

Technical Data Sheet

ThimmTherm PTFE Heating Cable

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Area of Application

PTFE-insulated and PTFE- sheathed industrial heating cables for heating pipe runs, containers and surfaces for frost protection and to maintain and increase temperature.

The heating cables are particularly suitable for use in the chemical industry because of their extreme resistance to corrosion, even when in direct contact with acids and bases.

Design features

Heating conductor:	Designed as flexible conductor with at least 7 individual wires, Resistance range 10...14000 Ohm/km. Tensile strength >120 N in accordance with VDE 0253/12.87, part 5.1.1 Materials used are in accordance with DIN 17 470 and 17 471.
Heating conductor	
Insulation material:	polytetrafluorethylene (PTFE), trade names TEFLON® or HOSTAFLON ®.
Insulation wall thickness:	0.70mm (in accordance with VDE 0253/12.87, table 4) Typical construction: NH5YQU5Y-WM according to items 3 and 5.2
Serving:	Protective braid in accordance with VDE 0253/12.87, item 5.4, consisting of nickel-plated individual wires 0.16 m diameter. Minimum covering 70 %. Resistance <18.2 Ohm/km
Sheath:	Material polytetrafluorethylene (PTFE). Alternatively: high-density polythene (HDPE). Trade name TEFLON® Sheath wall thickness: 0.6 mm in accordance with VDE 0253/12.87, table 5.4.1
Resistance range:	10..... 14000 Ohm per km
Diameter:	3.6..5.3 mm
Minimum bending radius:	2.5 times nominal diameter of heating cable
Operating temperatures:	Maximum permissible temperature (continuous): 260° C Maximum permissible short-time temperature: 300° C*

*e.g. in the case of steam cleaning or similar, in accordance with DIN/VDE, 1000 h cumulative.

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