

FLEXIBLE FIBERGLASS HEATERS

Custom Flexible Fiberglass “Rope” Heating Elements are manufactured by JenTer with standard diameters ranging from 0.026” – 0.219” (0.65 – 5.56mm). Fiberglass Rope Heaters are fabricated by helically wrapping resistance wire around a fiberglass core material. This cordage is then covered with one or two layers of braided fiberglass yarn. These heaters are fully tested per UL499 for temperature and dielectric.

Fiberglass heaters can be mounted to the application using many different methods. These heaters can also be encapsulated in foil to maintain a specific pattern. (See foil heaters for more information).

Fiberglass rope heaters are rated up to 144 Watts per foot compared to PVC at 2.4 Watts per foot and Silicone at 8.4 Watts per foot.

Fiberglass rope heaters are ideal for low moisture applications that require a low cost, robust, long lasting element. Fiberglass ropes are rated up to 500°C (932°F) compared to PVC at 105°C (221°F) and Silicone at 200°C (392°F).

Many lead wire gauges and styles are available. Most lead termination options are also available. Direct heater termination or lead termination is available.

Fiberglass rope heaters are a very cost-effective solution for many applications.

Fiberglass heaters have been replacing many other more expensive heating options with exceptional results. All JenTer fiberglass rope heaters are made in the U.S.A. Special components specifically requested by customers can be domestically or internationally sourced. Distinct advantages include:

- Economical
- Versatile
- Product holds shape after use
- Heat long surface areas
- Long field life
- Low development cost
- No special tooling
- Higher wattages available over extruded rope heaters



Shown Above - various styles, sizes, and lead wire extensions available from JenTer for rope heaters made with silicone, PVC, or fiberglass insulation.

Shown Below - Fiberglass

Heaters available without braid and with one or two fiberglass braids.



In addition, JenTer flexible fiberglass heaters are available with custom design modifications or add-on features and sensors.

JenTer typically builds to order, but we regularly meet expedited customer delivery requests. We also assist customers with demand analysis and determining proper inventory levels to ensure uninterrupted production.

Please contact us to discuss your product specifications & requirements today!



FLEXIBLE FIBERGLASS ROPE HEATERS

Applications for these products include all the following and many more products:

- Slow cookers
- Coffee maker/holder
- Medical & Laboratory devices
- Condiment dispensing
- Leather stretching
- Anti-freeze protection
- Food processing units
- Cooking/Holding food product
- Heated furniture
- Air compressor dryer
- Incubation
- Humidity Control Systems
- Fire Safety Equipment
- Heated circuit boards
- Defrost heaters
- Pipe wraps
- Gas pump display
- Pet bed, Bird bath/perch
- Battery warmer
- Seam welding (nonmetal)
- Plastic bending/handling
- Telecommunications

PLEASE SPECIFY

- Heated length
- Max operating temp.
- Voltage
- Wattage
- Dielectric requirement
- Direct heater term
- Lead wire type & gauge (Teflon, Silicone, Kapton, etc.)
- Lead strip length
- Required connector
- Lead lengths
- Heatshrink or staples
- Quantity
- Delivery Timing

OPTIONS

- SJO power cords
- Thermostats
- Thermo-cutoffs
- External lead term
- Continuous spool
- Cold Leads

TYPICAL TEMPERATURE RANGE

Fiberglass: -40°C to 500°C

(-40°F to 932°F)

LENGTH REQUIREMENT

2" – 100+ FT

THICKNESS

0.026" – 0.219"

MAX VOLTAGE

600 Volts

DIELECTRIX STRENGTH

Standards: 1200 & 1500 VAC

Maximum: 2800 VAC

WATT DENSITY

144 Watts per lineal foot

WATTAGE TOLERANCE

± 5 % (nominal resistance)

LEADWIRE LENGTH

Custom to requirements

TYPICAL DIMENSIONAL TOLERANCE

Less than 12" ± 0.062"

Up to 36" ± 0.125"

Beyond 36" ± 0.250"