# FLEXTRACE®





### FLEXTRACE® CF and FT

The solution for Railway Infrastructures Freeze Protection

### Solidity, experience and competence

Sustained by the **OMERIN Group** and with a dynamic of more than 1100 collaborators, **FLEXELEC** is the specialist in design, manufacturing and installation of heating flexible elements dedicated to freeze protection for the railway infrastructures.

The global mastering of manufacturing and knowledge acquired since 1985 have permitted us to forecast installation issues. **FLEXELEC** optimizes the efficiency of the installations depends on the variability of climate conditions and the types of Infrastructures to protect from freezing.

**FLEXELEC** has become a key player in the heating solutions market, and keeps more than ever that passion for performance. That's why our company is well known for the reliability of products and installations.

### **Solutions**

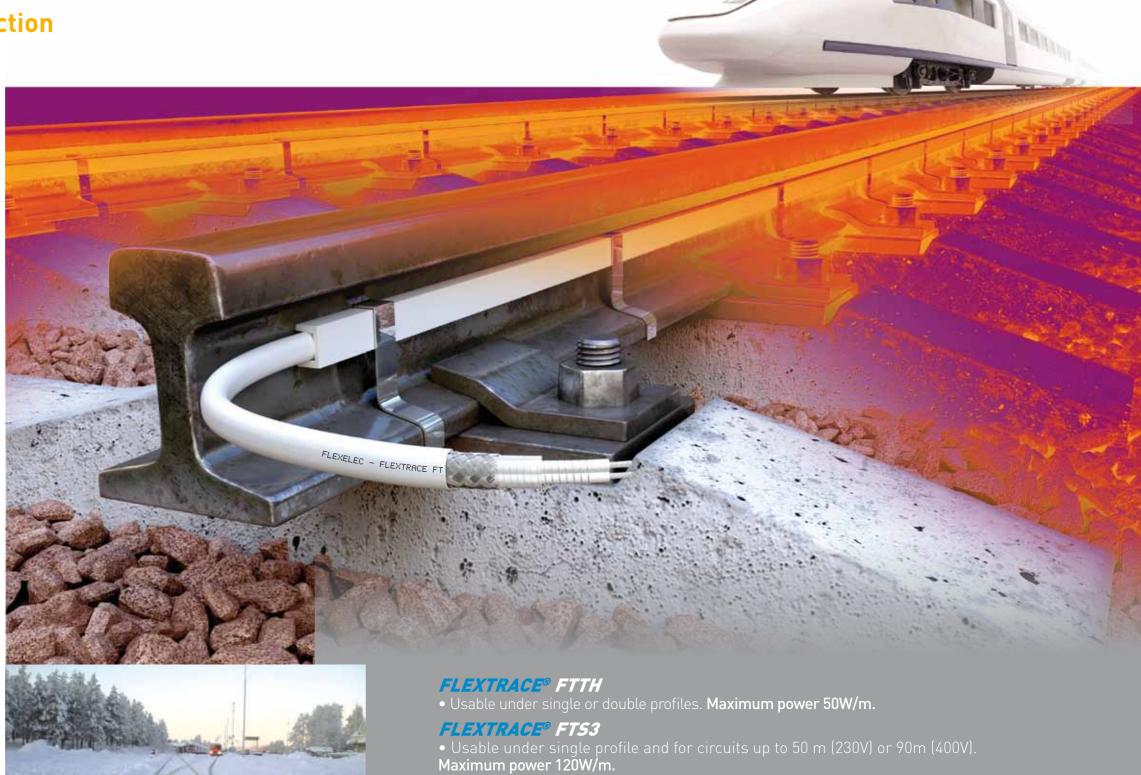
**FLEXELEC** develops complete solutions for rail switches, tracks, guide bars and 3rd rail.

Every application has its adapted solution depending on the dissipated power, the voltage, the length to trace and the complexity of the tracing.

**FLEXELEC** is the expert partner in freeze protection for rail infrastructures.



### Constant wattage range *FLEXTRACE® FT*For circuits shorter than 200m



FLEXTRACE® FTS4

• Usable under single profile and for circuits up to 100m (400V) or 200m (750V). **Maximum power 120W/m.** 

(400m on one supply point)

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### Serial range *FLEXTRACE® CF* For circuits longer than 400m

(800m on one supply point)



Technical sheets online at www.flexelec.com



### Advantages of FLEXTRACE® CF and FT

#### **Efficiency**

- **Power adapted** to the requirement of many possible configurations to anticipate the critical needs of all short or long distance installations.
- Made from **external flexible isolated materials** improving the contact between heating cable and metallic rail and increasing highly the energetic throughout of the installation.
- Equipped with a thermal dissipator thanks to the stainless steel braid, highly improving the contact temperature and the calories restitution to the rail
- The cable dimensions permit an installation to be closest to the critical zone to protect from freezing, limiting the performance degradation under the influence of wind.

#### Reliability

- The reliability of the connections made in factory ensures **high quality seal.**
- Made from a conductor without voltage drop and without high current draw at start up.
- Made from internal fluoropolymer insulate ensuring the cable's integrity against attacks from external chemicals (oil, herbicides, acids ......).



#### **Economic**

- The **fitting facilitated** by using a flat cable, innovative solution compared to 2 separate cables.
- A **limited number of electric cabinets**, impacting heavily the total cost of the installation, and also the maintenance cost.
- The accessories for a quick and easy installation:
- → A profile designed for its thermal and mechanical resistance to weathering and UV characteristics.
- → Cable clips designed to apply the right pressure to the cable on the rails in different rail configurations to install or already installed.



## Other heating solutions for railway infrastructures



#### **Heating plate**

The heating plates *FLEXPLATE*® permit a reinforcement of heat localised at strategic points on the railway switches and may reach 240W/m.

The plate is pre-equipped of its thermal insulation and just needs clips as fitting accessories.



### Solutions for the waterproof electric junction of the installations

#### Connections always more effective

The cable lifetime depends on its thermal ageing and mainly of the connections sealing.

**FLEXELEC**, with its strong experience, offers factory made connections with a moulding which guarantees a good sealing, tested with a 30-days immersion under 0.5m of water. The connection is ready to fit with a choice of sealed connectors which have proven their worth in-situ.

#### **Central junction boxes**

Intermediary junction boxes or intermixing boxes *FX/4V* guarantee excellent sealing and ease of installation and utilisation.

Used a lot in cold and snowy countries, *FX/4V* boxes will satisfy the most demanding customers.









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