

### Description



EM2-XR is a rugged and robust self-regulating heating cable for simple, fast, and effective ramp heating to prevent snow and ice formation.

The self-regulating EM2-XR cable automatically adjusts its power output in accordance with ambient conditions; more power is produced in harsh freezing conditions and less power in marginal freezing conditions. It can be cut to length on-site providing complete flexibility in installation. It can also be provided as a configured heating unit to meet your specific design requirements, including pre-installed terminations and power cable (length variable upon request.)

### Advantages

#### Design phase

- Designed to fit any ramp shape and size.
- Variable power output to meet design requirements.
- Variable lengths (cut-to-length) to meet precisely the ramp size.

#### Installation phase

- Cut to length possibility on site (allows for on-site variations) from design.
- Available in cut-to-length, pre-terminated, or made-to-order configured system formats to meet the installation method requirements.

#### The applications

- Car Park ramps and access ways
- Footpaths
- Loading Bays / Distribution centres
- Airport taxi ways and aircraft stands

### Technical Data

Nominal Power:	90W/m at 0°C
Voltage:	230Vac
Maximum Exposure Temperature:	100°C
Minimum Install temperature:	-20°C
Dimensions:	18.9mm x 9.5mm
Circuit Breaker required:	Type C (Max. 50A.)
Cable Construction:	Self Regulating polymer heating cable, braided and overjacketed.
Certification:	CE, VDE

### Related Products

VIA-DU-20	Programmable ramp heating control with ambient temperature, ground temperature, and moisture sensors.
VIA-L1	Temperature resistant power cable (3 x 6mm <sup>2</sup> conductors).
VIA-CE1	Waterproof connection and end seal kit.
VIA-JB2	Temperature resistant junction box.

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**Packaging and ordering references**

EM2-XR ramp heating cable is available as standard cable, pre-terminated pack, or as a made to order configured heating unit:

Product name	Order reference	Mat size
EM2-XR	449561-000	Self Regulating Ramp heating Cable
EM2-XR-10-17m	1244-001512	Pre-terminated self regulating heating cable
EM2-XR-18-28m	1244-001513	Pre-terminated self regulating heating cable
EM2-XR-29-35m	1244-001514	Pre-terminated self regulating heating cable
EM2-XR-36-45m	1244-001515	Pre-terminated self regulating heating cable
EM2-XR-45-55m	1244-001516	Pre-terminated self regulating heating cable
EM2-XR-56-70m	1244-001517	Pre-terminated self regulating heating cable
EM2-XR-71-85m	1244-001518	Pre-terminated self regulating heating cable
Heating Unit Raychem Viagard	1244-005360	Configured heating unit (Pre-terminated) with customer specified heater and cold lead length.

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**Pre-installation ground preparation**

The heating cable should be installed on a stable subsurface. In suspended structures the substratum may consist of finished slabs, pre-stressed concrete or a suspended structure with poured concrete. The heating cables can be laid on all subsurfaces including reinforcement grids/bars. In the case of poured concrete, it should be ensured that the surface is smooth and all sharp objects are removed. Ramps on a solid substratum do not require any additional thermal insulation. Appropriate preparations should be made for installing the temperature and moisture sensor.

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**Installation Instruction**

Complete installation instructions are supplied with the product and are available electronically from Tyco Thermal Controls. Please request installation instruction reference: INST-159.

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**Specification guideline**

A product specification guideline is available upon request from Tyco Thermal Controls. It is also available online at:

[http://www.tycothermal.com/uk/english/snow\\_melting/](http://www.tycothermal.com/uk/english/snow_melting/)

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