

Connectors for Light Electric Vehicles (LEVs)

For sustainable, climate-friendly transport and less noise, small light electric vehicles (LEVs) are on the rise, especially in urban areas. These expand and complement progressive forms of mobility.

To allow economic operation of these vehicles, they must be charged quickly, easily and safely when connecting to the power grid. Connection solutions from Rosenberger are purpose-designed to ensure this.

Rosenberger develops and offers several LEV connector series e.g. RoPD® and RoPO that can transfer power and data with one single connection.





RoPO

RoPO (Rosenberger Power Bike) connectors up to 500 V DC have been developed with a new type of secure bayonet locking for uninterrupted data and power transmission. Seamless connectivity must be ensured and the connector must be easy to plug and unplug. They meet the requirement for fast, safe and easy charging on the standard power grid.

The RoPO connection system is ideal for many LEV connection applications, e.g. battery charging for light e-scooters, e-bikes and e-rickshaws.

Product Portfolio

- Charging cable connectors right angle
- Header square flange straight
- Cable assemblies

Features

- Current capacity 80 A at 85 °C
- Working voltage 500 V DC
- Waterproof (mated) IP 65/67
- Touchproof IPXXB
- Operating temperature range -40 °C to +105 °C
- 2 power pins, 4 data pins
- Cross sections 3 mm², 12 mm²
- With HVIL (high-voltage interlock)
- Mating cycles > 10000

Benefits

- Secure bayonet locking
- Uninterrupted data and power transmission
- Reliable connectivity
- Easy to plug and unplug
- Fast, safe and easy charging on the standard power grid


Applications

- LEV connection and charging applications
- Battery charging
- E-scooters
- E-rickshaws



Products

RoPO Cable Assemblies

Rosenberger No.	Description	Cable Cross Section	Product
X003-A2-XXX-Y	Cable assembly With cable connector right angle	3 mm ²	
X012-A2-XXX-Y		12 mm ²	

-XXX please fill in requested length in mm
-Y please fill in requested coding

RoPO Cable Assemblies

Rosenberger No.	Description	Product
BIAL105-1L-001B1-Y	Cable assembly With header 4-hole flange	

-Y please fill in requested coding

For more information
refer to our website:
www.rosenberger.com/ropo

