

 **Flexiwatt[®]**

Cartridge Heater Flexible

created for this new era

Flexiwatt®

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The first compressed flexible heater cartridge



The Flexiwatt by Maxi watt is a tubular heating element with excellent thermal properties, which can freely be bent. The handling is easy depending on the application. Can be bent in all three dimensions.

Maxi watt offers the Flexiwatt direct from stock, in numerous diameters and cross sections.

For the user, the Flexiwatt provides great advantages in warehousing. If necessary, the tubular heater can be bent easily and quickly into the required form. Take advantage of the flexibility of our Flexiwatt for your own operations.

All our heaters comply with standards and each heater must undergo an individual test.

The outer sheath adapts to any curvature and presses itself evenly against the surface of the groove. This guarantees optimal heat transfer even when under extreme mechanical stress.

For your application this means:

- Optimised heating transfer. Savings in heating time and energy.
- Long durability
- A contact surface of 75% (approx. 45 more than a comparable round heater)
- Quick and easy assembly due to flexible construction
- Various dimensions
- Hermetically sealed against the penetration of gases and liquids into heating element (e. g. humidity or oil)

About us

For over 50 years our aim has been to offer the best cartridge heaters to our customers. The highest technological standards are used in their manufacture.

We ensure first class quality in our products. Before our products are incorporated into the cartridge, they must undergo the strictest quality tests. Therefore, we are able to supply the most suitable and reliable cartridge heaters, which may vary in size, from only 4 mm Microwatt cartridge to cartridges from 700 mm and 6 m length.

Together with the importance of good service, Maxi watt offers our customers a 48-hour delivery service, permanent stock, customized cartridges (available in 24 hours) as well as free consulting, manufacturing research, plus a long list of advantages for our customers benefit.



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Facts

- Easy installation with a uniform finish
- Can be bended manually
- Does not require special installation tools
- 3-Dimensional groove geometry possible
- Industry's smallest bending radius
- Flexiwatt's flexibility enables heat to be located where it is needed; an improvement over rigid cartridge heaters
- Minimal temperature difference between heater sheath and heated tool
- Stored in a straight condition to save storage space
- Technology ensures industry leading heat transfer
- Up to 75% sheath contact with round Flexiwatt heaters when recommended groove geometry is followed
- Quick heat-up times
- Reduced energy costs: tool mass can be reduced

Technical Key Features

Sheath material	Stainless Steel
Min. Bending radius internal	10 mm
Wattage tolerance	± 10%
Length tolerance	± 5%
Sheath temperature of heating element	max. 800 °C / 1470 °F
Standard connection voltage	230 V
High voltage test*	1000 V AC
Insulation resistance*	≥ 5 MΩ at 500V DC
Leakage current*	< 0.5 mA at 253 V AC

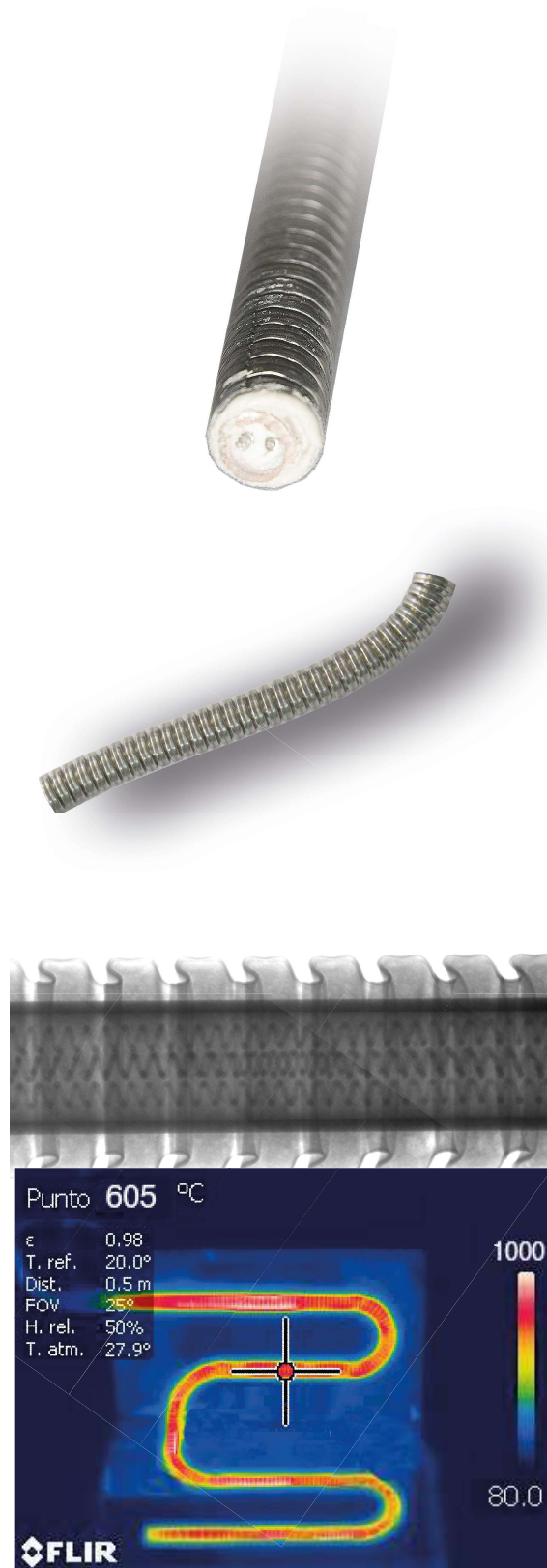
*tested at environmental temperature

Options

- Bendable unheated zones
- Connection voltage from 12 V to 250 V
- Individual length
- Individual wattage
- Individual connection options

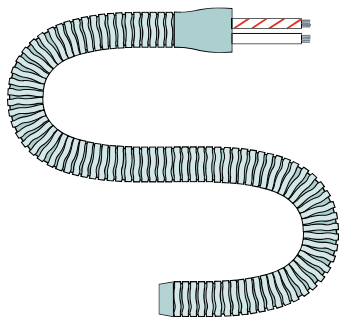
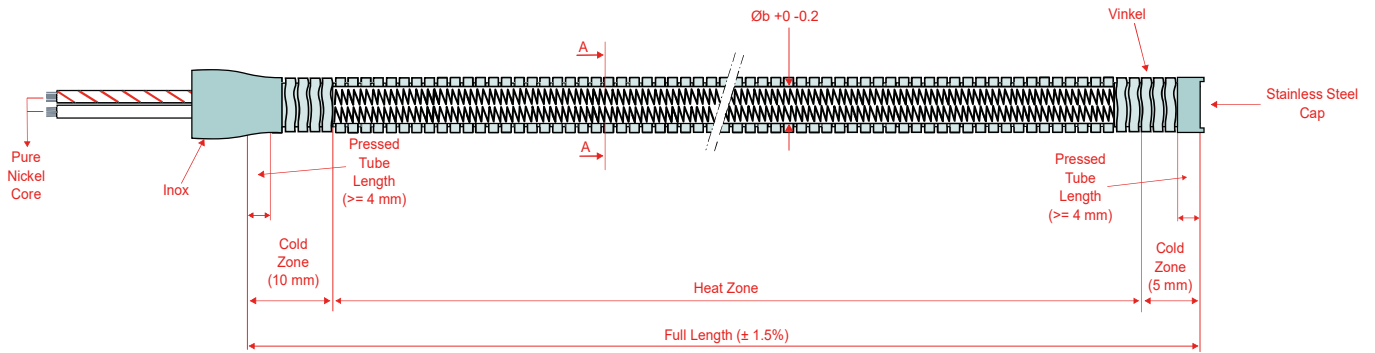
Advantages

- Flexible tubular
- Simple installation
- No especial tooling required
- 3-Dimensional groove geometry possible
- Low bending radius possible
- Simple warehousing
- Just one side connection

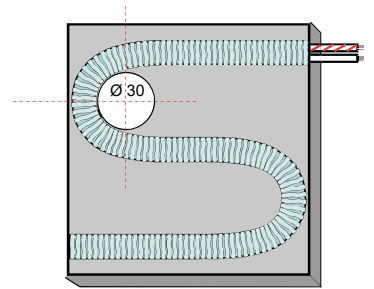
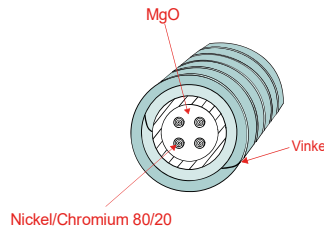
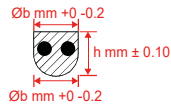


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A - A: cross-section

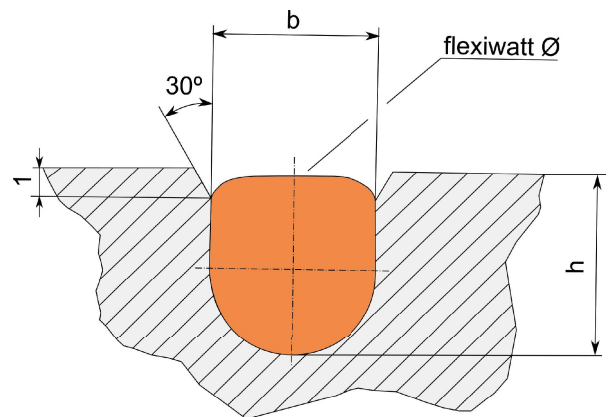


Type Flexiwatt	L min [mm]	L max [mm]	Tube section max [mm]	Min. Bending radius internal	Max. Sheath surface load [W/cm ²]
Ø 8.0	300	3000	10	10	15
Ø 8.2	300	3000	10	10	15
Ø 8.5	300	3000	10	10	15

* Depending on the number of bends the Flexiwatt length can increase.

Recommended groove geometry

Type Flexiwatt	Groove dimensions [mm] b x h
Ø 8.0 ^{+0 -0.2}	7.7 ^{±0.05} x 8.0 ^{±0.1}
Ø 8.2 ^{+0 -0.2}	7.9 ^{±0.05} x 8.2 ^{±0.1}
Ø 8.5 ^{+0 -0.2}	8.2 ^{±0.05} x 8.5 ^{±0.1}

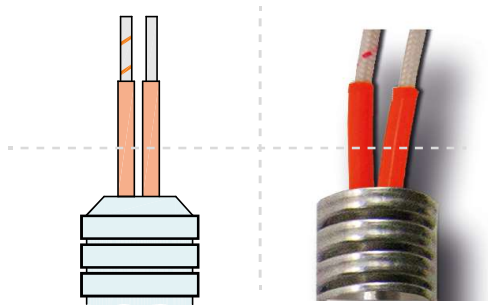


Rounded groove geometry

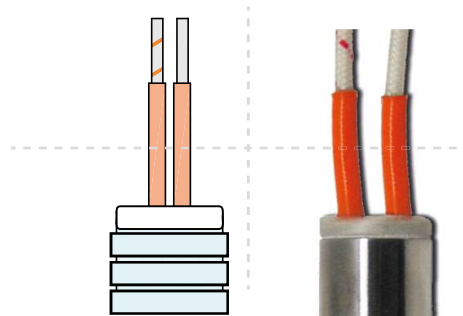


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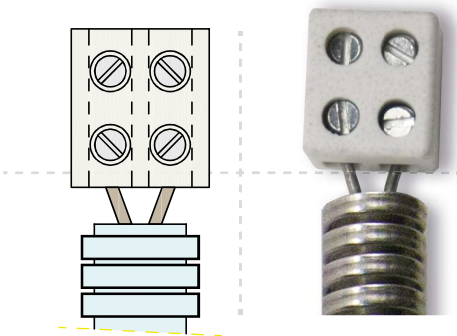
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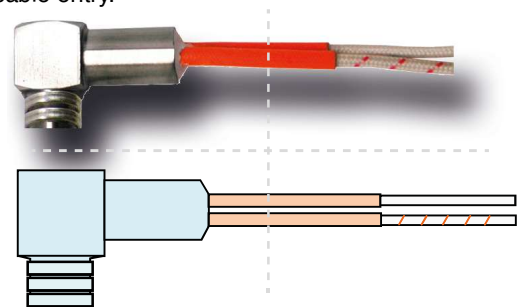
Base Ending (Ref. "T1")
Cartridge with a heat-resistant ceramic paste which seals the entry.



Steatite Ending (Ref. "T2")
Cartridge with one steatite ceramic piece which just out. More consistency to the cable entry.



Chip Ending (Ref. "T3")
Cartridge with a steatite ceramic piece. Ready for a quick change of wires.



Ending 90° (Ref. "T9")
Fully watertight with our Ending T1W and PTFE leads. This ending can be used in any hostile situation.

Protections



Stainless Steel Armor (Ref. P.S.Sa.)
Protects against shocks and spillage of viscous products, relative mobility. The maximum in protection for abrasive



Vinkel Tube (Ref. P.Tv)
Protects against shocks and spillage of viscous products, relative mobility



Fiberglass Sleeve (Ref. P.Fv)
Protect against high temperatures, moderate friction. Ideal for twined conduction cable.



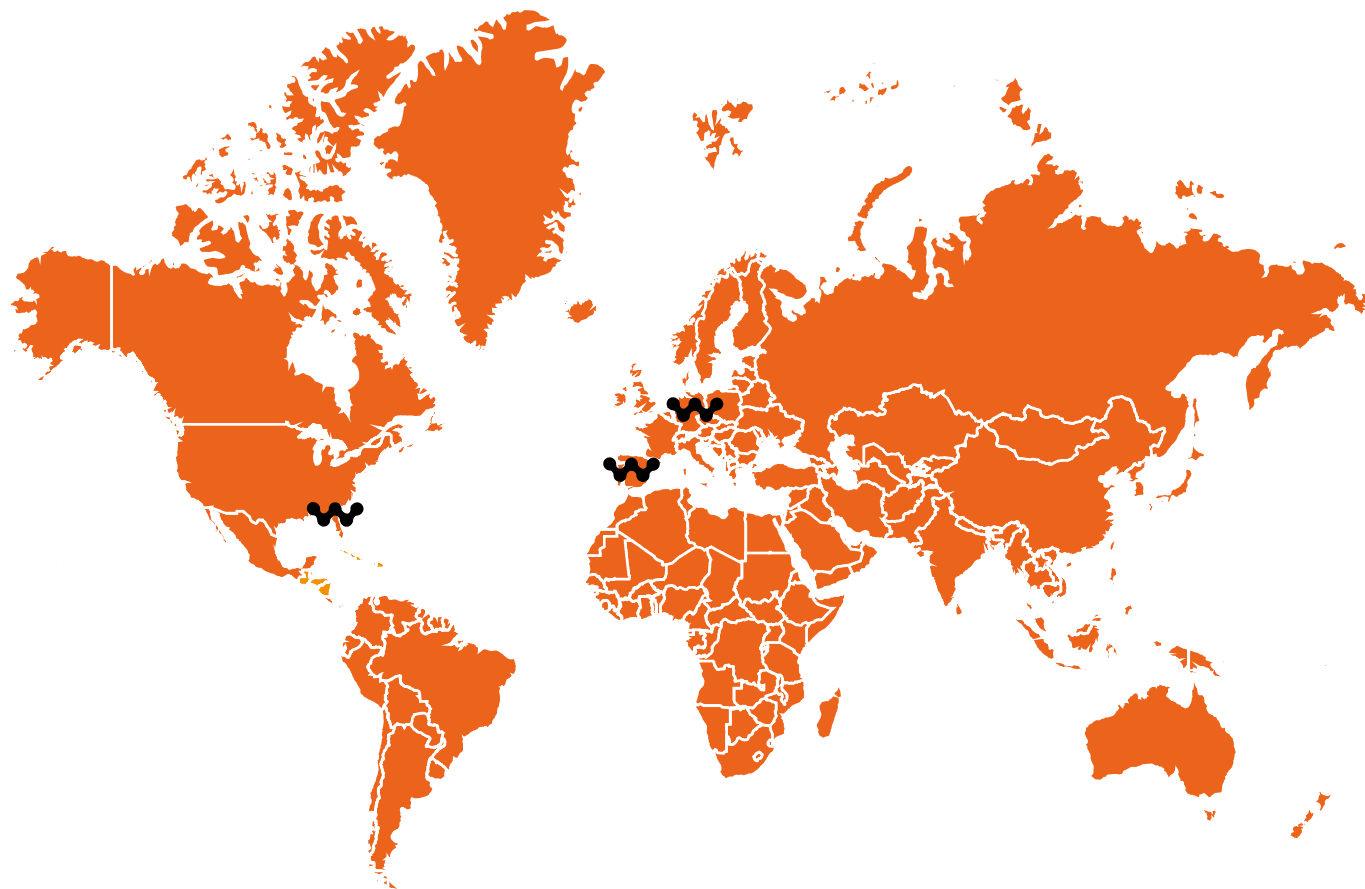
Silicone Sleeve (Ref. P.Fs)
Ideal for moisture environment with moderate friction. Protects the interior of fiberglass lead.



Braided Metal (Ref. P.Tm)
For places with high friction and constant flexibility. Stainless steel.

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Headquarters

<https://cartridge-heater.com>

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