

# E-Mobility Solutions

Cable solutions to meet the mobility needs of the future



# Comprehensive range of cables from power generator to consumer

Studer offers cable solutions for the energy flow from the power generator to the end user. Studer Cables is able to draw on longstanding experience in the development and production of complex cable systems.

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## **BETA**power®

low and medium voltage cables

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Whether from conventional or renewable energy sources:

Studer Cables **BETA**power® cables reliably transport energy to the battery storage system or rectifier of the e-charging station.

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## **BETA**flam® solar cables

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Whether off-grid applications or grid-connected PV systems,

Studer Cables solar cables meet the same high expectations as solar modules – a long service life and high level of resistance to weather impact.

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## **SOLAR**power outdoor XS

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The cost-effective solution for installed cable connections in harsh environments.

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## **SOLAR**power Alu-ATA XS

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The DC low-voltage cable designed for direct underground installation is the economical solution for connecting the battery to the inverter.

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## **ROFLEX**®

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For the most mechanically demanding outdoor applications in extreme

environmental conditions. **ROFLEX**® offers impressive abrasion resistance and media resistance.

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## **BETA**flam® 145

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Fixed and flexible installation in dry, humid and wet rooms. Good weather, ozone and UV resistance.

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## **BETA**therm® 145

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Highly temperature-resistant cable for wiring technical components, such as battery racks in battery storage units.

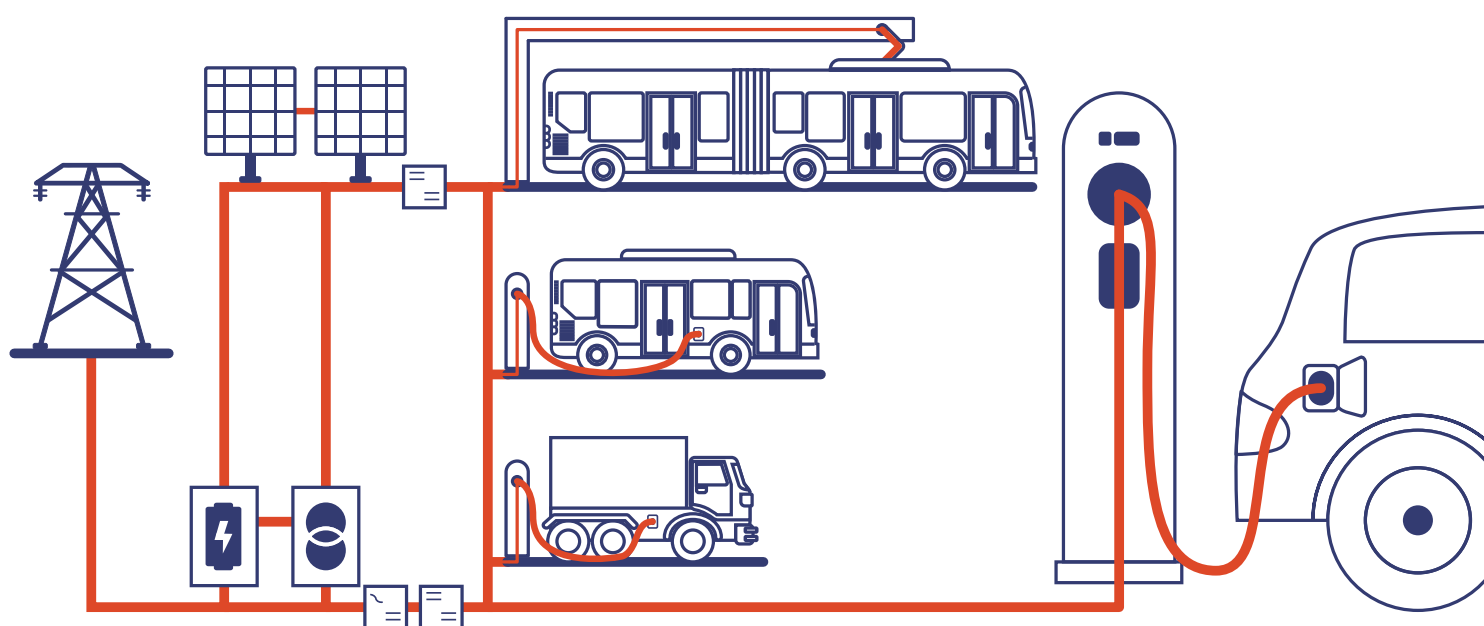
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## **BETA**flam® TRAFO-FLEX

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Highly durable and flexible conductors for connecting electrical components such as transformers in dry, humid and wet rooms.

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### FELTEN Wire & Cable Solutions BV

Habraken 2401  
5507 TM Veldhoven  
The Netherlands

[www.feltenwcs.com](http://www.feltenwcs.com)  
email: [sales@feltenwcs.com](mailto:sales@feltenwcs.com)  
phone: +31(0)40-8200950

 Follow us on LinkedIn

[Contact us](#)



## **BETA**charge® – cable solutions for electromobility

The innovative cable solution by Studer Cables is called **BETA**charge®. The product range was developed specifically to meet the requirements of electromobility. It is also suitable for other applications in the DC range.

### The range at a glance

The **BETA**charge® range has been developed for the use of direct current transmission under extreme environmental conditions, such as cold, heat and solar radiation, as well as under consideration of various media influences.

**BETA**charge® reaches high DC-current-carrying capacity and offers important safety functions such as control and temperature functions, zero magnetic field outside and simple air cooling. **BETA**charge® is very compact, so it is very flexible and space-saving due to its optimised diameter. The version with cooling fins improves cooling and handling performance for a higher power rating.

## Advantages

- Reduced material costs – supply and discharge in one cable
- Reduced installation costs
- Complete elimination of the magnetic field
- No need for short-circuit protection
- Very high current carrying capacity
- Electron-beam cross-linked
- Halogen-free

### **BETA**charge® Indoor

Specially designed for indoor applications. The **BETA**charge® Indoor is certified in accordance with the European Construction Products Regulation.

### **BETA**charge® Outdoor

Specially developed for moving outdoor applications, the **BETA**charge® Outdoor has an abrasion-resistant polyurethane sheath.

### **BETA**charge® Public

The specially grooved cable sheath ensures efficient air cooling. This enables high transmissions. **BETA**charge® Public has an abrasion-resistant sheath and has been specially designed for moving applications, such as electric bus chargers.

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The Netherlands

www.feltenwcs.com  
email: sales@feltenwcs.com  
phone: +31(0)40-8200950

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## Moving forward with Studer Cables

We are familiar with the various application areas and the specific challenges they involve. Future requirements for e-mobility motivate us to develop innovative customer-specific products and solutions.

Start your e-mobility projects with Studer Cables. We offer our partners much more than just cable solutions. In addition to comprehensive implementation advice, we also offer:

- Calculations for current-carrying capacity including cable routing, connection and laying methods
- Engineering and cable services


Talk to us about your projects. Together we'll find a suitable, efficient and sustainable solution.

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