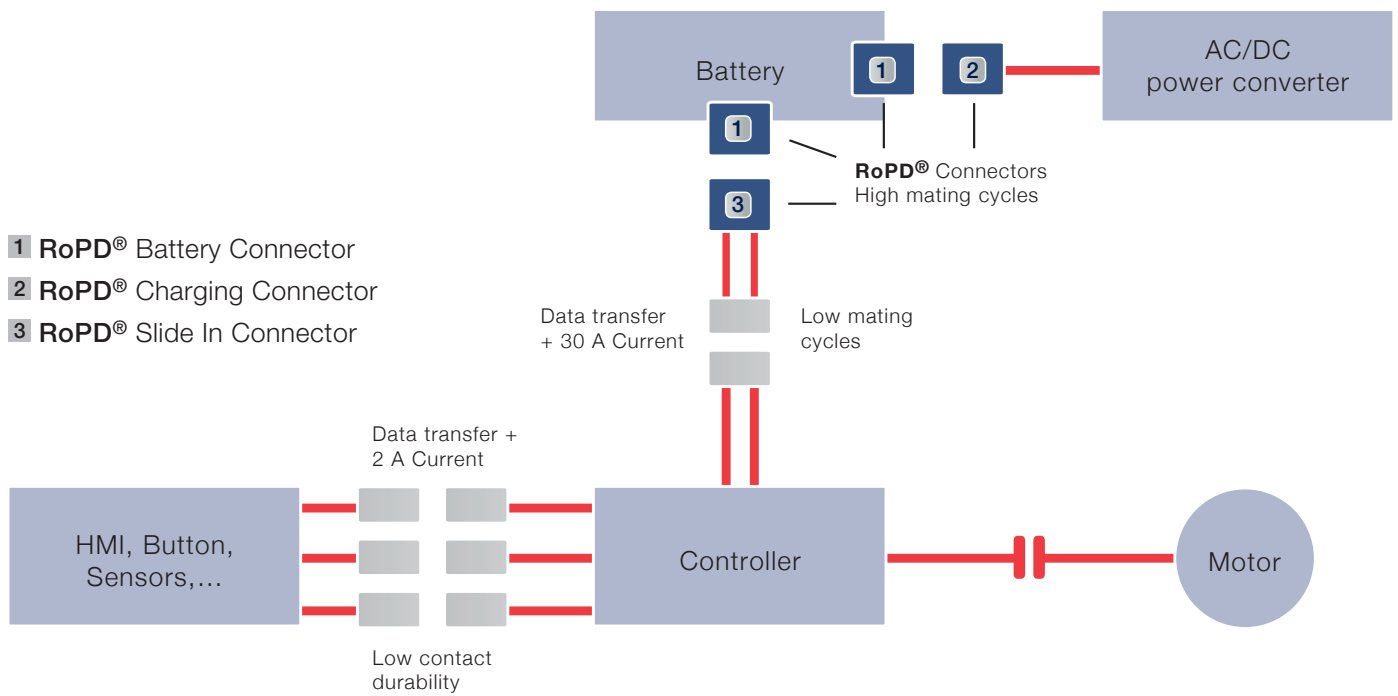


Magnetic Connecting System – Power and Data Transmission for LEV

RoPD[®] Connectors

AUTOMOTIVE





RoPD® – Rosenberger Power Data

RoPD® Connectors – Exploring Generation LEV

Rosenberger Power Data Connectors are a revolutionary magnetic connector system** – developed for the Light Electric Vehicles Industry (LEV). They are especially suited for data communication and power transmission of voltages up to 60 V DC and current loads up to 40 A.

RoPD Connectors utilize magnetic locking with a perfect self-mating capability instead of a mechanical plug-in mount. Forced disconnection will not damage the connector or the LEV.

Product Features

- Magnetic locking mechanism
- 4 pins for data communication and 2 pins for power transmission
- 100 % self-location
- Shallow mounting depth
- Waterproof and robust
- Shock- and vibration proof
- Reliable contact pressure
- Zero-force mating
- High number of mating cycles

** European Patent No. EP 1 537 632





Introduction

Technology

The contact system consists of 4 data contacts and 2 power transmission pins. The system is not hot-plugable.

Upon successful connection, the data contacts activate the power contacts. The power contacts are based on a pin and socket principle, which balances out tolerances through contact springs and is therefore suitable for high quantity of mating cycles. In the automobile industry this power connection system has proved itself time and again. The 4 data contacts can be used as a BUS-System with additional supply voltage.

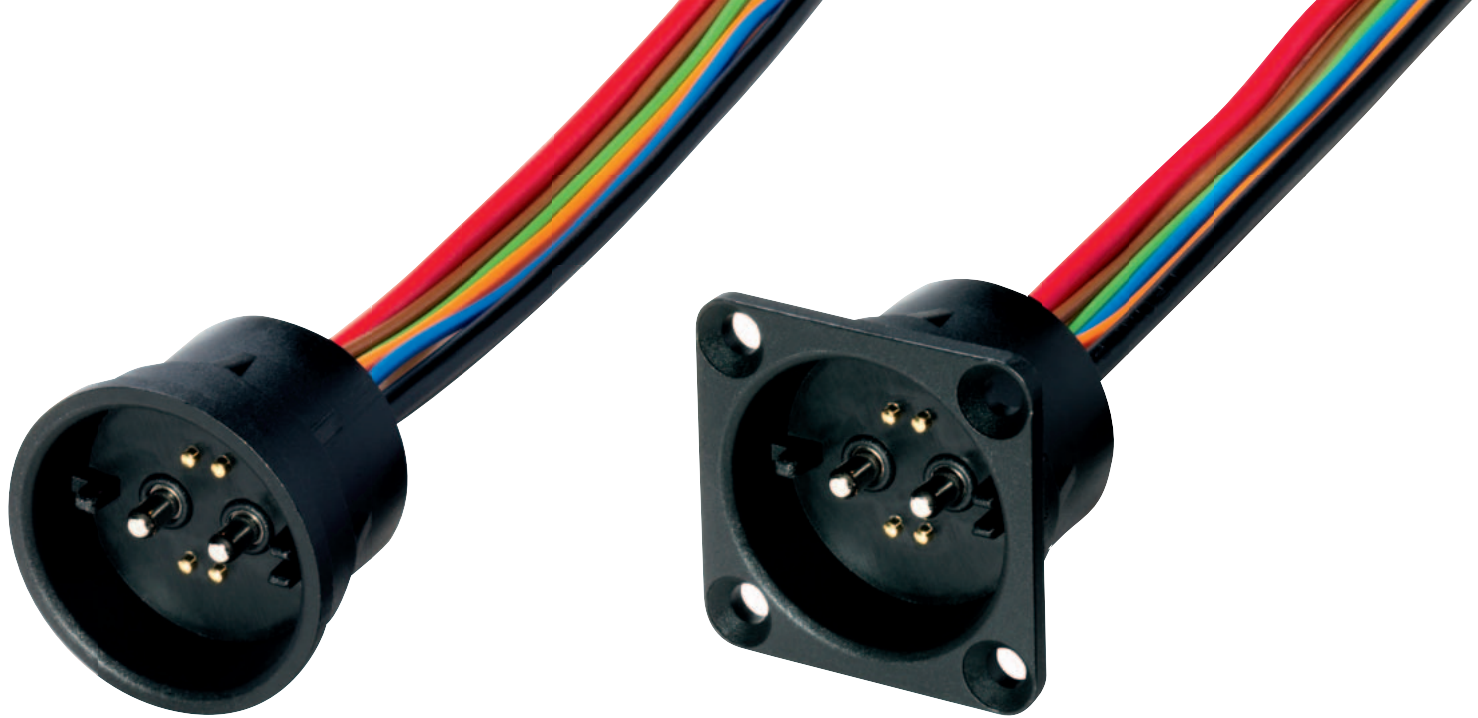
Versions of these magnetic Rosenberger Power Data connectors are also suitable for EnergyBus application.

Perfect handling

- No risk of canting or similar
- Reliable connections even for hard-to-reach positions
- Forced disconnection causes no damage to connector or vehicle


Applications

RoPD® Connectors are suitable for the Light Electric Vehicles Industry (LEV) for data communication and power transmission, e.g. pedelecs, e-bikes, e-scooters and wheelchairs.

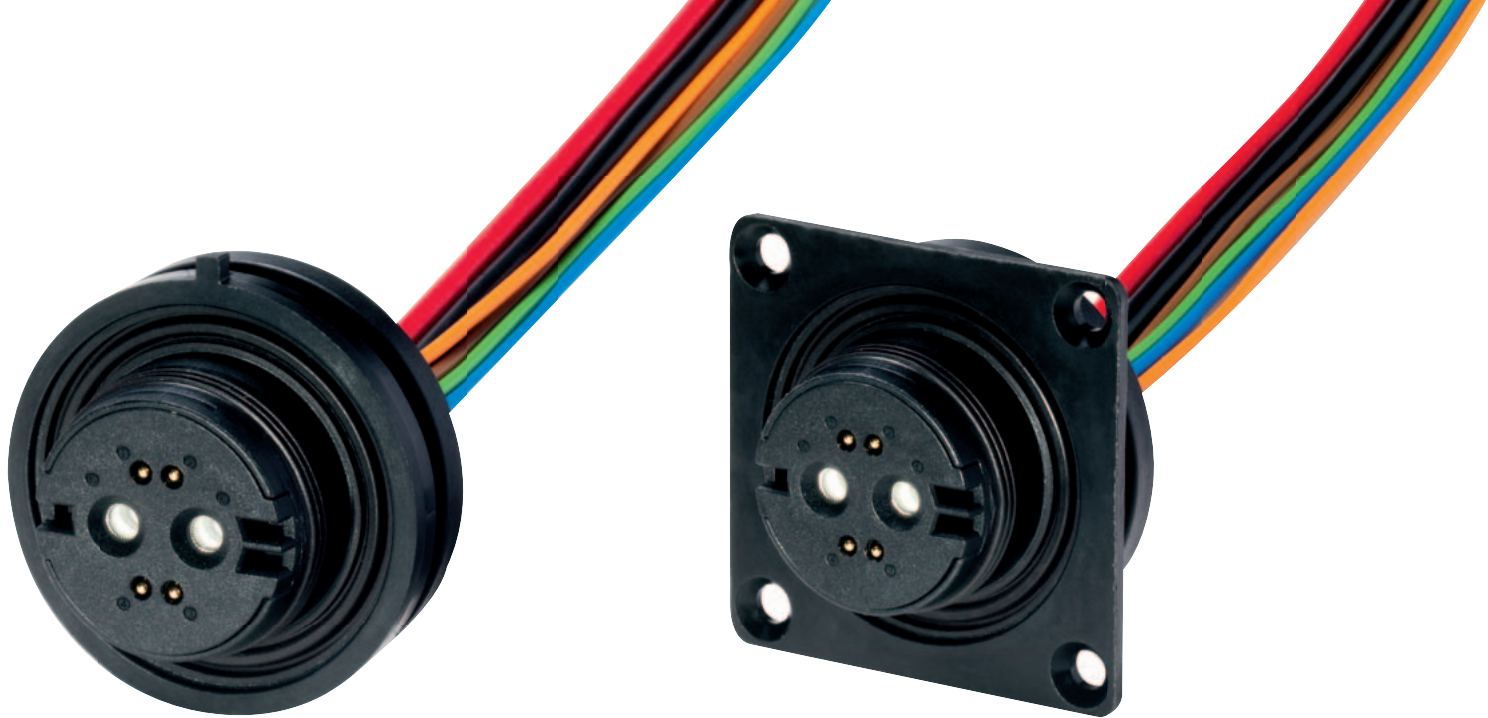


Product Portfolio

RoPD® Cable Assemblies & Accessories

Rosenberger No.	Max. Current Load	Assembly incl. Connector	
C001-04-xxx-y*	10 A	Charging connector jack straight	
C003-03-xxx-y*	30 A		
C001-08-xxx-y*	10 A	Charging connector jack right angle	
C003-04-xxx-y*	30 A		
C001-A2-xxx-y*	10 A	Slide-in panel jack straight round flange	
C003-A2-xxx-y*	30 A		
C006-A2-xxx-y*	40 A		
C001-10-xxx-y*	10 A	Slide-in panel jack straight 4-hole-flange	
C003-BB-xxx-y*	30 A		
C006-B2-xxx-y*	40 A		
C001-21-xxx-y*	10 A	Battery panel plug straight round flange	
C003-17-xxx-y*	30 A		
C006-17-xxx-y*	40 A		
C001-11-xxx-y*	10 A	Battery panel plug straight 4-hole-flange	
C003-B1-xxx-y*	30 A		
C006-B1-xxx-y*	40 A		
M4Z003-000		Protection cap for plug connectors	

* please fill in: xxx requested length in mm, y coding
Further or customized versions on request



Technical Data

Product Features

- Current: 10 A, 30 A, 40 A
- Voltage: up to 60 V DC
- Mating cycles > 2500
- UV-resistant
- Waterproof: IP 65 plug, IP 64/IP 67 jack (mated connection)

Technical Data RoPD® Cable Assemblies

	Cable Assembly Types		
	C001-...-xxx-y*	C003-...-xxx-y*	C006-...-xxx-y*
Electrical data			
Rated voltage, Power Pins	60 V DC	60 V DC	60 V DC
Max. current load, Power Pins (room temperature)	10 A	30 A	40 A
Rated voltage, Signal Pins	12 V	12 V	12 V
Max. current load, Signal Pins (room temperature)	2 A	2 A	2 A
Mechanical data			
Locking mechanism	magnetic	magnetic	magnetic
Mating cycles without load	> 2500 cycles	> 2500 cycles	> 2500 cycles
Power pin wire cross section	1 mm ²	2.5 mm ²	6 mm ²
Mounting cut-out, male	Ø 25 mm	Ø 25 mm	Ø 25 mm
Mounting depth (with/without fastener ring)	20 mm	20 mm	20 mm
Environmental data			
Dust- and water resistance			
Plug (frontside, installed)	IP 65	IP 65	IP 65
Jack (connected with Plug)	IP 64/IP 67	IP 64/IP 67	IP 64/IP 67

* please fill in: xxx requested length in mm, y coding



Automotive – RoPD® Website

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

Rosenberger

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Certified by ISO/TS 16949 · DIN EN 9100 · ISO 9001 · ISO 14001

Order No.
pA 235482 · Info270RoPDFly
2000/2016

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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