



Electric Low-floor Multiple-unit FLIRT for the Swiss Federal Railways (SBB) Stadtbahn Zug, Switzerland

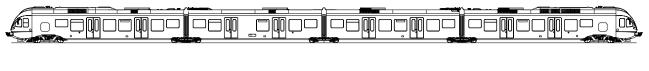
The SBB has ordered 12 low-floor commuter trains for the Stadtbahn Zug. The new FLIRTs form the backbone of Zug's public transportation system. 6 vehicles went into operation punctually with the schedule change on 12.12.2004.

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 |
|--------------------------------------|-------------------------------------|
| Customer | Swiss Federal Railways, Switzerland |
| Lines operated | Stadtbahn Zug |
| Gauge | 1'435 mm |
| Designation | RABe 523 001 – 012 |
| | 15 kVAC, 16.7 Hz |
| Catenary supply voltage | Boʻ 2ʻ2ʻ2ʻ Boʻ |
| Axle arrangement Number of vehicles | 12 |
| | |
| Service start-up | 2004 |
| Seating capacity 1st + 2nd class | 20 + 138 |
| Fold up seats | 11 |
| Standing capacity (4 pers./m2) | 301 |
| 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 to 47 km/h) | 200 kN |
| Max.acceleration at gross weight | 1.2 m/s ² |
| Maximum speed | 160 kph |
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