

Recommended pipe insulation thickness

Temperature to maintain [°C]	Pipe diameter [mm]					
	15	22	28	35	42	54
55	20	20	25	30	37	50
50	12	12	19	25	25	37

Max. length and circuit breaker size for WARM WATER PIPE

Max. length [m]	30	50	80	120
Circuit breaker size	6 A	10 A	16 A	20 A

Technical data

Cable type	Rated voltage	Bus bar cross section	Insulation material	Screen	Outer sheath	Min. bending radius	Max. temperature	
							Energized	De-Energized
DEFROST PIPE 15	230 VAC	2x0.57 mm ²	PEX	Al-tape + drain wire	Polyolefin	15 mm	65° C	80° C
DEFROST PIPE 20/GUTTER	230 VAC	2x1.23 mm ²	PEX	Al-tape + drain wire	Polyolefin	15 mm	65° C	80° C
DEFROST PIPE 30	230 VAC	2x1.23 mm ²	PEX	Al-tape + drain wire	Polyolefin	15 mm	65° C	80° C
WARM WATER PIPE	230 VAC	2x1.23 mm ²	PEX	Al-tape + drain wire	Polyolefin	15 mm	80° C	100° C
DEFROST WATER	230 VAC	2x1 mm ²	PE	Al-tape + drain wire	PE	15 mm	-	-

Cable type	EAN-13	Output	Dimensions	Max. length	Max. circuit breaker size
DEFROST PIPE 15	7045210028713	15 W/m at 5° C	8,3 x 5.8 mm	100 m	16 A
DEFROST PIPE 20/GUTTER	7045210028720	22 W/m at 5° C	13,0 x 4.9 mm	155 m	32 A
DEFROST PIPE 30	7045210028737	33 W/m at 5° C	15,6 x 5.3 mm	120 m	32 A
WARM WATER PIPE	7045210028744	9 W/m at 55° C	10,1 x 3.2 mm	120 m	20 A
DEFROST WATER	7045210030303	24 W/m at 5° C	7.0 mm	60 m	10 A

Accessories

Description	Cable type	EAN-13
Splice kit	DEFROST PIPE WARM WATER PIPE	7045210030259
Connection and termination kit	DEFROST PIPE WARM WATER PIPE	7045210030235
Connection and termination kit	DEFROST WATER	7045210030242
Fastening tape, armoured	DEFROST PIPE WARM WATER PIPE	7045210030235
Alu-tape for temperature distribution	DEFROST PIPE WARM WATER PIPE	7045210030273
Gland, 12 Bar, 3/4"	DEFROST WATER	7045210030419

Approvals:
 DEFROST PIPE: FIMKO, GOST, LCIE, EEx e II T6
 WARM WATER PIPE: CSTB, LCIE

Accessories for self-limiting heating cables



Servicelink Nexans Norway gives you direct information at www.nexans.no



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Self-limiting heating cables for frost protection and maintenance of pipe temperatures

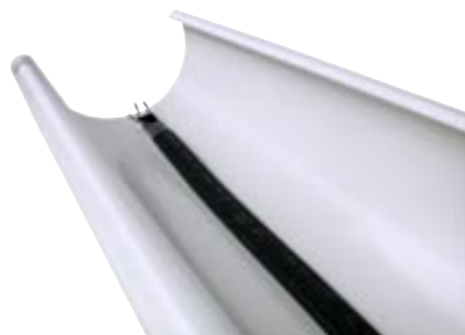




DEFROST PIPE

For frost protection of pipes, roof gutters and drains

DEFROST PIPE is a range of self-limiting heating cables which are recommended for frost protection of water pipes, tanks, roof gutters and drains. Many people have experienced blockage or maybe even leakage due to frozen water pipes. DEFROST WATER will prevent this in a safe, durable and reliable way. Remember that a water pipe with a surrounding temperature of 0° C or lower will freeze at some point no matter how well it is insulated. The only way to prevent this is to supply energy to the pipe. This is easily done by heating the pipe with a self-limiting heating cable.

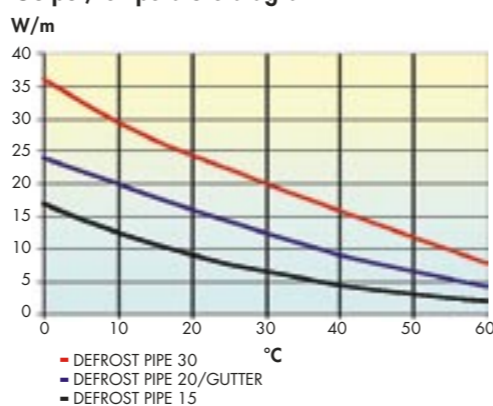


DEFROST PIPE 20/GUTTER

Frost protection of roof gutters and drains is not only practical and economic. It is also a matter of safety for people on the ground. At temperatures around 0° C blocks of ice or icicles which can fall down from the roof, or block the drains can be formed. DEFROST PIPE 20/GUTTER is especially suitable to prevent this, and may be regarded as a universal cable for this field of use. The self-limiting properties ensure high output in the melting stage, and low energy consumption at higher temperatures

All variants of DEFROST PIPE can be cut-to-length within the given limits, and is very flexible in respect to variable heights or lengths.

Output/temperature diagram



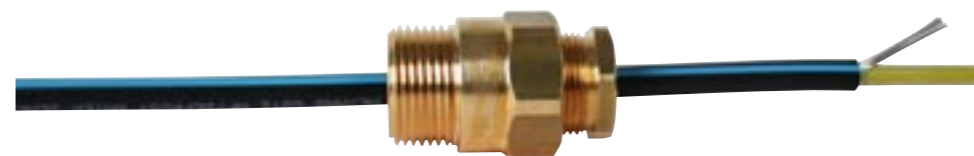
Start-up temperature, max. length and circuit breaker size for DEFROST PIPE

Cable type	Temp. [°C]	In-rush current [A/m]	Max. length [m]			Circuit breaker size		
			6 A	10 A	16 A	20 A	25 A	32 A
DFP 15	5° C	0.083	90	100	-	-	-	-
	0° C	0.086	84	100	-	-	-	-
	-20° C	0.12	57	95	100	-	-	-
	-30° C	0.13	50	84	100	-	-	-
DFP 20/GUTTER	5° C	0.12	52	87	139	155	-	-
	0° C	0.14	48	80	129	140	155	-
	-20° C	0.18	34	57	90	113	140	-
	-30° C	0.20	30	50	80	100	124	155
DFP 30	5° C	0.17	36	60	96	120	-	-
	0° C	0.20	34	57	90	100	110	120
	-20° C	0.24	26	44	70	87	109	120
	-30° C	0.26	23	39	62	77	97	110



DEFROST WATER

For frost protection of drinking water pipes



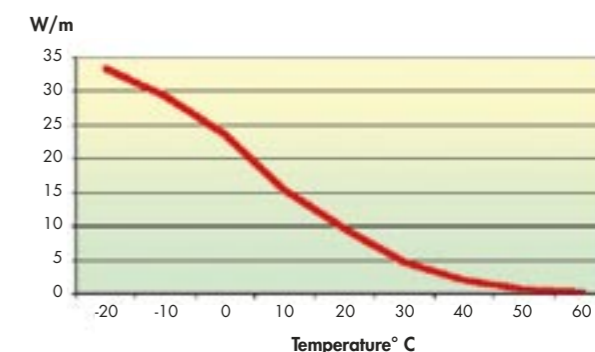
DEFROST WATER is ideal for internal installation in drinking water pipes. The cable is watertight and the outer sheath material is approved by the health authorities for this use. This means that it will not influence the quality of the water. The cable is circular shaped, which is the optimal solution in order to obtain a watertight insertion to the pipe.

The heating cable is self-limiting in respect to the pipe temperature. This means that the cable will never overheat.

DEFROST WATER can be cut-to-length within the limits given in the technical tables. The corresponding gland is approved for a water pressure of 12 bar.

Output/temperature diagram

DEFROST WATER, W/m in water



WARM WATER PIPE

For maintenance of hot water temperatures



The water heater is often placed at some distance from the tap. The time it takes for the hot water to reach for example the shower can be experienced as long. In addition it also leads to unnecessary water consumption. Self-limiting cables are suitable for maintenance of hot water temperatures. The heating cable is self-limiting in respect to the pipe temperature. The self-limiting properties ensures instant hot water, at the same time as it provides a 100 % protection against overheating.

WARM WATER PIPE is used to maintain the water temperature at approx. 55° C. The temperature will depend on the pipe dimension, thickness of the insulation, room temperature etc.

WARM WATER PIPE can be cut-to-length within the given limits.



Output/temperature diagram for WARM WATER PIPE

