

## PRODUCT DATA SHEET

### Single cool with frost protection

Hyper flexible, pre-insulated piping system with a single medium pipe, primarily intended for the transport of cold potable water, cooling water, waste water or other fluids, in buried distribution networks.

The medium pipe is made from high density polyethylene HDPE-100 according to EN 12201 and can operate at pressures up to 16 bar. An integrated self-regulating 10 W/m heating cable prevents stagnant water from freezing.

The multilayer thermal insulation is made from cross-linked, microcellular polyethylene PE-X foam with a water-repellent closed cell structure, characterized by its durable, non-ageing insulation performance, and its permanent elasticity, maximizing and maintaining the thickness of the insulation layer, even after bending multiple times.

The high-grade, black coloured UV-resistant, double walled, corrugated HDPE jacket pipe shields the pre-insulated piping system against mechanical impacts and moisture, whilst maintaining maximum flexibility.



- Medium pipes: HDPE-100/SDR 11/PN 16
- Operating temperature range: from -20°C up to 20°C (PN 16) from 20°C up to 40°C (max. PN 11,8 at 40°C)
- PE-X insulation foam: < 1% water absorption in accordance with ISO 2896
- Full coil length, all dimensions: 100 m
- CFC-free production process

### Single cool with frost protection

Art. No.	Jacket pipe	Medium pipe		Bending radius	Water content	Weight
	d <sub>out</sub> [mm]	d <sub>out</sub> x s [mm]	d <sub>in</sub> [mm]	[m] <sup>(1)</sup>	[l/m]	kg/m
<b>C7525W10</b>	75	25 x 2,3	20,4	0,20	0,327	0,7
<b>C7532W10</b>	75	32 x 2,9	26,2	0,20	0,539	0,8
<b>C9040W10</b>	90	40 x 3,7	32,6	0,30	0,835	1,2
<b>C14050W10</b>	140	50 x 4,6	40,8	0,40	1,307	2,2
<b>C14063W10</b>	140	63 x 5,8	51,4	0,50	2,075	2,5
<b>C16075W10</b>	160	75 x 6,8	61,4	0,75	2,961	3,3
<b>C16090W10</b>	160	90 x 8,2	73,6	1,00	4,254	4,0
<b>C200110W10</b>	200	110 x 10,0	90,0	1,20	6,362	5,8
<b>C200125W10</b>	200	125 x 11,4	102,2	1,40	8,203	6,2

<sup>(1)</sup> The indicated minimum bending radius can be applied permanently without affecting the system's quality or performance

To prevent ingress of (ground) water, Terrendis prescribes the usage of shrink end caps to seal the extremities of the non-bonded piping system. Failing to do so involves a genuine damage risk and automatically voids the system warranty.

## CONNECTION KIT FOR SINGLE COOL PIPE WITH FROST PROTECTION CABLE

Our single cool pipes with frost protection cable are equipped with a self-regulating 10 W/m heating cable to prevent stagnant water from freezing.

The heating cable must be connected to a 220 VAC/50-60 Hz line to operate. It is recommended to protect the circuit with a 30 mA residual current circuit breaker and a fuse of 16 A.

The use of an ambient thermostat is strongly recommended in order to:

- Automatically switch on/off the power supply of the heating cable at a pre-set temperature (e.g. 2°C)
- To prevent the heating cable being constantly under tension even when surrounding temperatures are well above the freezing point

The total length of the heating cable should not exceed 100 m. Where longer heating cables are required, separate power supplies should be foreseen, each feeding maximum 100 m cable.

The heating cable can be cut to any desired length (< 100 m and as a function of the pipe length).

To assure proper functioning of the cable and to prevent possible short circuits, the cables two conductive wires should be electrically insulated from each other.



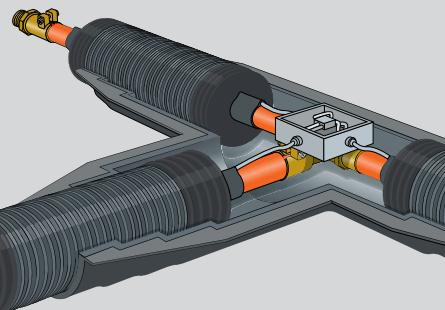
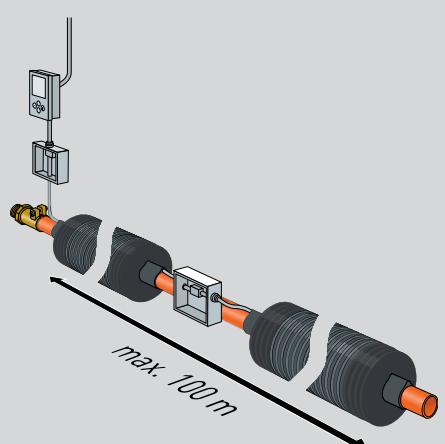
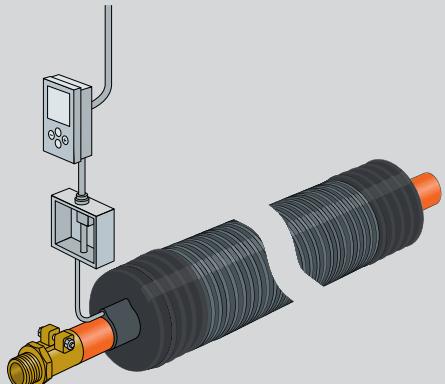
### HCTHERM ambient thermostat

Wall mounted ambient thermostat.



### HCBOX electrical junction box

This PVC junction box is used to connect the heating cable with the power supply line.



Art. No.
HCTHERM
Protection class: IP 54
Regulation range: -10°C up to 40°C
Switching Power: 16 A/230 VAC
Voltage: 230 VAC
Standard setting: 0°C

Art. No.
HCBOX

### HCSL electrical connection and insulation kit

This kit is used to connect the heating cable to the power supply and electrically insulate the wire ends.

Art. No.
HCSL
1x bulkhead fitting
3x heat shrink sleeves to insulate the power wires and grounding cable
1x long heat shrink sleeve to insulate the heating cable at the connection
2x shorter heat shrink sleeves to insulate the extremities of the heating cable