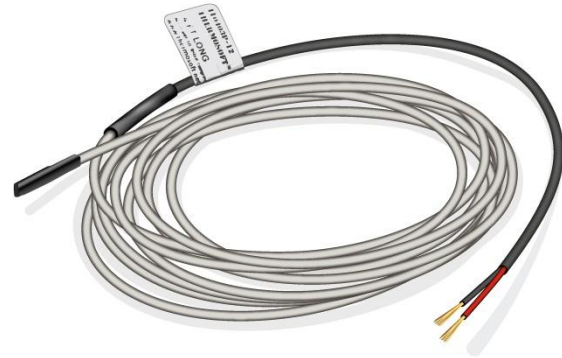
- Heat Cable: for Pipes, Flexible Tubes & Tubing, Irregular & Contoured Surfaces
- Heat Blankets: for Flat surfaces, Cylinders, Rectangular Containers

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- UL Recognized Heat Cable for the USA and Canada • Made in the USA

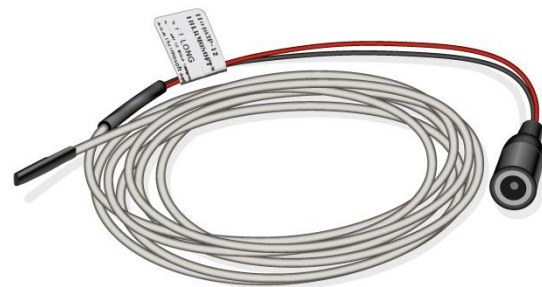
Ultra-Flexible FiberThermics® Heaters

Ultra-Flexible Heat Cable

- Made with an exclusive, patented, UL Recognized, FiberThermics® electro-conductive, textile heating fibers to provide ultra-flexibility.
- Innate, self-fusing overheat protection delivers the ultimate peace of mind.
- Heat Cables deliver output Power Density of (3) Watts per linear foot, constant Wattage, when powered by the specified input Voltage.
- Double insulated Heat Cable and hermetically sealed connections provide a completely water-proof Heat Cable.
- Cross-linked polymer inner insulation and outer Nylon insulation protects against abrasion and is chemically resistant.
- Withstands temperatures -50°C to +200°C.
- 12, 24, 36, 48 and 120 input Voltage models.
- Cable lengths range from 1 to 40 feet.
- 20 SKU's plus 12 SKU's offered with connector.



Ultra-Flexible Heat Cable



Ultra-Flexible Heat Cable with Connector

Ultra-Flexible Heat Blanket

- Made with UL Recognized, Ultra-Flexible, FiberThermics, Heat Cable.
- Laminated between two layers of high-strength, non-woven, polyester fabric that resists stretching in all directions.
- Double insulated Heat Cable and hermetically sealed connections provide a completely water-proof Heat Blanket.
- Heat blankets deliver the specified output Power Density Watts per S.F., constant Wattage, when powered by the specified input Voltage.
- Maximum 48 Watts/S.F.
- 12, 24, 36, and 48 input Voltage models.
- Sizes range from 2" x 12" to 22" x 16".
- Total 64 SKU's.

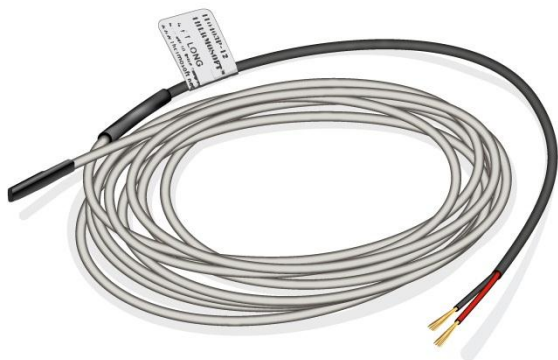


Ultra-Flexible Heat Blanket

To prevent burnout, heat cable and blankets must not overlap.

Ultra-Flexible FiberThermics® Heat Cable

SKU	Length Feet	Voltage Volts	Power Watts	Current Amps	Linear Power Watts/ft
IT0103-12	1	12	3	0.25	3.0
IT0203-12	2	12	6	0.50	3.0
IT0303-12	3	12	9	0.75	3.0
IT0403-12	4	12	12	1.00	3.0
IT0203-24	2	24	6	0.25	3.0
IT0403-24	4	24	12	0.50	3.0
IT0603-24	6	24	18	0.75	3.0
IT0803-24	8	24	24	1.00	3.0
IT0303-36	3	36	9	0.25	3.0
IT0603-36	6	36	18	0.50	3.0
IT0903-36	9	36	27	0.75	3.0
IT1203-36	12	36	36	1.00	3.0
IT0403-48	4	48	12	0.25	3.0
IT0803-48	8	48	24	0.50	3.0
IT1203-48	12	48	36	0.75	3.0
IT1603-48	16	48	48	1.00	3.0
IT1003-120	10	120	30	0.25	3.0
IT2003-120	20	120	60	0.50	3.0
IT3003-120	30	120	90	0.75	3.0
IT4003-120	40	120	120	1.00	3.0

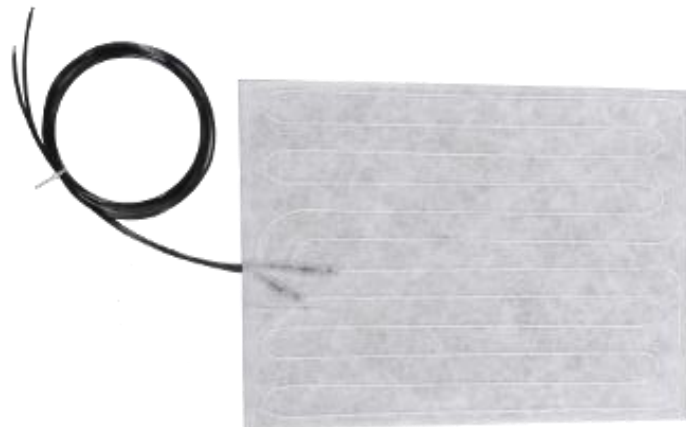


Cable With Connector*

* 2.1mm ID coaxial connector to be used with AC adapter. Add "P" to SKU number for connector:
IT0103P-12 = 01 (length) 03 (Wt./linear ft.) P (connector) 12 (Volts)

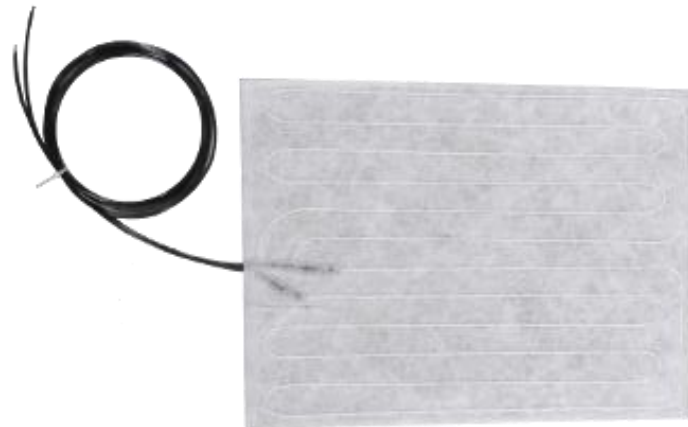
Ultra-Flexible FiberThermics® Heat Blankets

12 Volt SKU #	Width (Inches)	Length (Inches)	Power at 12V (Watts)	Current at 12V (Amps)	Power Density (Wt/Ft ²)
12HB0212-RCS	2	12	2.0	0.17	12
12HB0312-RCS	3	12	3.0	0.25	12
12HB0316-RCS	3	16	4.0	0.33	12
12HB0412-RCD	4	12	4.0	0.33	12
12HB0608-RCS	6	8	4.0	0.33	12
12HB0612-RCS	6	12	6.0	0.50	12
12HB0616-RCS	6	16	7.9	0.66	12
12HB0812-RCS	8	12	7.9	0.66	12
12HB0816-RCS	8	16	10.6	0.88	12
12HB0912-RCS	9	12	8.9	0.74	12
12HB0916-RCS	9	16	11.3	0.94	11
12HB1012-RCS	10	12	9.9	0.83	12
12HB1116-RCS	11	16	11.3	0.94	9
12HB1212-RCD	12	12	11.9	0.99	12
12HB1216-RCD	12	16	15.9	1.33	12
12HB1616-RCD	16	16	21.1	1.76	12
12HB1812-RCD	18	12	17.8	1.48	12
12HB1816-RCD	18	16	22.5	1.87	11
12HB2012-RCD	20	12	19.9	1.66	12
12HB2216-RCD	22	16	22.5	1.87	9



Ultra-Flexible FiberThermics® Heat Blankets

24 Volt SKU #	Width (Inches)	Length (Inches)	Power at 24V (Watts)	Current at 24V (Amps)	Power Density (Wt/Ft ²)
24HB0212-RCS	2	12	7.9	0.33	48
24HB0312-RCS	3	12	11.9	0.50	48
24HB0316-RCS	3	16	15.9	0.66	48
24HB0412-RCD	4	12	15.9	0.66	48
24HB0608-RCS	6	8	15.9	0.66	48
24HB0612-RCS	6	12	23.8	0.99	48
24HB0616-RCS	6	16	31.7	1.32	48
24HB0812-RCS	8	12	31.7	1.32	48
24HB0816-RCS	8	16	42.3	1.76	48
24HB0912-RCS	9	12	35.7	1.49	48
24HB0916-RCS	9	16	45.2	1.88	45
24HB1012-RCS	10	12	39.7	1.65	48
24HB1116-RCS	11	16	45.2	1.88	37
24HB1212-RCD	12	12	47.7	1.99	48
24HB1216-RCD	12	16	63.8	2.66	48
24HB1616-RCD	16	16	84.4	3.52	47
24HB1812-RCD	18	12	71.2	2.97	47
24HB1816-RCD	18	16	89.9	3.75	45
24HB2012-RCD	20	12	79.5	3.31	48
24HB2216-RCD	22	16	89.9	3.75	37



Ultra-Flexible FiberThermics® Heat Blankets

36 Volt SKU #	Width (Inches)	Length (Inches)	Power at 36V (Watts)	Current at 36V (Amps)	Power Density (Wt/Ft ²)
36HB0412-RDS	4	12	8.9	0.25	27
36HB0612-RDS	6	12	13.4	0.37	27
36HB0616-RDS	6	16	17.8	0.50	27
36HB1208-RDS	12	8	17.8	0.50	27
36HB1212-RDS	12	12	26.8	0.75	27
36HB1216-RDS	12	16	35.9	1.00	27
36HB1612-RDS	16	12	35.9	1.00	27
36HB1616-RDS	16	16	47.5	1.32	27
36HB1812-RDS	18	12	40.1	1.11	27
36HB1816-RDS	18	16	50.6	1.41	25
36HB2012-RDS	20	12	44.7	1.24	27
36HB2216-RDS	22	16	50.6	1.41	21

48 Volt SKU #	Width (Inches)	Length (Inches)	Power at 48V (Watts)	Current at 48V (Amps)	Power Density (Wt/Ft ²)
48HB0412-RDS	4	12	15.9	0.33	48
48HB0612-RDS	6	12	23.9	0.50	48
48HB0616-RDS	6	16	31.7	0.66	48
48HB1208-RDS	12	8	31.7	0.66	48
48HB1212-RDS	12	12	47.7	0.99	48
48HB1216-RDS	12	16	63.8	1.33	48
48HB1612-RDS	16	12	63.8	1.33	48
48HB1616-RDS	16	16	84.4	1.76	47
48HB1812-RDS	18	12	71.2	1.48	47
48HB1816-RDS	18	16	89.9	1.87	45
48HB2012-RDS	20	12	79.5	1.66	48
48HB2216-RDS	22	16	89.9	1.87	37

