General information

Frozen water pipe can burst and cause extensive damages and inconveniences. Heating cable which is installed inside (DVI) and outside (DVU) the pipes is a simple and safe solution to prevent the bursting of the pipe. Water pipe with the heating cable inside should be always insulated, usually by 30 to 100 mm insulation depending on how cold it is.

Where to use the frost protection

Frost protection of pipes can be a big advantage installed in:

- Summer houses
- Site huts
- Stables
- Garages
- Cable pits
- Water systems
- Drains, gutters

DVU & DVI cables regulate heating metre by metre, depending on how cold it is!

Assembling

Frost protection cable (DVU) is installed outside the pipe. When a higher heating effect is needed the cable can be wound round the pipe. The cable is fixed underneath the pipe with the help of Alu-tape, which provides a low contact resistance to the pipe and distributes heating well.

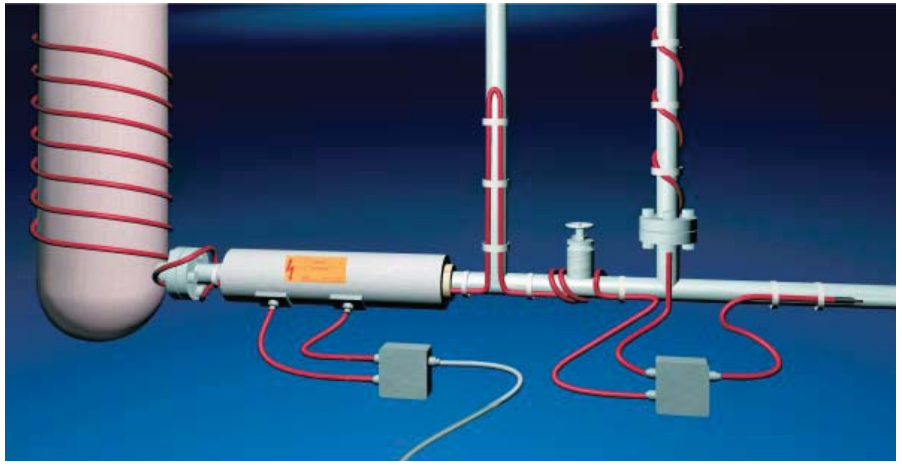
Frost protection cable (DVI) is installed inside the pipes. Assembling should be carried out on a new installed pipe stretching before any sediments appear in the pipe. It is recommened to install heating cable and pipe stretching together at the same time.

Cables with thermostats

There are 2 types of thermostats for self regulating cables: orange (not waterproof) & black (waterproof). Place the thermostat on the black cable in the coldest place. Fix the thermostat with 2 cable binders if necessary. The thermostat activates the heating cable when the temperature is under +5 ºC.

- Indicated max temperatures for different installations and operation should be observed.
- The heating cable should be protected from any physical damage.
- The pipe should be clean and not contain any sharp objects.
- Bending diameter of cable must not be less than 25 mm. The cable can be bent on the flat side.
- It is not recommended to install the cable when the temperature is below 0 ºC

NB: Only waterproof thermostat (black) can be placed in the moist environment.



DVK-00234-001

HANDYHEAT®

DANSK VARMEKABEL A/S

Instruction manual
Frost protection cable DVU / DVI



Instruction manual DVU / DVI
Frost protection

English DVK-00234-001

Before installation
Thank you for your choice of HandyHeat frost protection. Before starting the installation of the system we kindly recommend to read this manual thoroughly. Check if you have all necessary materials and tools and make a sketch of the pipe stretching where the frost protection heating cable will be installed.

Tools
During the installtion of DVU you will need scissors & Stanley knife.
During the installtion of DVI you will need a spanner set.

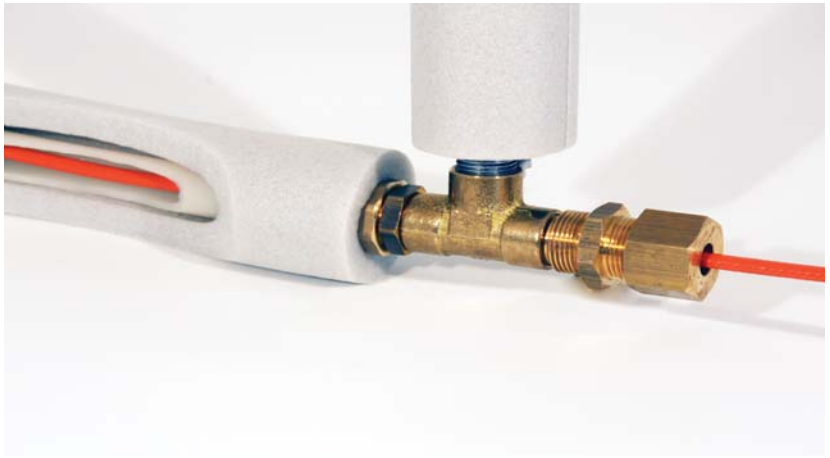
Materials
DVU Frost protection cable is fixed with the help Alu-tape, which should be bought separately (EAN nr. 000527). Insulation, pipe bowl or similar.
DVI frost protection cable is installed in plastic or metal water pipes. Remember to get the necessary fittings. Usually T-types are used suitable for the type of pipe layout. Recommended pipe diameter is minimum 1". The pipe should be insulated with the pipe bowl or similar.

DVU /DVI Selfregulating frost protection heating cable

Self limiting heating cable consists of temperature dependent element of heating resistor between 2 parallel copper conductors. When cable is connected to mains voltage, current goes through the resistance element thereby heating it. When the element is heated the resistance is growing & current is falling, that's why heating is limited. This is the way how the self limiting effect works.
This regulation of the effect takes place in every meter of the heating cable regardless of ambient temperature.
DVU & DVI cables are applied where the certain temperature in tube constructions is needed: for example, drain constructions of buildings, industrial objects etc.



DVU cable installed in PEX / PEL pipe



DVI cable installed in PEL pipe

Technical data

Type:	DVU / DVI
Voltage supply:	230 VAC, 50 Hz
Power:	13 Watt pr. metre
Dimensions:	7,9 x 5,6 mm
Heating element:	Carbon/ PE
Cover jacket:	TPE
Min. installation temperature:	0 °C
Thermostat (for type with therm.):	Switching on at +5 °C (cable is active) Switching off at +8 °C (cable is inactive)
"Cold" cable:	2 metre with a plug
Max. temperatur:	65 °C
Approvals:	CE

