Global market coverage

LEONI Hivocar are globally available and produced at our production facilities in Germany, Italy, Mexico, Poland, Switzerland as well as China.

Fields of application at a glance

- High voltage battery connections
- Connection between inverter and electric motor
- Power supply for ancillary components, e. g. air conditioning compressors, electric heating
- Internal wiring of high voltage components, e. g. battery
- Charging cable for high voltage battery

More about production network

Business Group Automotive Cable Solutions

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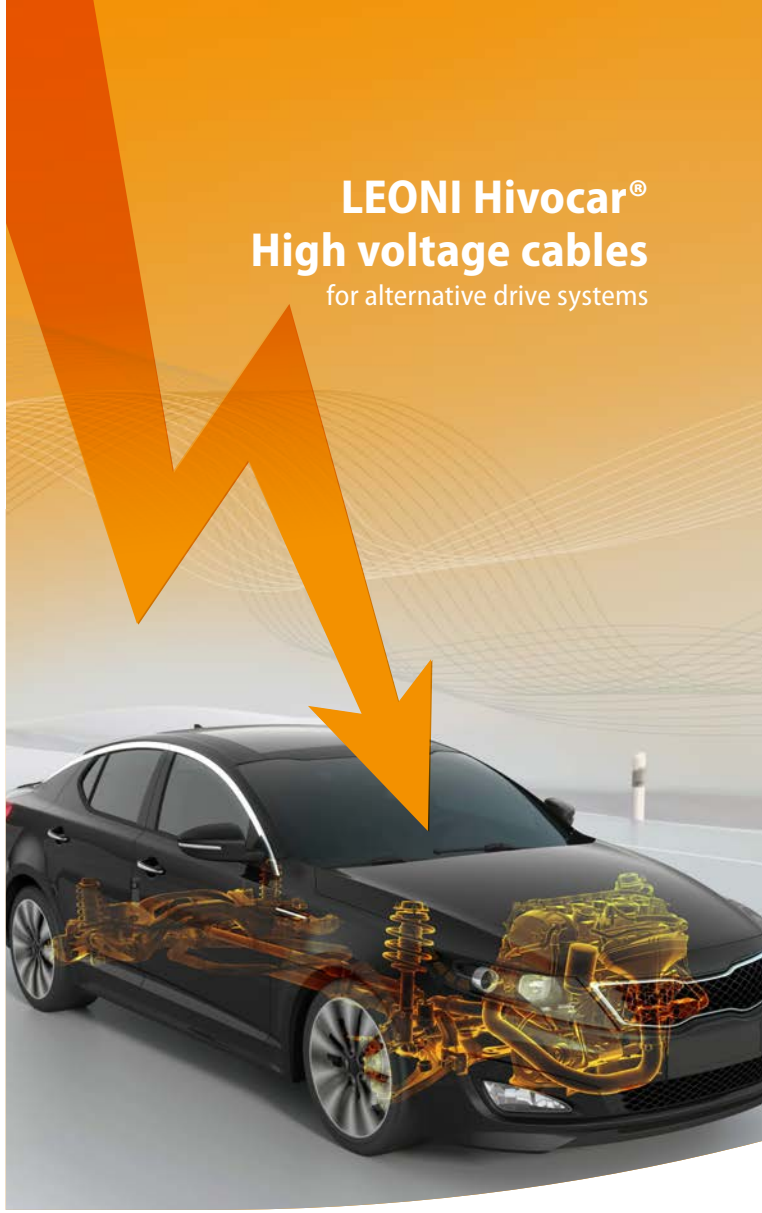
LEONI Hivocar®
High voltage cables
for alternative drive systems



The Quality Connection

LEONI

Alternative drives determine the future of mobility. The fitting of high voltage cables in electrical systems for hybrid and electric vehicles necessitates high safety requirements in the construction of the cables and the materials that are used.

With LEONI Hivocar, LEONI offers a product family that meets those high safety standards and strict market requirements with a variety of OEM approvals worldwide.

Benefits and properties at a glance

- Very good thermal resistance up to a continuous operating temperature of 200 °C
- Short-term temperature resistance up to +250 °C
- Specially selected insulation materials for high voltage applications (fluoropolymers, thermoplastic elastomers, crosslinked polymers, silicone)
- Design with and without special EMC shielding
- Excellent EMC performance
- Highest flexibility
- High mechanical strength
- Abrasion restistance
- Copper or aluminium conductor

More about LEONI Hivocar®:

More about cables for alternative drive systems:

LEONI Hivocar portfolio

LEONI Hivocar high voltage cables ensure reliable power supply in the vehicle. The single- and multi-core cables are available in shielded and unshielded versions for all application relevant temperature ranges.

The materials used meet the high requirements that are placed on vehicles with alternative drive systems in terms of electrical, mechanical, thermal and chemical properties.

Brand name	Coding	Structure	Temperature range [°C] [3000 h]	Insulation / Jacket material	Conductor material	Crosssection range [mm²]	Shielding
LEONI Hivocar®	105Y U	Single-core	–40 °C to +105 °C	PVC	CU ETP-1	0.35 – 95.0	Non-shielded
	105Y A U				ALMGSI AL 99.7	0.75 – 1.0 1.25 – 120.0	
	105Y CB Y			PVC / PVC	CU ETP-1	1.5 – 120.0	High flex braids made of tinned copper wires. Optional: Combination with foil shield
	105Y A CB Y				AL 99.7	16.0 – 120.0	
	105Y U Y	Multi-core	–40 °C to +105 °C	PVC / PVC	CU ETP-1	2.5 – 6.0	Non-shielded
	105Y CB Y				CU ETP-1	2.5 – 6.0	High flex braids made of tinned copper wires. Optional: Combination with foil shield
	125Y U	Single-core	–40 °C to +125 °C	PVC (optional: PP, XPE)	CU ETP-1	0.35 – 95.0	Non-shielded
	125Y A U				ALMGSI AL 99.7	0.75 – 1.0 1.25 – 120.0	
	125Y CB Y				CU ETP-1	1.5 –120.0	High flex braids made of tinned copper wires. Optional: Combination with foil shield
	125Y A CB Y				AL 99.7	16.0 – 120.0	
	125Y U Y	Multi-core	–40 °C to +125 °C	PVC / PVC (optional: PP, XPE)	CU ETP-1	2.5 – 6.0	Non-shielded
	125Y CB Y				CU ETP-1	2.5 – 6.0	High flex braids made of tinned copper wires. Optional: Combination with foil shield
	150XE U	Single-core	–40 °C to +150 °C	XPE	CU ETP-1	0.35 – 95.0	Non-shielded
	150XE A U				ALMGSI AL 99.7	0.75 – 1.0 1.25 – 120.0	
	150XE CB XE			XPE / XPE	CU ETP-1	1.5 – 120.0	High flex braids made of tinned copper wires. Optional: Combination with foil shield
	150XE A CB XE				AL 99.7	16.0 – 120.0	
	150XE U XE	Multi-core	–40 °C to +150 °C	XPE / XPE	CU ETP-1	2.5 – 6.0	Non-shielded
	150XE CB XE				CU ETP-1	2.5 – 6.0	High flex braids made of tinned copper wires. Optional: Combination with foil shield
	180E U	Single-core	–40 °C to +180 °C	ETFE	CU ETP-1	0.35 – 6.0	Non-shielded
	180G CB G			High tear resistant silicone	CU ETP-1	1.5 – 120.0	High flex braids made of tinned copper wires.
	180G A CB G				AL 99.7	16.0 – 120.0	
	180G U G	Multi-core	–40 °C to +180 °C	High tear resistant silicone	CU ETP-1	2.5 – 6.0	Non-shielded
	180G CB G				CU ETP-1	2.5 – 6.0	High flex braids made of tinned copper wires.
	200F U	Single-core	–40 °C to +200 °C	FEP	CU ETP-1	0.35 – 6.0	Non-shielded
	200G U			High tear resistant silicone	CU ETP-1	0.35 – 120.0	