

Features

- Reliably prevents ice and snow formation
- Ensures safe movement of people and vehicles in winter
- Many fields of application (e.g. roofs, driveways)
- Saves the hassle of shoveling snow
- Pre-assembled mats for quick and easy installation
- Suitable for installation in melted asphalt

Description

Application

As an electric ice and snow melting system for open areas, such as driveways, ramps, sidewalks or parking lots, the heating mats enable safe movement for people and vehicles in private and public areas by quickly and effectively removing ice and snow formations with a power of 300 W/m², or efficiently prevent the formation of ice and snow. Not only in winter, but also in case of e.g. over-freezing wetness in the transitional period. The heating cable can withstand high temperature exposure of up to 240 °C for a short time, which allows the heating mat to be directly poured in melted asphalt.

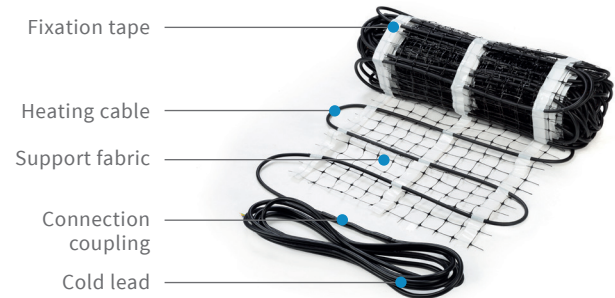
Construction

The EcoFROST-MT heating mats consist of a series resistance heating cable with a special temperature-resistant polyolefin outer sheath, equipped with a power-supply cable (5m length), a connection coupling and an end termination. The heating cable is arranged meandering on a flexible, grid-shaped mesh and fixed with an adhesive tape, providing constant cable-to-cable distance. The installation width of the heating mat is 0.5 m. The sheathing of the heating conductors with aluminum tape with 100% coverage inside the cable provides additional mechanical strength and, together with a copper drain wire, also serves as earth screen for safe use. The double-core construction with only one connection wire makes installation on site much easier.

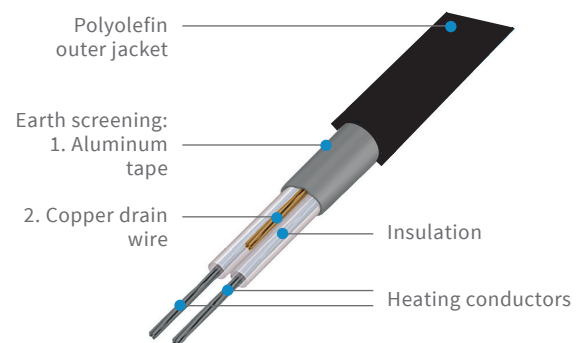
Application

Application	Installation
Open area	Concrete (sand embedding)
Roof	Under hot asphalt (short-time)
Gutter & Drain pipe	Open (UV resistant)
Pipes & Lines	


Design



Cable design



Technical data

Rated voltage	230 V AC
Nom. power output	300 W/m ²
Maximum operation temperature	
under load (at normal operation)	+105 °C
without load (short-termed)	+240 °C (max. 10 minutes)
Minimum operation temperature	-15 °C
Minimum storage temperature	-30 °C
Minimum installation temperature	-10 °C
Installation width	0.5 m
Cold lead length	5 m
Heating cable diameter	~ 7 mm
IP protection class	IPX7
Mechanical class	M2 (acc. IEC 60800)
Heating cable colour	black
Fiberglass mesh colour	black
Certifications	 RoHS

Ordering information

EcoFROST-MT-750-2.5/300

Heating mat type	_____
Power, W	_____
Area, m ²	_____
Nom. power per square meter, W/m ²	_____

Products

Double-core heating mat for open areas EcoFROST-MT, 300 W/m ²						
Mat type	Mat width, m	Mat length, m	Area, m ²	Power, W	Total resistance (Ω), Nom. @ +20°C (-5%, +10%)	Current, A
EcoFROST-MT-180-0.5/300	0.5	1	0.5	180	293.9	0.78
EcoFROST-MT-300-1.0/300	0.5	2	1.0	300	176.3	1.30
EcoFROST-MT-480-1.5/300	0.5	3	1.5	480	110.2	2.09
EcoFROST-MT-630-2.0/300	0.5	4	2.0	630	84.0	2.74
EcoFROST-MT-750-2.5/300	0.5	5	2.5	750	70.5	3.26
EcoFROST-MT-960-3.0/300	0.5	6	3.0	960	55.1	4.17
EcoFROST-MT-1230-4.0/300	0.5	8	4.0	1230	43.0	5.35
EcoFROST-MT-1470-5.0/300	0.5	10	5.0	1470	36.0	6.39
EcoFROST-MT-1710-6.0/300	0.5	12	6.0	1710	30.9	7.43
EcoFROST-MT-2100-7.0/300	0.5	14	7.0	2100	25.2	9.13
EcoFROST-MT-2460-8.0/300	0.5	16	8.0	2460	21.5	10.70
EcoFROST-MT-2940-10.0/300	0.5	20	10.0	2940	18.0	12.78
EcoFROST-MT-3360-11.0/300	0.5	22	11.0	3360	15.7	14.61
EcoFROST-MT-3750-12.0/300	0.5	24	12.0	3750	14.1	16.30
EcoFROST-MT-4200-14.0/300	0.5	28	14.0	4200	12.6	18.26
EcoFROST-MT-4800-16.0/300	0.5	32	16.0	4800	11.0	20.87