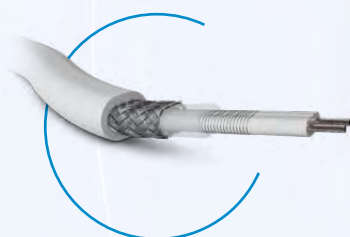
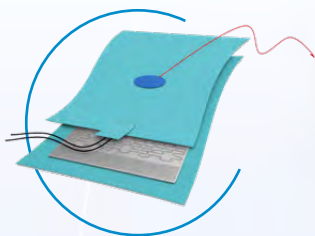
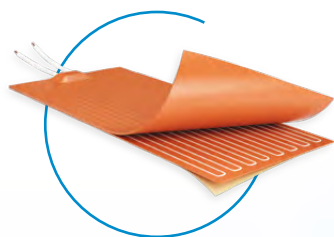


FLEXIBLE HEATING CABLES AND ELEMENTS

Rolling Stock



Heating solutions for Rolling Stock

As a specialist in the design and manufacture of custom heating solutions, FLEXELEC supports railway industry players in developing reliable, high-performance systems tailored to their specific requirements. From needs analysis through to commissioning, our teams leverage their expertise to deliver demanding projects, helping to enhance safety, maximize equipment availability, and ensure optimal comfort for both passengers and onboard personnel



COCKPIT **FLEXMAT®**

Provides even heating to improve the driver's comfort.



TOILETS, PIPING, TANKS

FLEXMAT®
FLEXTRACE®
Protects water circuits from freezing and ensures they function properly.



PANTOGRAPH **FLEXMAT®**

Prevents the build-up of ice and freezing to ensure a reliable and continuous electrical connection.



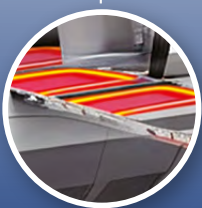
TRAP, COUPLER **FLEXMAT®**

Keeps mechanisms protected from freezing to ensure they remain available and in good working order.



WAGON INTERIOR **FLEXMAT®**

It distributes heat evenly to ensure passengers' thermal comfort.



RAMPS, DOORS, VESTIBULE **FLEXMAT®**

Prevent sensitive areas from freezing to ensure they open properly in winter conditions.



www.flexelec.com

As France's leading manufacturer of flexible heating elements for rail rolling stock, FLEXELEC supports its customers from product design to full-scale production. Leveraging advanced engineering expertise and state-of-the-art manufacturing facilities, we provide reliable, custom-engineered solutions designed to meet the highest industry standards and operational requirements.

Discover our product range

FLEXMAT® T

WIRE-LAID SILICONE HEATING MAT

High-strength silicone mats, compliant with the EN 45545-2 standard, bespoke-designed to meet every requirement and with all the required accessories included.

- Maximum surface: Up to 1.5 m²
- Thickness: ~3 mm
(thicker at connection point)
- Permissible surface temperature: -60°C to +200°C
- Temperature maintenance: Up to +160°C

+ Available options

- Wide range of accessories
- Plate vulcanisation
- Pre-forming for easier installation



FLEXMAT® EF

ETCHED-FOIL SILICONE HEATING MAT

A bespoke heating solution with very high power density, compliant with the EN 45545 standard, combining design flexibility, a compact footprint and thermal performance for freezing protection of rolling stock.

- Power: 3 W/cm²
- Maximum surface: Up to 0,9m²
- Surface temperature: -60°C to +240°C
- Temperature maintenance: Up to +200°C

+ Available options

- Insulation integrated
- Any voltage
- Multi-zone heating



FLEXTRACE® FTS

CONSTANT POWER HEATING CABLES

Constant power heating cable providing consistent and reliable freeze protection, even in the most extreme conditions.

- Power: Up to 50 W/m
- Standard voltage: 230V, 400V or 750V
- Standard length: Up to 40m
- Protection rating: IP68

+ Available options

- PVC, Silicone or Teflon insulation
- Mini version with a smaller diameter



Accessories and regulations



Special sockets
and connections



Sensors and limiters



Thermostats



Insulation

French leader in temperature maintenance solutions

Since 1982, FLEXELEC has been developing temperature control solutions to meet the performance and reliability challenges faced by manufacturers.

As a subsidiary of the OMERIN Group, the company benefits from an international environment and a strong culture of continuous innovation, enabling it to advance its technologies and provide solutions increasingly tailored to the needs of its markets.



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Any projects?

Let's talk about it!

flexelec@omerin.com

