

Technical Data Sheet
ThimmTherm HSF 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 non hazardous areas. Operating voltage max. 500 V.

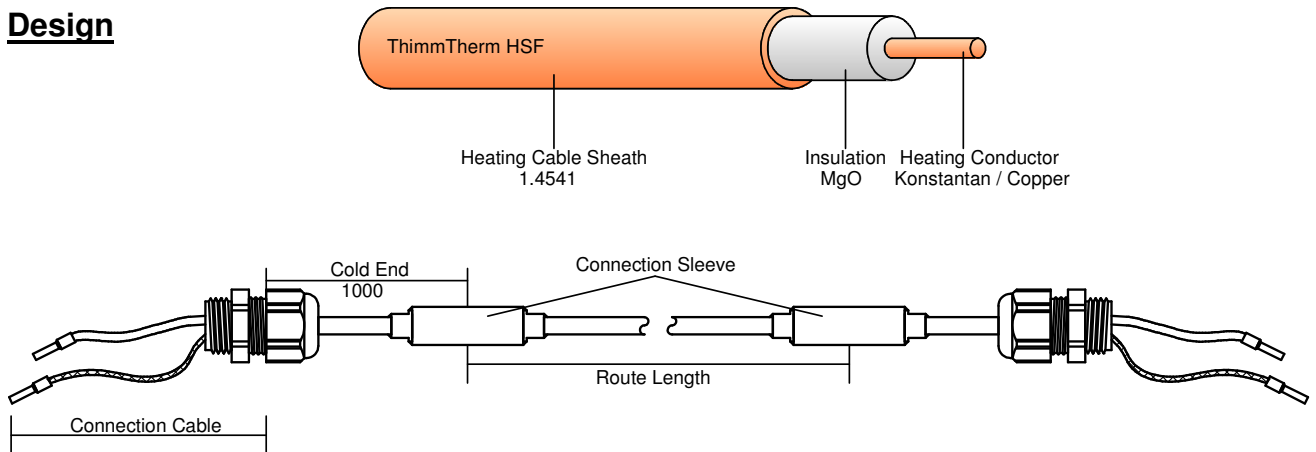
Design Features

Heating conductor:	Manufactured from one single wire, Material: Konstantan (copper-nickel) or copper
Heating conductor insulation:	Material: magnesium oxide
Sheath:	Material: 1.4541 (stainless steel)
Resistance range:	4...1600 Ohm per km
Measure:	3,2...4,9 mm
Minimum bending radius:	2.5 times nominal diameter of heating cable
Operating temperatures:	Maximum permissible temperature (continuous): up to 400° C
Test voltage:	max. 2 kV

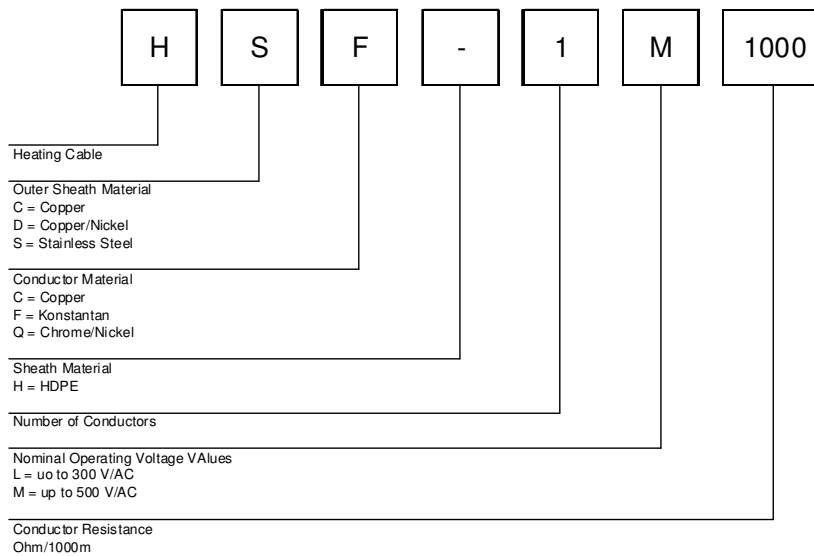
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Design



Type Designation



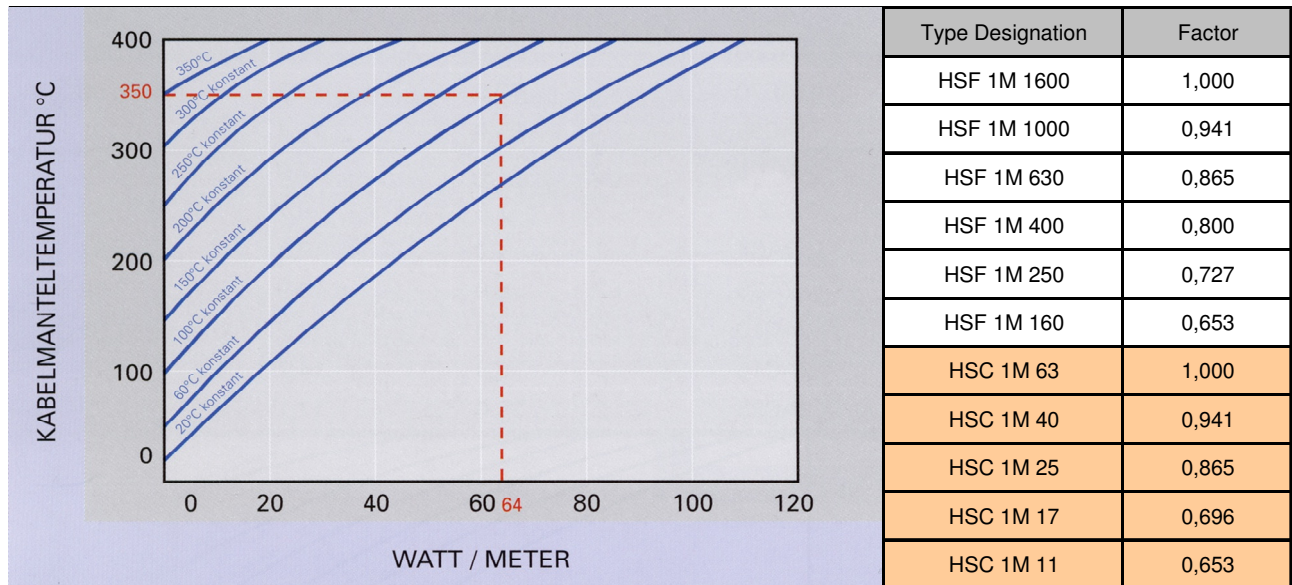
Measures

Type Designation	Resistance Ohm/1000m at 20° C	Diameter (mm)
HSF 1M 1600	1600	3,20
HSF 1M 1000	1000	3,40
HSF 1M 630	630	3,70
HSF 1M 400	400	4,00
HSF 1M 250	250	4,40
HSF 1M 160	160	4,90
HSC 1M 63	63	3,20
HSC 1M 40	40	3,40
HSC 1M 25	25	3,70
HSC 1M 17	17	4,60
HSC 1M 11	11	4,90

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Determinating the Maximum Operating Temperature



- Step 1 Identify the type designation for the calculation and then calculate the watt/meter-rating of the cable/element, for instance HSF 1M 400; 80 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: $80 \text{ W/m} \times 0.800 = 64.00 \text{ W/m}$).
- Step 3 Fill in the adapted value on the diagramm at the watt/meter-axis to receive the cable sheath temperature for a constant temperature application. Cable sheath temperature = 350° C for 150° C constant – regard table.