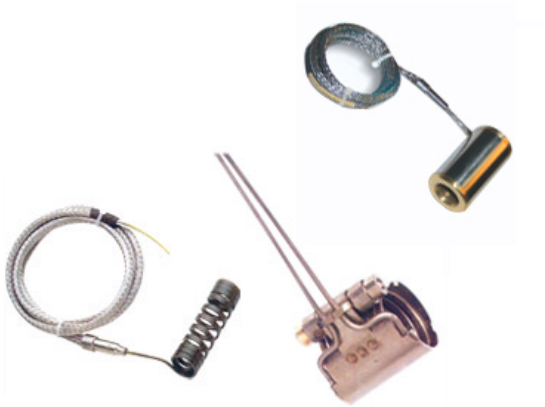
SYNHEAT

Manufacturer of Electric Heating Elements and Controls

Hot Runner Coil Heaters

Hot runner heaters are made of nickel chrome resistance wire placed inside chrome nickel steel tube filled with mgo powder and compacted for faster and efficient heat transfer. The heaters are annealed to acquire malleability for bending into any shape. Hot runner heaters with built in thermo couple are also available. Hot runner bushes are produced with hot runner heaters of different cross section with inner brass and outer stainless steel cover.



APPLICATION

- Moulds & dies
- Manifolds
- Hot runner nozzles and spruce bushes
- Packaging machineries
- Manifolds
- Injection moulding machine nozzle

AVAILABLE IN FOLLOWING CROSS SECTION

- 3.0 x 3.0, 3.30 x 3.30, 4.50 x 4.50 mm
- 4.20 x 2.20, 4.50 x 2.50, 3.20 x 1.80, 1.30 x 2.30 mm
- 3.30, 1.80, 1.60, 1.35 mm

Any other cross sections can be manufactures and supplied on request.

TECHNICAL SPECIFICATION AND TOLERANCE

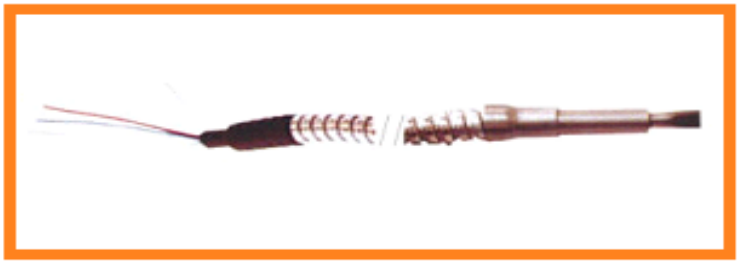
Sheath Material	Cr Ni-Steel
Insulation Material	Mgo
Resistance Wire	Ni Cr 80-20
Maximum Sheath Temperature	700°C
Die Electrical Strength	800V A/C
Insulation	≥ 5 M W
Thermocouple	J type (Standard) or K type
Length Tolerance (Straight)	± 5%
Wattage Tolerance	± 10% (± 5% Available Upon Request)
Resistance Tolerance	± 10% (± 5% Available Upon Request)
Unheated Length	35mm (Standard)
Dimensional Tolerance	Coil I.D ± 0.1 to 0.2mm Coil Length ± 1mm

CONNECTION LEADS OPTION

PTFE Insulated nickel lead protected with thick silicon coated fiberglass sleeve

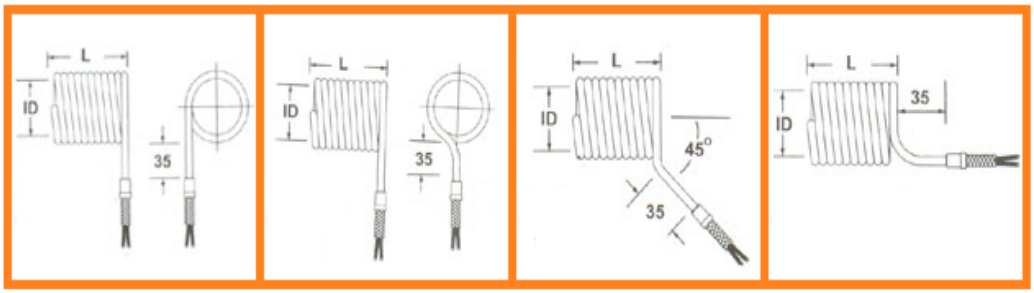
PTFE Insulated nickel lead protected with flexible stainless steel metal braid

PTFE Insulated nickel lead protected with flexible stainless steel metal hose



PTFE Insulated nickel lead protection

TYPICAL LEAD ORIENTATION



HOW TO ORDER MICRO TUBULAR HEATER

- Cross Section
- Outer dia of coiled heater : O.D
- Inner dia of coiled heater : I.D (Or) Outer diameter of nozzle to be heated
- Number of coils in L1,L2,L3
- Coil total length TL =
  L1= , L2= , L3=
- Connection lead option and lead length
- Connection lead orientation Refer-Fig-1
- Drawing or sample for special type configuration
- Volts
- Watts
- Type of the thermocouple (J type or K type)