

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/cm² (20 to 45 Watt/in²) depending on heater size and operating temperature

Dimensional Specifications

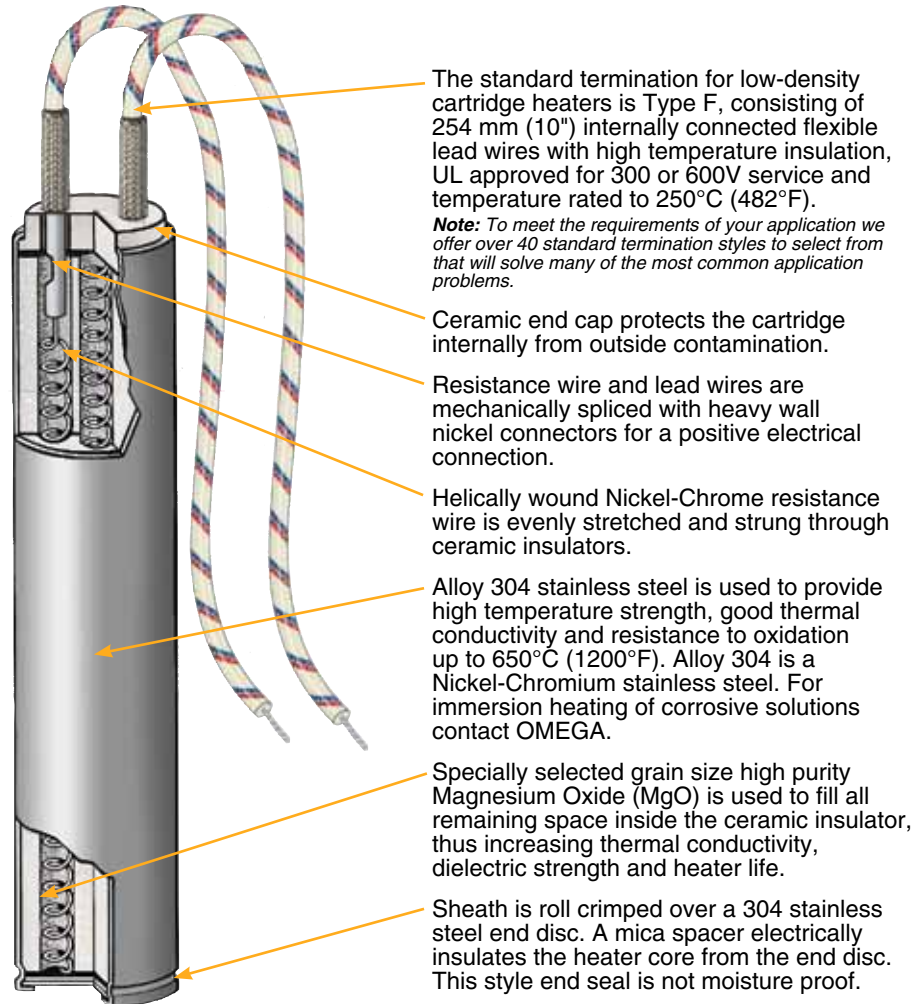
Nominal Diameter	3/16	1/4	3/8	1/2	5/8	3/4	7/8	15/16	1	1 1/4
Actual Diameter inch	0.185	0.247	0.372	0.496	0.621	0.745	0.870	0.933	0.995	1.250
Actual Diameter mm	4.70	6.27	9.45	12.60	15.77	18.92	22.10	23.70	25.27	31.75
Diameter Tolerance	0.051 mm (±0.002")									0.127 mm (±0.005")
Length Tolerance	1.59 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.





1¼" Diameter, Actual 31.62 mm (1.245")

To Order Visit omega.com/ldc10 for Pricing and Details

Model No.		Sheath Length		Watts	Watt Density	
120V	240V	mm	inch		Watt/cm ²	Watt/in ²
LDC00403	LDC00404	82.6	3¼	400	5.7	37
LDC00405	LDC00406	127.0	5	450	3.9	25
LDC00407	LDC00408	152.4	6	500	3.6	23
LDC00409	LDC00410	152.4	6	800	5.7	37
LDC00411	LDC00412	177.8	7	550	3.3	22
LDC00413	LDC00414	177.8	7	1000	6.1	39
LDC00415	LDC00416	228.6	9	675	3.1	20
LDC00417	LDC00418	254.0	10	1000	4.2	27
LDC00419	LDC00420	304.8	12	1000	3.4	22
—	LDC00421	355.6	14	2000	5.8	38
—	LDC00422	381.0	15	1250	3.4	22
LDC00423	LDC00424	419.1	16½	1000	2.5	16
—	LDC00425	571.5	22½	2200	3.9	25
—	LDC00426	609.6	24	2400	4.0	26

Note: Model numbers above are for low density cartridge heaters terminated with Type F flexible leads, 254 mm (10") long.
Ordering Example: LDC00417, 1000 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