



## ***Electric Low-floor Multiple-unit FLIRT for the SBB GmbH (Germany)***

SBB GmbH (Germany), a subsidiary of the Swiss Federal Railways (SBB) operate the “seehas” on the Engen – Konstanz route by order of the Baden-Württemberg Ministry of Environment and Transportation since June 2006. The awarding of the contract was in the framework of a European-wide tender.

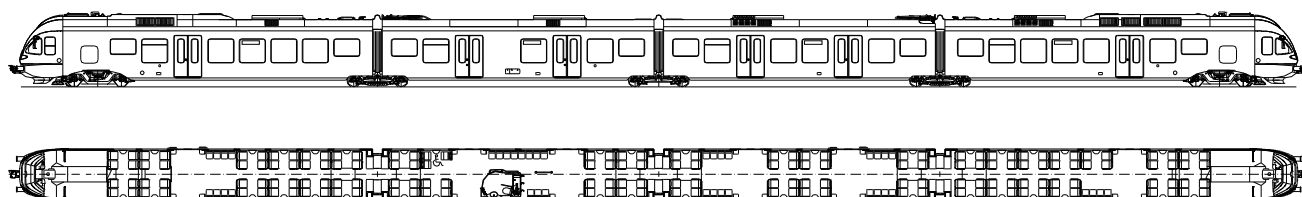
9 four-unit FLIRT (Fast Light Innovative Regional Train) railcars are designated for the “seehas” transport sector. The nine railcars are equipped with a modern air conditioning and Passenger Information System.

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## Technical features

- Bright, passenger-friendly interior with customized design
- End-to-end walk-through passenger compartment, with no steps
- Low-floor section > 90%
- Spacious multipurpose area in entrance section
- 6 doors on each side for rapid passenger access
- Air-conditioned passenger and driver compartments
- Vacuum toilet system, also suitable for the disabled
- Ergonomically designed driver's cab
- Glass fibre reinforced front section with automatic coupling
- Welded extruded aluminium superstructure
- Air-suspended bogies
- Redundant traction chain with water-cooled IGBT power converters from ABB Schweiz AG
- SELECTRON vehicle control system with train bus and diagnostic computer
- Multiple-unit control for up to four vehicles

## Vehicle data

Customer	SBB GmbH Swiss Federal Railways, Germany
Lines operated	Seehas Konstanz-Engen
Gauge	1'435 mm
Designation	RABe 526'651-659
Catenary supply voltage	15 kVAC, 16.7 Hz
Axle arrangement	Bo' 2'2'2' Bo'
Number of vehicles	9
Service start-up	up to 2006
Seating capacity 1 <sup>st</sup> + 2 <sup>nd</sup> class	16 + 147
Fold up seats	39
Standing capacity (4 pers./m <sup>2</sup> )	284
Floor height	
Low floor	570 mm
High floor	1'120 mm
Door width	1'300 mm
Longitudinal strength	1'500 kN
Overall length	74'078 mm
Vehicle width	2'880 mm
Vehicle height	4'150 mm
Tare weight	120 t
Bogie wheelbase	
Power bogie	2'700 mm
Trailer bogies	2'700 mm
Powered wheel diameter (new)	860 mm
Trailer wheel diameter (new)	750 mm
Continuous output at wheel	2'000 kW
Maximum output at wheel	2'600 kW
Starting tractive power	
(up to 47 km/h)	200 kN
Max.acceleration at gross weight	1.2 m/s <sup>2</sup>
Maximum speed	160 kph

