

PE Thermoline

Product Data Sheet

Product Description

The PE Thermoline pipe is a ready-made solution that prevents the transported substance from freezing or eliminates moisture condensation on pipelines carrying a medium at a temperature lower than the ambient temperature. Its core is a PE pipe with a food-grade certificate and dimensions compliant with relevant standards. The standard dimensions allow the use of commonly available fittings and connectors.

Depending on requirements, a self-regulating heating cable can be installed along the entire length of the pipeline. Once connected to a power supply, it prevents the liquid inside the pipe from freezing. The entire assembly is covered with a closed-cell polyethylene foam insulation. For all available diameters, an additional protective conduit can be added to provide resistance against mechanical damage.



Photo. PE Thermoline pipeline in the version with heating cable and insulation

Application

- External and internal water supply installations in residential and industrial buildings
- Internal pipelines in agricultural facilities exposed to sub-zero temperatures
- Seasonal (garden, recreational) and year-round installations

Technical specifications

- Freeze protection of the medium down to approx. $-15\text{ }^{\circ}\text{C}$ (depending on insulation humidity)
- Easy installation – standard pipe diameters
- Resistance to UV, moisture and atmospheric conditions
- Materials in contact with the product approved for food contact

Self-regulating heating cable::

- automatic power adjustment to temperature – reduced energy consumption and protection against overheating
- can be cut to any length
- maximum operating temperature of the cable: $65\text{ }^{\circ}\text{C}$
- minimum bending radius: 30 mm
- maximum heating circuit length for an 11 W/m cable with a type C 16 A at $-10\text{ }^{\circ}\text{C}$: 105 m
- maximum heating circuit length for an 11 W/m cable with a type C 16 A at $-20\text{ }^{\circ}\text{C}$: 98 m

Technical parameters

Parameter	Value / options
Pipe material	PE (polyethylene)
Nominal diameters	DN25, DN32, DN40, DN50 according to PN-EN 12201-2:2011, dimension series SDR11; PN16
Heating cable	Self-regulating, nominal power 11 W/m (at $\sim 0\text{ }^{\circ}\text{C}$)
Insulation	Closed-cell PE foam, thickness 9 or 13 mm according to EN 14313:2009+A1:2013
Heating cable supply	230 V AC
Cable installation	Longitudinal, under insulation
Max. circuit length at $-10\text{ }^{\circ}\text{C}$	95 m (10 A, type C) / 105 m (16 A, type C)
Order length	100m

Product range

Selection table for the product range for PEHD 100 PN16 pipes				
Product label	Pipeline diameter DN × wall thickness [mm] PN16	Insulation thickness [mm]	Heating cable power [W] *	Protective conduit pipe
TE	25x2,3	9 /13 [mm]	0 / 11 / 17 [W]	RO
	32x3,0			
	40x3,7			
	50x4,6			

* - Nominal heating cable power at 0 °C

Example selection of the product range: **TE32/9/0/RO**

TE32/9/0/RO – A DN32 HDPE PE100 pipeline with 9 mm PE insulation, without a heating cable, installed inside a protective conduit pipe

Available product configurations

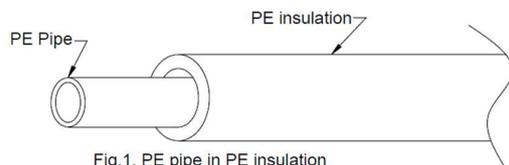


Fig.1. PE pipe in PE insulation

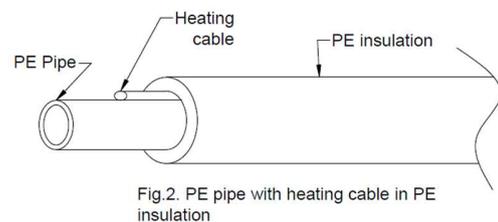


Fig.2. PE pipe with heating cable in PE insulation

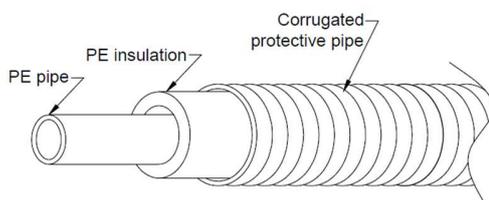


Fig.3. PE pipe in insulation and corrugated protective pipe

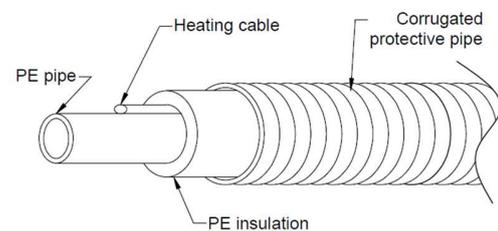


Fig.4. PE pipe with heating cable in insulation and corrugated protective pipe