

## 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

- Charging cable for high voltage battery DC
- Connection between inverter and electric motor
- High voltage battery cell connection
- Power supply for ancillary components, e.g. air conditioning compressors, electric heating, DC-DC converter
- Internal wiring of high voltage components
- Battery charger (onboard charger) AC
- Customized solutions, e.g. twisted pair, spiral cables

### Automotive & Commercial Vehicles

[www.leoni-automotive-cables.com](http://www.leoni-automotive-cables.com)

[www.leoni-cable.com](http://www.leoni-cable.com)

[cable-info@leoni.com](mailto:cable-info@leoni.com)

[@leoni\\_cable](https://twitter.com/leoni_cable)

Business Group

Automotive Cable Solutions

LEONI Kabel GmbH

An der Lände 3

91154 Roth, Germany

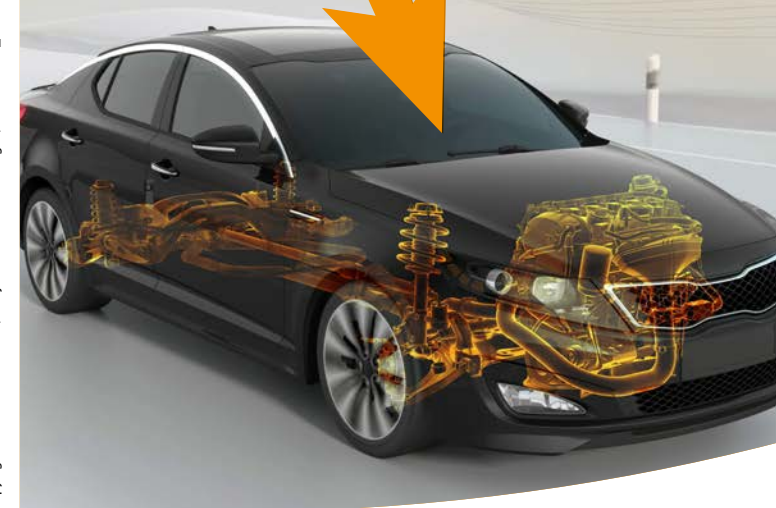
+49 9171 804-2378

More about global production network



**LEONI Hivocar®**  
**High voltage cables**  
for alternative drive systems

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**The Quality Connection**

**LEONI**

## LEONI Hivocar portfolio

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 250 °C
- Specially selected insulation materials for high voltage applications (fluoropolymers, thermoplastic elastomers, crosslinked polyolefins, silicone)
- Copper or aluminium conductor, alternative alloy materials on request
- Design with and without special EMC shielding
- Flexible use in the vehicle at a small, available installation space thanks to the smallest possible bending radii
- Easy and automatable processing
- High current carrying capacity
- Excellent EMC performance
- Very good resistance to media
- High mechanical strength

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 application relevant temperature ranges.

LEONI supplies cables according to international standards such as ISO, JASO and SAE. Most of the cables are designed according to ISO 19642 and OEM specifications based on LV216.

Brand	Class Temperature range [3,000h]	Coding	Insulation material Core / Jacket	Design Single- or multi-core (2-5 cores)	Conductor material CU ETP1 or ALMGSI / AL99.7	Shielding High flex braids made of tinned copper wires in combination with foil shield	Cross-section range nom. [mm <sup>2</sup> ]
LEONI Hivocar®	T2 B -40 °C to +105 °C	105Y U	PVC	single-core	CU	No	0.35 - 120.0
		105Y A U			AL	No	0.75 - 120.0
		105Y CB Y	PVC / PVC		CU	Yes	1.5 - 120.0
		105Y U Y		CU	No	2.5 - 6.0	
		105Y CB Y	CU	Yes	2.5 - 6.0		
	T3 C -40 °C to +125 °C	125XS U	XPE (optional: PVC)	single-core	CU	No	0.35 - 120.0
		125XS A U			AL	No	0.75 - 120.0
		125XS CB XS			CU	Yes	1.5 - 120.0
		125XS U XS	XPE / XPE (optional: PVC / PVC)	multi-core	CU	No	2.5 - 6.0
		125XS CB XS			CU	Yes	2.5 - 6.0
	T4 D -40 °C to +150 °C	150XE U	XPE	single-core	CU	No	0.35 - 120.0
		150XE A U			AL	No	0.75 - 120.0
		150XE CB XE	XPE / XPE		CU	Yes	1.5 - 120.0
		150XE U XE		CU	No	2.5 - 6.0	
		150XE CB XE	CU	Yes	2.5 - 6.0		
	T5 E -40 °C to +180 °C	180E U	ETFE	single-core	CU	No	0.35 - 6.0
		180G CB G	SIR (high tear resistant)		CU	Yes	1.5 - 120.0
		180G U G	SIR (high tear resistant)	multi-core	CU	No	2.5 - 6.0
180G CB G		CU			Yes	2.5 - 6.0	
T6 F -40 °C to +200 °C	210F U	FEP	single-core	CU	No	0.35 - 6.0	
	200G U	SIR (high tear resistant)		CU	No	0.35 - 120.0	

**Available options:** standard or reduced wall thickness / various strand designs

**On request:** shielded cables with aluminium conductors / larger cross-section / customer-specific designs

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