

Technical Data Sheet
ThimmTherm HSQ Heating Cable

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Area of Application

Mineral insulated and VA-sheathed industrial heating cable for heating pipelines, containers and surfaces for frost protection and maintenance and increase of temperature. Suitable for use in hazardous areas. Heating cable and connection system certified by Sira Certification Service. Operating voltage max. 750 V.

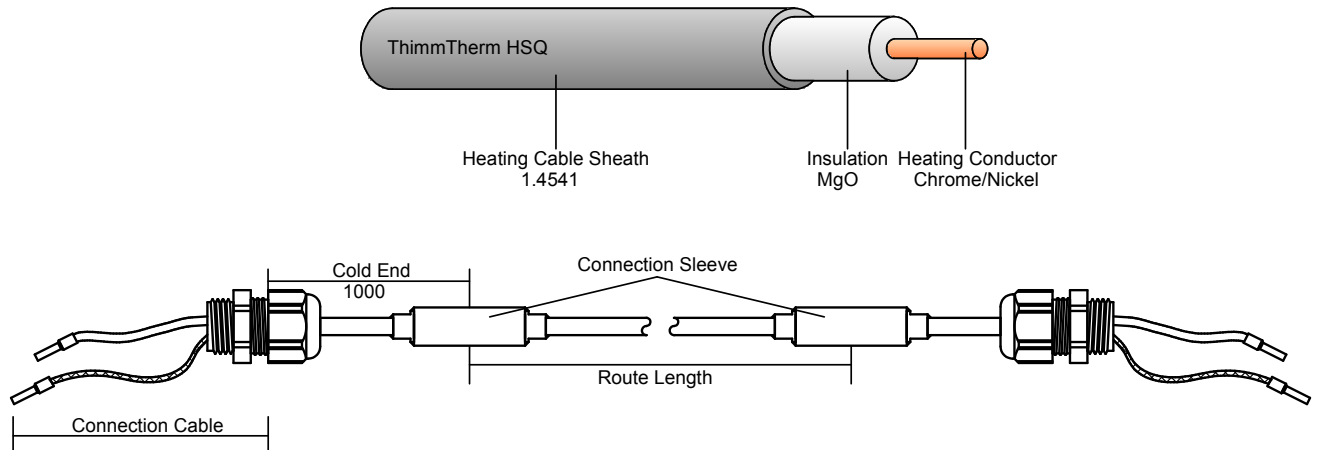
Design Features

Heating conductor:	Manufactured from one single wire, Material: chrome/nickel.	
Heating conductor insulation:	Material: magnesium oxide	
Sheath:	Material: VA1.4541	
Resistance range:	160...1000 Ohm per km 1600...10000 Ohm per km	Test voltage max. 2,5 kV Test voltage max. 2,0 kV
Sheath diameter:	3,2...3,8 mm 4,1...6,5 mm	Test voltage max. 2,0 kV Test voltage max. 2,5 kV
Diameter of internal conductor:	0,38...3,03 mm	
Cross section of internal conductor:	0,11...7,2 mm ²	
Operating temperatures:	Maximum permissible temperature (continuous): up to 600° C	
ATEX-approval:	For mineral insulated cable units Certificate-number: Sira 03 ATEX 3590	
Test voltage:	max. 2,5 kV	

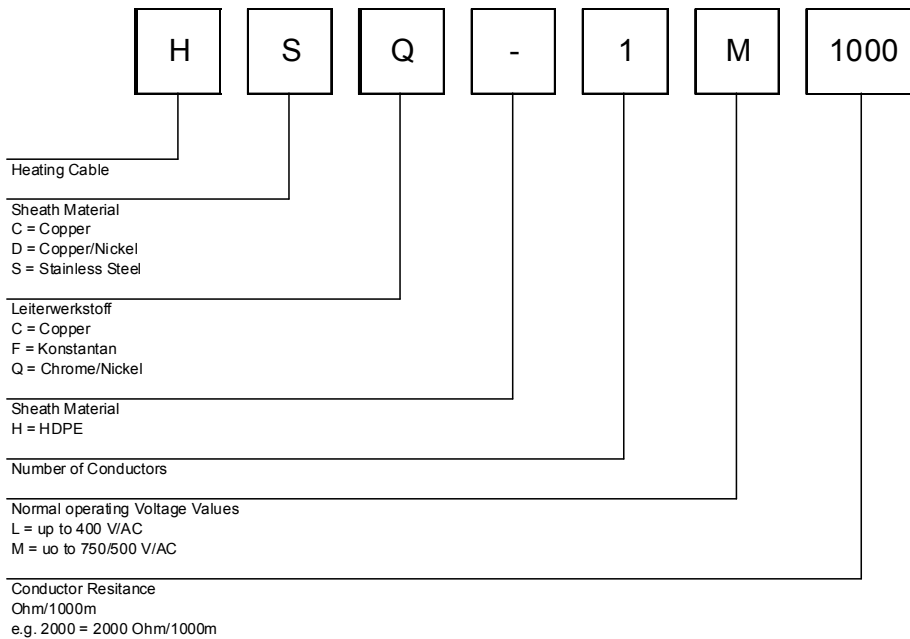
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Design



Type Designation



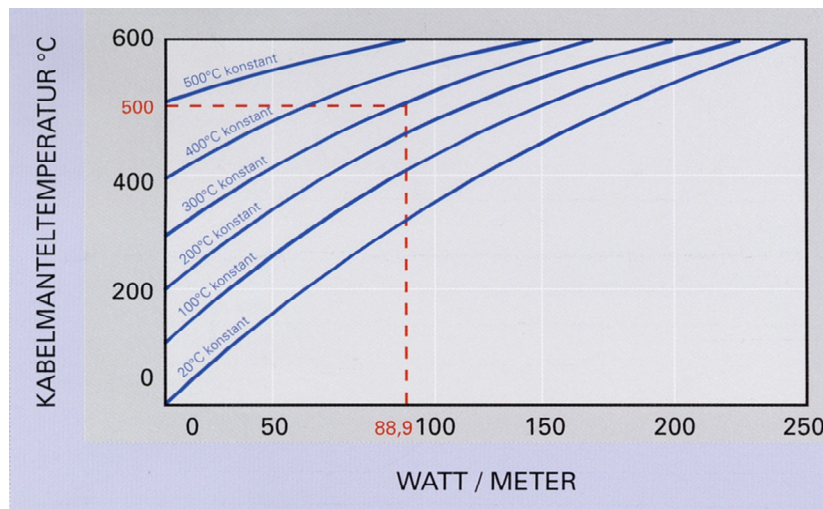
Measures

Type Designation	Resistance Ohm/1000m bei 20° C	Diameter (mm)
HSQ 1M 10000	10000	3,2
HSQ 1M 6300	6300	3,2
HSQ 1M 4000	4000	3,2
HSQ 1M 2500	2500	3,6
HSQ 1M 1600	1600	3,8
HSQ 1M 1000	1000	4,1
HSQ 1M 630	630	4,5
HSQ 1M 400	400	5,0
HSQ 1M 250	250	5,6
HSQ 1M 160	160	6,5

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Determinating the Maximum Operating Temperature



Type Designation	Factor
HSQ 1M 10000	1,000
HSQ 1M 6300	1,000
HSQ 1M 4000	1,000
HSQ 1M 2500	0,889
HSQ 1M 1600	0,842
HSQ 1M 1000	0,780
HSQ 1M 630	0,711
HSQ 1M 400	0,640
HSQ 1M 250	0,571
HSQ 1M 160	0,492

- Step 1 Identify the type designation for the calculation and then calculate the watt/meter-rating of the cable/element, for instance HSQ 1M 2500; 100 W/m.
- Step 2 Consult the rating factor table and multiply the watt/meter-rating of the cable/element with the rating factor to receive the adapted watt/meter-value (example: 100 W/m x 0.889 = 88.9 W/m).
- Step 3 Fill in the adapted value on the diagram at the watt/meter-axis to receive the cable sheath temperature for a constant temperature application. Cable sheath temperature = 500° C for 300° C constant – regard table.