

eLION Encoder Cable EG1

Heavy duty design for off-highway applications



Specifically designed for the off-highway market, Bosch Rexroth has developed its eLION solution portfolio to be robust and scalable with an integrated functional safety. It fulfills demanding customer requirements for enhanced productivity and performance, as well as improved efficiency and reduced exhaust emissions. With an already strong position as an engineering partner in the hydraulic world, Bosch Rexroth has a strong position with off-highway vehicle manufacturers. The eLION portfolio provides easily integrated electric solutions for various functions in off-highway vehicles, whether they be diesel-electric, hybrid, or fully-electric.

CUSTOMER BENEFITS

- Robust design to endure off-highway conditions
- Multicore encoder connector
- Environmental protection according to ISO 16750
- EMC shielded cable

FUNCTION AND BENEFITS

Robust design to endure off-highway conditions

To withstand harsh off-highway conditions, the eLION encoder cable has a protection class rating of up to IP6K9K. This includes an ambient temperature rating of -40 to +100 °C for fixed installation.

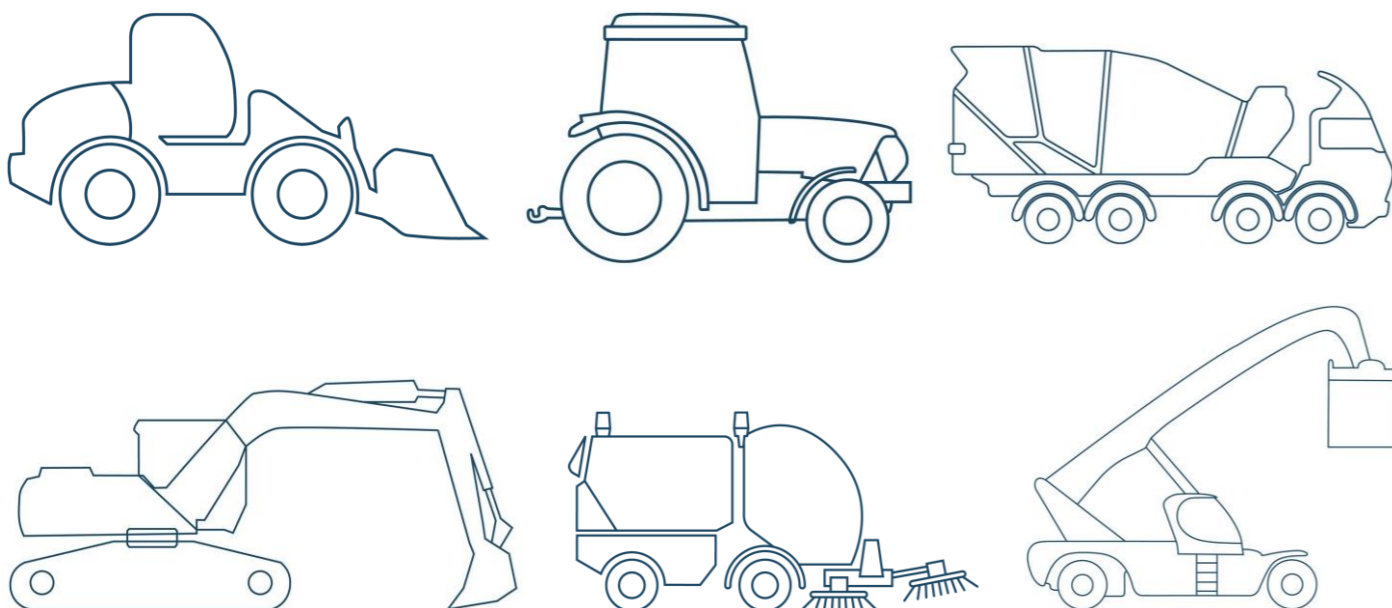
Multicore encoder connector

The eLION encoder cable is fitted with a multicore connector, which houses the pinning for measuring motor's stator temperature and the motor's rotor position and speed. The connector is available in straight or 90° angle connections allowing for various packaging requirements in the vehicle.

Environmental protection according to ISO 16750

To endure rugged environments, the eLION encoder cable has been designed according to ISO 16750. This includes protection against ozone and weathering, motor oil, fuels, and hydrolysis. Additionally, the encoder cable is fire retardant as well as abrasion and solder resistant.

APPLICATIONS



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TECHNICAL DATA

eLION Encoder Cable EG1	
Cross-section:	0.5 mm2
Weight:	0.09 kg/m
Available lengths:	0.5 ... 6 m
Length increments:	0.1 m
Data sheet:	RE96785

EMC shielded cable

The eLION encoder cable has been designed with ready-made, EMC-shielding via low resistance seals to ensure safety on the entire machine. Additionally, the encoder cable has a twisted-pair design, to further protect against EMC and signal quality.



EG1 Encoder Cable Mounted With Strain Relief

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