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HS- 050.34E

hotspring®   COIL HEATERS HOTSET

# hotspring® / Maxi 4.6 x 8.6 (WRPF Maxi 4.6 x 8.6)

TECHNICAL DATA

- hotspring® coil heater with flat cross-section 4.6 x 8.6 mm
- Sheath material: Stainless Steel
- Insulation sheath: high-compressed MgO
- Heating conductor compound: NiCr 8020
- Sheath temperature of heating element: max. 750 °C
- Voltage: max. 440 V, Standard: 230 V
- Power tolerance (cold): ± 10% (< on request)
- High voltage strength (cold): 1250 V-AC
- Insulation resistance (cold):> 5 MΩ at 500 V-DC
- Leakage current (cold):< 0.5 mA bei 253 V-AC
- Exit axial, radial or tangential,
- max. total length straight: 3000 mm
- with connection-head:
   min. length of unheated zone L_{uz}: 45 mm
  without connection-head:
  min. length of unheated zone: 45 mm,
   max. length of unheated zone: 65 mm
- Length tolerance heated zone: ± 1%
               unheated zone: ± 5%
- nner diameter tolerances
   without reflection tube:
      up to IØ 30 mm -0.10/-0.30
      up to IØ 50 mm -0.20/-0.40
      > IØ 50 mm on request
   with reflection tube: +0.05/+0.15
- minimum bending radius (internal): 10 mm
- connection versions see page 2
- deliverable with or without integrated thermocouple
  Fe-CuNi (type J, Standard) or NiCr-Ni (type K)
  (IEC 60584) (ungrounded, standard)
- deliverable with reflection tube
- deliverable with clamping band

Approximate formula
for calculation the stretched heated length of coiled heaters [mm].
$(IØ + 4.6) . \pi$. number of windings = heated length$_{straight}$
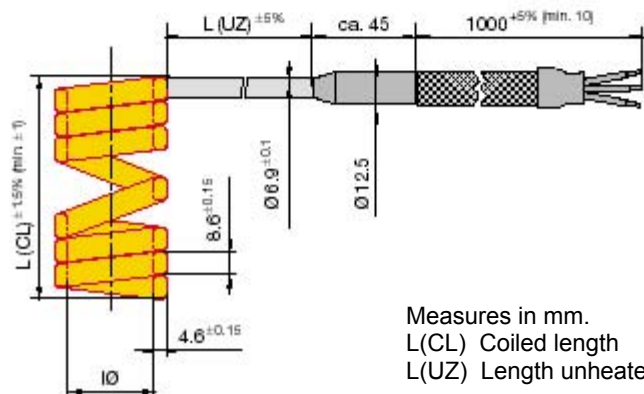
Measures in mm.
L(CL) Coiled length
L(UZ) Length unheated zone

STANDARD MODELS

W a 230V	Length mm	Heated length mm	Thermocouple TCJ
300	315	250	
300	315	250	X
450	415	350	
450	415	350	X
550	515	450	
550	515	450	X
800	715	650	
800	715	650	X
1000	915	850	
1000	915	850	X

# CONNECTION VERSIONS   hotspring® / Maxi 4.6 x 8.6
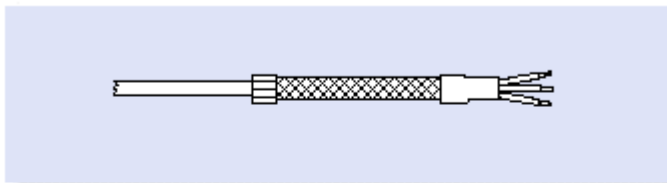
MAXI WITHOUT HEAD NG, NM, ND
- PTFE insulated Cu-nickel-plated leads, multistranded
- with glass silk insulated protective sleeving
- with braided metal sleeving
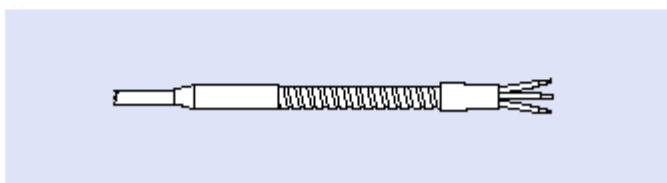- with flexible metal sleeving
- with ground wire
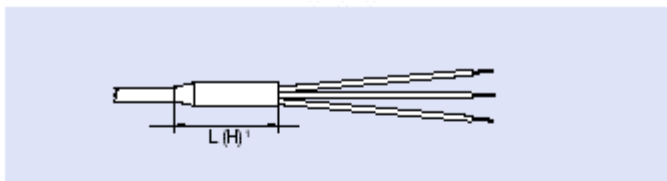
TYPE MAXI N WITH HEAD
- glass silk insulated nickel-leads, multistranded
- with ground wire
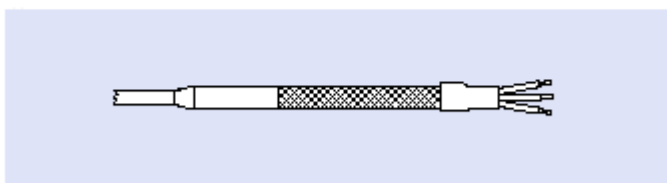- high temperature Ni-leads multistranded
  (with blank groundwire)
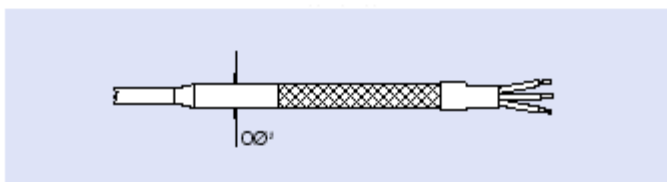
TYPE MAXI NG WITH HEAD
- glass silk insulated nickel-leads, multistranded
- with glass silk insulated protective sleeving
- with ground wire

TYPE MAXI NM WITH HEAD
- glass silk insulated nickel-leads, multistranded
- high temperature Ni-leads multistranded
  (with blank groundwire)
- with flexible metal sleeving
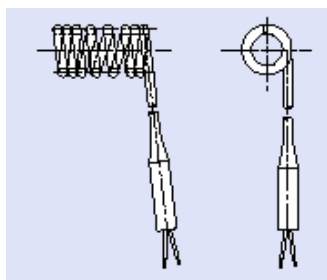- with ground wire

TYPE MAXI ND WITH HEAD
- glass silk insulated nickel-leads, multistranded
- high temperature Ni-leads multistranded
  (with blank groundwire)
- with braided metal sleeving
- with ground wire
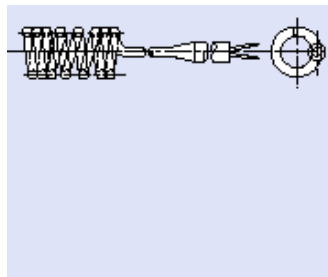
[1] Length of head L(H) 45 mm (Standard)
[2] Outer Diameter O 12,5 mm
Maximumm current.(with head a 20 ºC 29,7 A, a 250 ºC 5,6 A
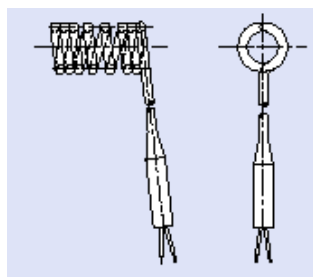
EXITS

Tangential

Axial

Radial

Other dimensions and product varieties on request.

We reserve the right to change technical details.