

Flexible Silicone Heaters

A new line of flexible silicone heating elements is now part of ITC's product offerings.

Flexible heaters can bend and contour to various specific application requirements. They can be attached to flat or curved surfaces, to allow for better and more effective transfer of heat. This makes them ideal for equipment where standard operating conditions would prevent usage of conventional heating methods. Flexible heating elements encapsulated in silicone provide protection against moisture, chemicals, and are often more robust than other heating solutions. Silicone offers high electrical insulating properties and is also tolerant of a wide range of temperature extremes. Power is supplied via permanently connected leads.

These thin light-weight heaters with high watt density can be attached with fasteners or adhesive on a surface to be heated. Standard models come without adhesive, but can be customized with adhesive. Thermostats are recommended and the heaters should be installed on an electrical system protected by a residual current circuit breaker.

Features and specifications:

- High watt density
- Excellent heat distribution
- Moisture and chemical resistant
- Flexible and lightweight
- Custom sizes can be ordered
- **Maximum size:** 595 x 2500mm (23.4 x 98.4")
- **Thickness:** 0.8 - 1.5mm (0.031 - 0.059")
- **Temperature range:** -60 to 180°C
- **Operating voltage:** 120V or 12V AC/DC (custom values available)
- **Approvals:** cULus or cUR, CSA (depending on model)



Some typical applications:

- Medical / Laboratory research
- Photographic and optical equipment
- Battery warming
- Satellite dish snow melting
- Anti-condensation in enclosures
- Oil & Gas pipelines
- Wind turbine housings
- Military / Aerospace



Square/Rectangular Flexible Silicon Heaters (Order by Part No.)

Part No.	Cert.	Dimensions		Voltage	Power
		mm	Inches		
115.300101	UL US	50.8 x 101.6	2" x 4"	120V	40W
115.300102	UL US	50.8 x 101.6	2" x 4"	120V	60W
115.300103	UL US	50.8 x 101.6	2" x 4"	120V	100W
115.300104	UL US	101.6 x 101.6	4" x 4"	120V	200W
115.300105	UL US	101.6 x 203.2	4" x 8"	120V	100W
115.300106	UL US	101.6 x 203.2	4" x 8"	120V	200W
115.300107	UL US	101.6 x 203.2	4" x 8"	120V	400W
115.300108	UL US	101.6 x 279.4	4" x 11"	120V	150W
115.300110	UL US	101.6 x 279.4	4" x 11"	120V	500W
115.300111	UL US	203.2 x 203.2	8" x 8"	120V	800W
115.300121	UL US	50.8 x 50.8	2" x 2"	12V	50W
115.300125	UL US	50.8 x 50.8	2" x 2"	24V	50W

Information subject to change without notice

All standard models above supplied with 500mm leads

Round Flexible Silicon Heaters (Order by Part No.)

Part No.	Cert.	Dimensions (diameter)		Voltage	Power
		mm	Inches		
115.300112	UL US	101.6	4"	120V	40W
115.300113	UL US	101.6	4"	120V	60W
115.300114	UL US	101.6	4"	120V	100W
115.300115	UL US	152.4	6"	120V	200W
115.300117	UL US	152.4	6"	120V	100W
115.300119	UL US	203.2	8"	120V	400W
115.300120	UL US	203.2	8"	120V	150W
115.300122	UL US	101.6	4"	12V	500W
115.300123	UL US	101.6	4"	12V	800W
115.300124	UL US	101.6	4"	12V	120W
115.300126	UL US	101.6	4"	24V	40W
115.300127	UL US	101.6	4"	24V	80W
115.300128	UL US	101.6	4"	24V	120W

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