



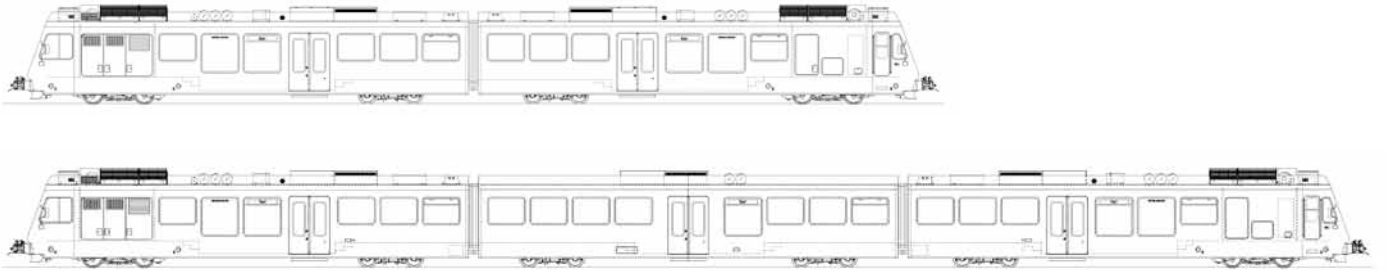
Diesel-Electric Railcars for Ferrovie Appulo Lucane, Bari (Italy)

In 2011, Ferrovie Appulo Lucane (FAL) signed a contract for a total quantity of 11 two- and three-car diesel electric low-floor railcars for the 950 mm narrow gauge routes Bari-Altamura-Matera and Bari-Potenza. The carriages of the two-car railcars have one motor bogie and trailer bogie each, and if necessary can be separated from each other for maintenance. All carriages have low-floor access that also allows the handicapped and older people easy access. The three-part railcars also have a toilet, which is accessible for wheelchairs. The drive system arranged above the motor bogie guarantees, even for greater gradients, a high tractive force and is designed so that it is easy to maintain: all important components are easily accessible for vehicle maintenance.

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Technical data

- Railcars with a modern, transparent, open interior design with an aluminum car body in aluminum lightweight construction
- Spacious, multi-functional low-floor access that also provides the handicapped and older people easy access. Low-floor portion: 50%
- Two low-floor access doors per side for two-unit railcars or three for three-unit railcars
- Air conditioning in the passenger compartments and the driver's cab
- Three-unit trains are equipped with wheelchair accessible toilets
- Ergonomically designed driver's cab with access doors for the service personnel
- Air suspended bogies for maximum travel comfort
- Low emission, high-performance 6 cylinder CUMMINS diesel engines (Euro IIIA)
- Two diesel-electric drive units with modern, water cooled IGBT power converters
- Passenger compartment lighting with LED lighting
- Central vehicle control by means of CAN bus technology
- Multiple-unit control for two- or three vehicle consists

Vehicle data

2 carriages 3 carriages

Rail Agency	Ferrovie Appulo-Lucane (Italy)	
Area of operation	Bari-Altamura-Matera Bari-Altamura-Potenza Potenza-Avigliana	
Gauge	950 mm	
Drive system	Diesel-electric	
Axle arrangement	Bo'2'+2'Bo'	Bo'2'+2'2'+2'Bo'
Number of vehicles	5	6
Delivery	2012–2013	2012–2013
Seats	100	155
Tip up seats	10	14
Standing capacity (6 Pers./m ²)	86	151
Floor height		
Low-floor at entrance	519 mm	519 mm
High-floor	945/1039 mm	945/1039 mm
Access width	1300 mm	1300 mm
Length over coupling	35832 mm	52532 mm
Vehicle width	2500 mm	2500 mm
Vehicle height	3880 mm	3880 mm
Service weight (AW0)	about 66 t	about 86 t
Bogie wheelbase		
Motor bogie	2100 mm	2100 mm
Trailer bogie	1800 mm	1800 mm
Diameter of tractive wheels, new	810 mm	810 mm
Diameter of carrying wheel, new	685 mm	685 mm
Diesel engine	2 x 395 kW	2 x 395 kW
Max. output at wheel	4 x 150 kW	4 x 150 kW
Starting tractive force:	120 kN	120 kN
Starting acceleration	0.9 m/s ²	0.9 m/s ²
Maximum speed	120 kph	120 kph

