

# Micro Tubular Coil Heaters



## APPLICATION

Heaters are used in various applications, due to their being intrinsically reliable and highly versatile. They were first designed for a very specific application, the differential heating of plastic injection nozzles, and later become invaluable in the most diverse and demanding applications. Aerospace, railway, chemical, metalworking and food industry, glass and paper industry, automotive, packing, medical industry... all have taken advantage from the use of heaters, with their wide range of possible shapes and their fitness to an unlimited number of applications.

## CONSTRUCTION

Microtubular coiled heaters are manufactured to a revolutionary design, which makes them the best choice in the most demanding conditions. The resistive wire is uniformly distributed in a compacted MgO insulation, with a CrNi-steel outer protection sheath. The heaters are annealed after manufacturing, thus acquiring a high malleability that allows their being subsequently bent into any complex shape, with extremely narrow bending radius.

## FEATURES

- A very wide contact surface results in exceptionally high levels of thermal conductivity towards the body that needs to be heated.
- Optimal insulation results in very long life duration
- Heavy-duty construction results in very high resistance to mechanical shocks
- Operation temperature up to 700°C (1300°F)
- Very low mass results in extremely low thermic inertia
- Optional built-in thermocouple for high-resolution temperature measuring (J-type standard; K-type on request)
- Unlimited range of possible shapes obtained from the straight heater
- Heaters can be incorporated into brass or aluminium castings
- Available in cross section 2.4mm x 4.2mm & 3.3mm x 3.3mm.



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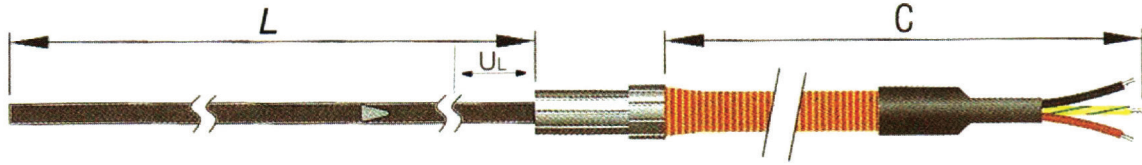
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# MICRO TUBULAR COIL HEATERS

## STRAIGHT



Cross section: 2.4 mm x 4.2 mm + 0.15 1m cable with or w/o TC

Length (mm) $\pm 3\%$	Heated Length (mm) $\pm 5\%$	Power (W) with 230V $\pm 10\%$	Power Density (W/cm) with 230V
300	205	175	5.4
350	255	210	5.4
400	305	250	5.4
450	355	280	5.4
500	405	315	5.4
550	455	350	5.4
600	505	385	5.4
700	555	450	5.4
800	655	525	5.4
900	855	600	5.4
1000	955	600	5.4
1200	1155	800	5.4

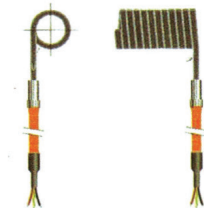
Also available in square section 3.3 mm x 3.3 mm

## CABLE EXIT OPTIONS

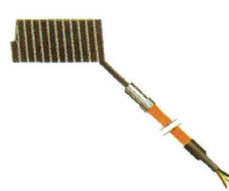
S RADIAL



R TANGENTIAL



N AXIAL 45°



L AXIAL 90°



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