



Electric Low-floor Multiple-unit TILO FLIRT for the Swiss Federal Railways (SBB), Switzerland / Italy

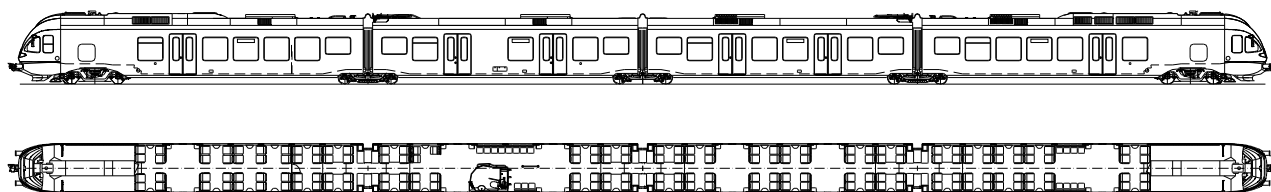
These 19 dual-system FLIRTs will go into operation on the Ticino and Lombardy regional network (TILO). The four-unit TILO FLIRTs are dual-system trains equipped with alternating and direct current fittings as well as train control for the Swiss and Italian lines. The TILO FLIRT offers passengers more than 182 seats and standing room for 244.

The FLIRT (**F**ast **L**ight **I**nnovative **R**egional **T**rain) 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.

Stadler Bussnang AG
Industriestrasse 4
CH-9565 Bussnang, Switzerland
Phone +41 (0)71 626 20 20
Fax +41 (0)71 626 20 21
stadler.bussnang@stadlerrail.ch

A Company of Stadler Rail Group
Industriestrasse 1
CH-9565 Bussnang, Switzerland
Phone +41 (0)71 626 21 20
Fax +41 (0)71 626 21 28
stadler.rail@stadlerrail.ch

www.stadlerrail.com



Technical features

- Bright, passenger-friendly interior with customized design
- End-to-end walk-through passenger compartment, with no steps
- Low-floor section = 100%
- 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
- Vehicle control system with train bus and diagnostics computer (CAN open bus)
- Multiple-unit control for up to four vehicles



Vehicle data

Customer	SBB AG / TILO
Lines operated	Ticino - Lombardy
Gauge	1'435 mm
Designation	RABe 524 001-019
Catenary supply voltage	15kVAC / 3kVDC
Axle arrangement	Bo' 2'2'2' Bo'
Number of vehicles	19
Service start-up	2007
Seating capacity 1 st + 2 nd class	28 + 135
Fold up seats	19
Standing capacity (4 pers./m ²)	244
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	131 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 47km/h)	200 kN
Max.acceleration at gross weight	1.2 m/s ²
Maximum speed	160 kph