

Single core heater (sold by the meter)

Core material	K=Constant	NI=Nickel	NC=NiCr80/20	BA=NiFE70/30				
Sheath material	VA=ISI 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=Inconel 625	I4=Inconel800	I5=Inconel825			

Encoding scheme for requests and orders:

1-sheath material-core material-line resistance (ohm/m)-diameter(mm)

Example:

1-I-NC-3,1-2,0 -> single core, sheath: I (inconel600), core: NiCr80/20, line resistance 3,10 ohm/m, sheat diameter 2,0 mm.

Technical data's & handling

- Resistance tolerance: +/-10% (standard)
- Sheath-Ø-tolerance: +/-0,05mm
- Core material: NiCr80/20 (standard)
- Sheath material: VA4 or I (standard)
- Bending radius: 2 - 3 x sheath-Ø
- Do not bend heater to often - depend-ing from bending ratio and accumulat-ed plastic deformations of the heater materials !
- Manufacturing lengths 40 - 200m depending on the sheath diameter
- Max. voltage / power over sheath depending on sheath diameter, tem-perature 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 down-load on our website.
- Mineral insulation: Magnesium Oxide (MgO), other insulation on request
- Recommended use:
NC core:
Stainless steel sheath up to 600°C,
Inconel600 sheath up to 1000°C
K core: max. 600°C

Ø [mm]	Line resistance [Ohm/m] at 20°C	Order Code	
		Sheath Inconel600	Sheath stainless steel
0,50	50,00	1-I-NC-50-0,5	1-VA4-NC-50-0,5
1,00	12,50	1-I-NC-12,5-1,0	1-VA4-NC-12,5-1,0
1,50	5,50	1-I-NC-5,5-1,5	1-VA4-NC-5,5-1,5
2,00	3,10	1-I-NC-3,1-2,0	1-VA4-NC-3,1-2,0
2,50	2,00	1-I-NC-2,0-2,5	1-VA4-NC-2,0-2,5
3,00	1,40	1-I-NC-1,4-3,0	1-VA4-NC-1,4-3,0
4,00	0,78	1-I-NC-0,78-4,0	1-VA4-NC-0,78-4,0
1,00	28,00	1-I-NC-28-1,0	1-VA4-NC-28-1,0
1,50	12,50	1-I-NC-12,5-1,5	1-VA4-NC-12,5-1,5
2,00	7,00	1-I-NC-7,0-2,0	1-VA4-NC-7,0-2,0
2,50	4,50	1-I-NC-4,5-2,5	1-VA4-NC-4,5-2,5
3,00	3,10	1-I-NC-3,1-3,0	1-VA4-NC-3,1-3,0
4,00	1,75	1-I-NC-1,75-4,0	1-VA4-NC-1,75-4,0
1,50	22,00	1-I-NC-22-1,5	1-VA4-NC-22-1,5
3,20	10,00	1-I-NC-10,0-3,2	1-VA4-NC-10,0-3,2
3,20	6,30	1-I-NC-6,3-3,2	1-VA4-NC-6,3-3,2
3,20	4,00	1-I-NC-4,0-3,2	1-VA4-NC-4,0-3,2
3,40	2,50	1-I-NC-2,5-3,4	1-VA4-NC-2,5-3,4
3,60	1,60	1-I-NC-1,6-3,6	1-VA4-NC-1,6-3,6
3,60	2,50	1-I-NC-2,5-3,6	1-VA4-NC-2,5-3,6
3,90	1,00	1-I-NC-1,0-3,9	1-VA4-NC-1,0-3,9
4,10	1,00	1-I-NC-1,0-4,1	1-VA4-NC-1,0-4,1
4,30	0,63	1-I-NC-0,63-4,3	1-VA4-NC-0,63-4,3
4,70	0,40	1-I-NC-0,40-4,7	1-VA4-NC-0,40-4,7
5,30	0,25	1-I-NC-0,25-5,3	1-VA4-NC-0,25-5,3
3,40	1,00	1-I-K-1,0-3,4	1-VA4-K-1,0-3,4
3,70	0,63	1-I-K-0,63-3,7	1-VA4-K-0,63-3,7
4,00	0,40	1-I-K-0,40-4,0	1-VA4-K-0,40-4,0