

Self limit heater (single- / dual core)

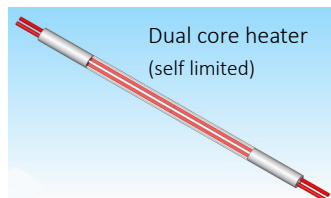
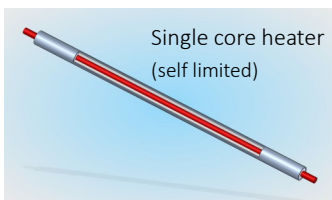
Core material	K = Constantan	Ni=Nickel	NC= NiCr80/20	BA=NiFe70/30				
Sheath material	VA=AISI 304L	VA2=AISI 304	VA3=AISI 316L	VA4=AISI 321	VA5=AISI 316TI	VA6=AISI 314	VA7=AISI 309	VA8=AISI 310S
	I=Inconel600	I2=Inconel601	I3=Inconel625	I4=Inconel800	I5=Inconel825			

Encoding scheme for requests and orders:

Number of cores - sheath material - core material - line resistance [Ohm/m] - diameter [mm]

Example:

1-I-BA-1,0-2,0: single core heater, sheath: „I“ (Inconel600), core: NiFe70/30, line resistance: 1,0hm/m, 2,0mm sheath diameter



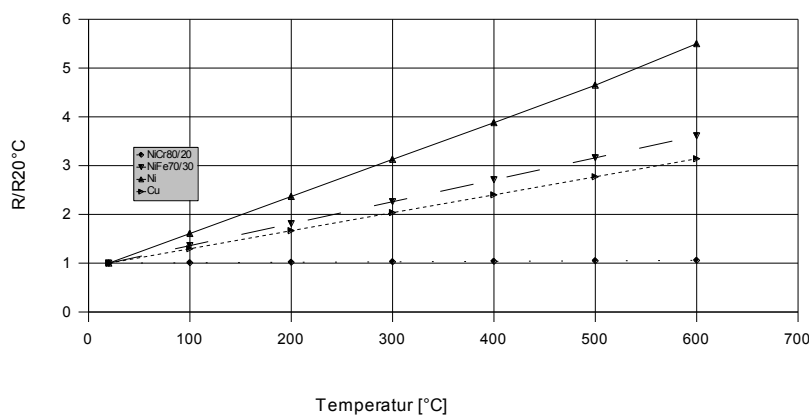
ThermSys manufactures heaters in standard and customized designs with dedicated properties in line resistance and sheath materials

Ø [mm]	Line resistance [Ohm/m] at 20°C	Order Code	
		Sheath Inconel600	Sheath stainless steel 1.4541
Single-core design:			
1,00	4,00	1-I-BA-4,0-1,0	1-VA4-BA-4,0-1,0
1,50	1,80	1-I-BA-1,8-1,5	1-VA4-BA-1,8-1,5
2,00	1,00	1-I-BA-1,0-2,0	1-VA4-BA-1,0-2,0
Dual-core design			
1,00	16,00	2-I-BA-16,0-1,0	2-VA4-BA-16,0-1,0
1,50	7,10	2-I-BA-7,1-1,5	2-VA4-BA-7,1-1,5
2,00	4,00	2-I-BA-4,0-2,0	2-VA4-BA-4,0-2,0

Technical data's / Handling:

- Resistance tolerance: +/-10% (standard)
- Sheath-Ø-tolerance: +/-0,05mm
- Core material: NiFe70/30 (standard)
- Sheath material: VA4 or I (standard)
- Bending radius: 2 - 3 x sheath-Ø
- Do not bend heater to often - depending from bending ratio and accumulated plastic deformations of the heater materials !
- Manufacturing lengths 40 - 200m depending on the sheath diameter
- Max. voltage / power over sheath depending on sheath diameter, temperature gradient heater to heated parts / thermodynamic max. possible flow energy from heater to heated part and heating up cycles. Please refer to our technical sheet "Handling and operation of ThermSys mineral insulated heaters and applications" we send on request or you can download on our website.
- Mineral insulation: Magnesium Oxide (MgO), other insulation on request
- Recommended use:
Stainless steel sheath up to 600°C,
Inconel600 sheath up to 1000°C

Change of line resistance core material- temperature (approximation)



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