



Electric Low-floor Multiple-unit FLIRTs for the Swiss Federal Railways (SBB) Wiesental, Germany

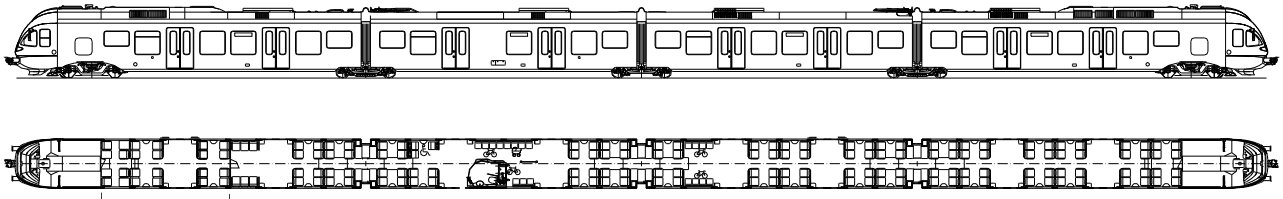
The SBB GmbH has had a total of 10 FLIRTs in operation in Germany – on the Gartenbahn (S5 line between Weil a. Rhein and Steinen) since October 2005 and on the Wiesentalbahn (S6 line between Zell i. W. and Basel Bad Train Station) since March 2006. The four-unit Wiesental FLIRTs offer passengers 180 seats and standing room for 297.

The FLIRT (Fast Light Innovative Regional Train) sets a new benchmark in suburban transport. A walk-through passenger compartment optimized for platform heights of 550 mm and rapid acceleration are two of the train's outstanding features.

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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
- 8 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 AG Swiss Federal Railways, Switzerland
Lines operated	Basel - Zell im Wiesental (D)
Gauge	1'435 mm
Designation	RABe 521 001 – 010
Catenary supply voltage	15 kVAC, 16.7 Hz
Axle arrangement	Bo' 2'2'2' Bo'
Number of vehicles	10
Service start-up	2005
Seating capacity 1 st + 2 nd class	20 + 141
Fold up seats	19
Standing capacity (4 pers./m ²)	297
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 bogie	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 tp 47 km/h)	200 kN
Max.acceleration at gross weight	1.2 m/s ²
Maximum speed	160 kph