



ELECTRIC MULTIPLE-UNIT FLIRT NORDIC

Since their market launch in 2004, FLIRTs have proven themselves in Sweden, Finland, Estonia, Belarus and Norway – countries with extreme winter conditions. Depending on the equipment fitted, the FLIRT (Fast Light Innovative Regional Train) can be used for commuter transport as well as for inter-regional and intercity rail routes. The Flirt excels due to its comfortable low-floor entrances, its open, bright and transparent interior, as well as its individual customisation options for seating arrangements, multifunctional areas and luggage racks. Sealed engine compartments provide the traction equipment with optimum protection from rain, snow and ice, while double gangway bellows are used in the inter-carriage connections. Air suspension, high-grade materials, a modern passenger information system and a proven HVAC system guarantee comfortable travel for everyone on board. Flirt Nordic trains are available as 3-car up to 6-car units and are approved for a maximum speed of 200 km/h.

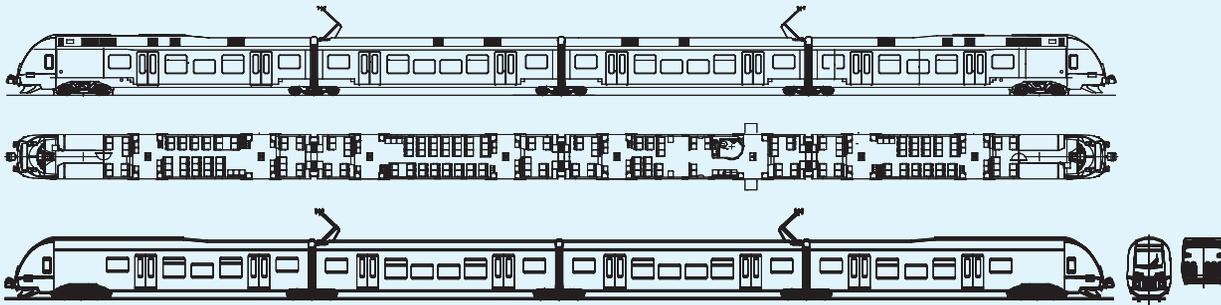
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Technical features

Technology

- HVAC systems for passenger compartments and driver's cabs, with fresh air circulating via the perforated ceiling, and a panel heating system
- Car body made of extruded aluminium profiles in accordance with EN 15227, Class 1
- Motor bogies and trailer bogies with pneumatic suspension
- Multiple unit train control for up to four vehicles
- Lightweight car bodies in integral aluminium design in line with the latest standards for crashworthiness (EN 15227) and car body strength (EN 12663)

Comfort

- Bright, passenger-friendly interior
- Generously dimensioned entrance areas for optimum passenger flow
- Five entrance doors on each side

Personnel

- Ergonomically designed working environment to prevent driver fatigue
- Central driver's cab for one-man operation in accordance with UIC guideline 651
- User-friendly passenger information systems

Reliability / Availability / Maintainability / Safety

- Redundant drive equipment with two power trains with water-cooled IGBT power converters
- Vehicle control system with train bus and diagnostics computer (CANopen bus)

Vehicle data

Gauge	1435 mm
Supply voltage	15 kV, 16.7 Hz
Axle arrangement	Bo' 2' 2' 2' Bo'
Seating capacity incl.	226
Tip up seats	
Floor height	
Low floor	800 mm
High floor	1180 mm
Entrance width	1300 mm
Overall length	80.5 m
Vehicle width	3200 mm
Vehicle height	4380 mm
Bogie wheelbase	
Motor bogie	2500 mm
Trailer bogie	2750 mm
Driving wheel diameter, new	920 mm
Carrying wheel diameter, new	920 mm
Max. power at wheel	3000 kW
Starting tractive force	160 kN
Starting acceleration	0.8 m/s ²
Maximum speed	200 km/h