

## An Economical and Reliable Cartridge Heater, Used in Applications Requiring Lower Operating Temperatures and Watt Densities

### LDC Series



#### Typical Applications

- Heat Sealing Equipment
- Laminating Equipment
- Packaging Equipment
- Labeling Machines
- Molds and Dies
- Food Processing
- Refrigeration
- Shoe Machinery
- Glue Guns
- Wax Pots
- Heating Liquids
- Heating Gases

Low-density cartridge heaters are an excellent, cost effective choice without compromising quality for Original Equipment Manufacturers (OEMs) consuming large quantities of cartridge heaters for their equipment.

#### Standard Specifications and Tolerances

##### Performance Ratings

**Maximum Temperature:** 650°C (1200°F)

**Maximum Watt Density:** 3.1 to 7.0 Watt/cm<sup>2</sup> (20 to 45 Watt/in<sup>2</sup>) depending on heater size and operating temperature

##### Dimensional Specifications

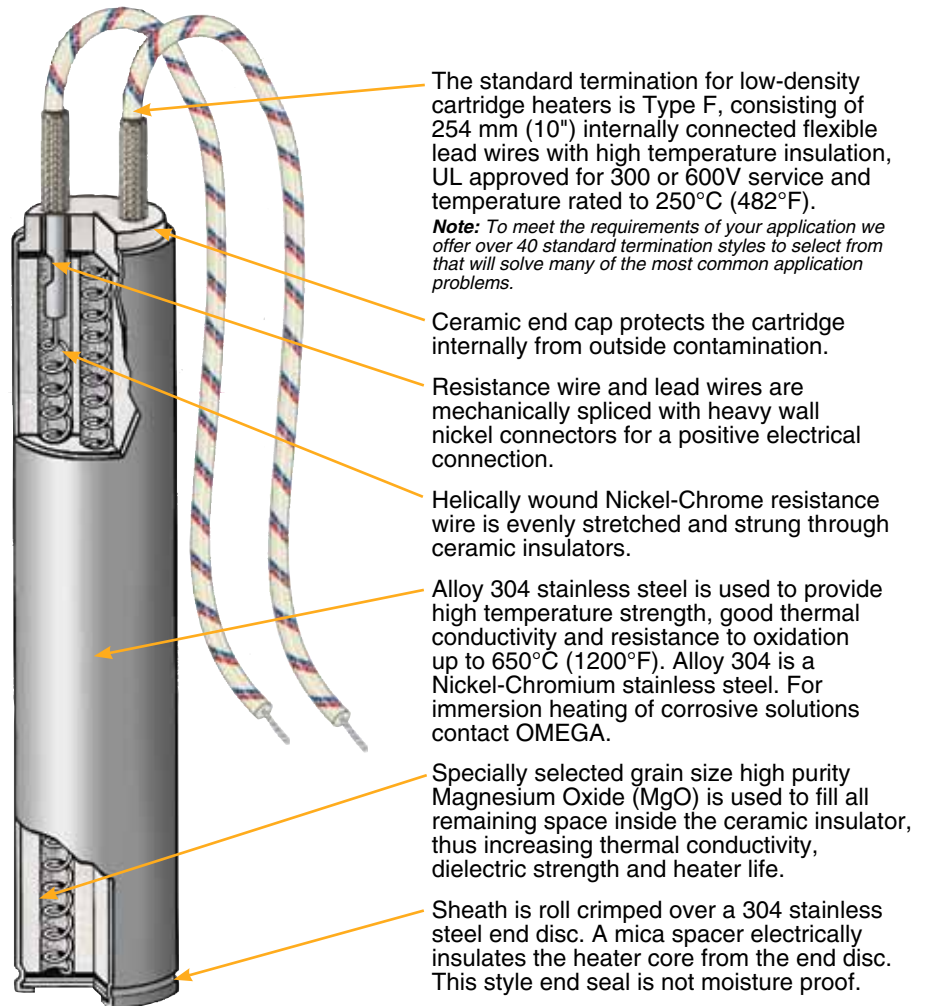
Nominal Diameter	3/16	1/4	3/8	1/2	5/8	3/4	7/8	15/16	1	1 1/4
Actual Diameter inch	0.185	0.247	0.372	0.496	0.621	0.745	0.870	0.933	0.995	1.250
Actual Diameter mm	4.70	6.27	9.45	12.60	15.77	18.92	22.10	23.70	25.27	31.75
Diameter Tolerance	0.051 mm (±0.002")									0.127 mm (±0.005")
Length Tolerance	1.59 mm (±1/16") up to 152 mm (6") long; 3.18 mm (±1/8") over 152 mm (6") long									
Camber Tolerance	0.254 mm (0.010") per foot of length									

##### Electrical Specifications

Nominal Diameter	3/16	1/4	3/8	1/2	5/8	3/4	7/8	15/16	1	1 1/4
Maximum Voltage	240	240	240	240	480**	480**	480**	480**	480**	480**
Maximum Amperage	1.5	3.5	6	8	10	15	15	15	25	30
Maximum Wattage	Contact OMEGA									
Wattage Tolerance	Plus 5%, minus 10%									
Resistance Tolerance	Plus 10%, minus 5%									

\* Low density cartridge heaters are UL recognized and CSA certified in many design variations under UL File Number E65652 and CSA File Number 043099. If you require UL and/or CSA Agency Approval, please specify when ordering.

\*\*480V when applicable. Contact OMEGA.





# Low Density Cartridge Heaters

3/8" Diameter, Actual 9.45 mm (0.372")

**To Order Visit [omega.com/ldc3](http://omega.com/ldc3) for Pricing and Details**

Model No.		Sheath Length		Watts	Watt Density	
120V	240V	mm	inch		Watt/cm <sup>2</sup>	Watt/in <sup>2</sup>
LDC00033	—	38.1	1½	15	2.0	13
LDC00034	—	38.1	1½	40	5.3	34
LDC00035	—	50.8	2	50	4.4	28
LDC00036	—	63.5	2½	75	4.9	32
LDC00037	—	63.5	2½	100	6.6	42
LDC00038	—	76.2	3	100	5.3	34
LDC00039	LDC00040	88.9	3½	120	5.3	34
LDC00041	LDC00042	101.6	4	75	2.8	18
LDC00043	LDC00044	101.6	4	130	4.9	32
LDC00045	LDC00046	101.6	4	150	5.6	36
LDC00047	LDC00048	101.6	4	180	6.8	44
LDC00049	LDC00050	114.3	4½	75	2.5	16
LDC00051	LDC00052	114.3	4½	150	4.9	32
LDC00053	LDC00054	127.0	5	150	4.4	28
LDC00055	LDC00056	127.0	5	200	5.8	38
LDC00057	LDC00058	139.7	5½	200	5.3	34
LDC00059	LDC00060	152.4	6	225	5.4	35
LDC00061	LDC00062	152.4	6	250	6.0	39
LDC00063	LDC00064	177.8	7	200	4.0	26
LDC00065	LDC00066	177.8	7	265	5.4	35
LDC00067	LDC00068	203.2	8	300	5.3	34
LDC00069	LDC00070	228.6	9	350	5.4	35
LDC00071	LDC00072	241.3	9½	300	4.4	28
LDC00073	LDC00074	254.0	10	375	5.2	34
LDC00075	LDC00076	304.8	12	425	4.9	31
LDC00077	LDC00078	304.8	12	450	5.1	33
LDC00079	LDC00080	304.8	12	475	5.4	35
LDC00081	LDC00082	304.8	12	500	5.7	37
LDC00083	LDC00084	355.6	14	500	4.9	31
LDC00085	LDC00086	406.4	16	550	4.7	30
LDC00087	LDC00088	508.0	20	200	1.3	9
LDC00089	LDC00090	508.0	20	650	4.4	28
—	LDC00091	558.8	22	800	4.9	32
—	LDC00092	609.6	24	750	4.2	27

**Note:** Model numbers above are for low density cartridge heaters terminated with Type F flexible leads, 254 mm (10") long.

**Ordering Example:** LDC00069, 350 W, 120 Vac, cartridge heater.

Order by model number from the standard sizes and ratings list on the preceding pages. Note that model numbers shown are for heaters with Type F Termination [254 mm (10") leads].

### Custom Engineered/Manufactured Heaters

Because an electric heater can be very application specific, for sizes and ratings not listed, OMEGA will design and manufacture a low-density cartridge heater to meet your requirements.

#### Please Specify the Following:

- Diameter
- Length
- Wattage
- Voltage
- Termination Types
- Lead Length
- Cable/Braid Length
- Special Features
- Application Type
- Operating Temperature