

## Further innovations for CO<sub>2</sub> reduction

**Standing still is not an option.**  
At LEONI, sustainability and innovation have always been closely linked.

### Cables for sustainable applications for vehicles with alternative drives

- LEONI Hivocar® high-voltage cables for the internal wiring of high-voltage components
- LEONI EcoSense® charging cables leading from the charging station to the vehicle

### Miniaturisation of cables – saving of material consumption, weight and space while maintaining good mechanical and electrical properties

- FLUY cables with ultra-thin insulation wall thicknesses thanks to high-quality compound recipes
- Use of copper-silver and copper-tin alloys to reduce the conductor cross-section
- LEONI EcoSense® Nxt and Nxt+ charging cables with optimised insulation material and improved wires

### Smart cable design – weight and space savings

- Liquid-cooled LEONI Hivocar® high-voltage cables and LEONI EcoSense® charging cables for a significant reduction in conductor and cable cross-sections as well as weight and installation space reduction
- Multifunctional cables: combination of signal cables for various applications in one cable
- Simulation for optimised thermo management and cable design in the development phase

You will find  
further details  
on our website



# LEONI

# LIME<sup>®</sup> VERSE

**YOUR UNIVERSE  
FOR 100%  
RECYCLABLE CABLES**

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 @LEONI Automotive Cable Solutions

# LIMEVERSE®

# Innovative & green

## 100% recyclable cables

The new LIMEVERSE® product line sets benchmark because the cables are **100% recyclable** and reduce the CO<sub>2</sub> footprint by up to half.

The innovation lies in the use of **bio-based insulation materials**, based on raw materials from sustainable renewable sources.

In addition, mass-balanced plastics are used which further reduce the need for petroleum-based raw materials.

At the same time, we ensure that all requirements and specifications of the automotive industry are met without compromise.

## LIMEVERSE® Samples from the LEONI cable-universe

LIMEVERSE® can be implemented on the complete LEONI cable portfolio up to temperature classes of +125° C. The CO<sub>2</sub> savings depend on the type of cable.

LEONI FLRY 0.35–6.0 mm <sup>2</sup> LIME	LEONI LIME Battery Cables	LEONI Dacar® 300 LIME	LEONI Dacar® 535-2 LIME	LEONI Adascar® Sensor 1740 LIME	LEONI exFC® 4 x 1.25 LIME	LEONI EcoSense® LIME Nxt	LEONI EcoSense® LIME Nxt+
Use of mass-balanced PVC compound	Use of mass-balanced PVC compound	Use of a special PVC compound for the sheath  Use of mass-balanced PP compound	Use of mass-balanced PP compound  Use of mass-balanced TPE-U compound	Use of mass-balanced PP compound  Use of mass-balanced TPE-U compound	Use of a special PVC compound for the sheath	Use of a mass-balanced compound for the sheath  Also with bio-based compound available	Use of a mass-balanced compound for the sheath  Also with bio-based compound available
FLRY LIME -15%	Battery Cables LIME -10%	Dacar® 300 LIME -22%	Dacar® 535-2 LIME -33%	Adascar® Sensor LIME -35%	exFC® LIME -20%	EcoSense® Nxt LIME -23%	EcoSense® Nxt+ LIME -36%

CO<sub>2</sub> savings compared to the conventional cable



LIMEVERSE® covers the complete cable portfolio in our LEONI universe...



...without sacrificing thermal, mechanical stability or electrical properties.

