

Cable Solutions for E-Commercial Vehicles

BETAtron®: Highly Flexible. Robust Technology. Smart Details.



Electromobility in the commercial vehicle sector places high demands on components – especially on high-voltage cable systems.

Our new **BETAtron®** high-voltage cables are specifically engineered to meet these challenges, focusing on safety, efficiency, and reliability.

Technological Edge through Experience

With years of industry experience and in-depth expertise in electric drives, we understand the complex requirements of modern commercial vehicles. Our high-voltage cable portfolio is rooted in practical development and meets the highest technical standards – from regulatory compliance to ease of installation.

Flexible and Easy to Install

Tight installation spaces and complex cable routing demand high flexibility. Our cables can be routed with minimal force and small bending radii – both in the vehicle and during pre-assembly. This saves time and allows for safe, clean installation.

Technical Highlights

- HV cables according to ISO 19642 with thin-wall insulation
- High bending flexibility with minimal bend radius
- Abrasion- and cut-resistant insulation
- High pull-off force / secure sheath retention
- Optimized cable surface
- Excellent EMC shielding attenuation
- Compatible outer diameters for standard connector and gland systems
- Efficient cable processing and connector assembly
- Durable and resistant to aging
- Temperature resistant up to 150 °C (temporarily higher)

Rugged in Operation

Commercial vehicles such as buses, trucks, or construction machinery place extreme mechanical demands on cables. Our insulation materials are resistant to abrasion, stone impact, vibration, and extreme temperatures – ensuring reliable operation even under the harshest conditions.

Product Range

Single-core cables with cross sections from 4 mm² to 185 mm² – for a wide variety of power requirements.

Technical Support

Whether it's cross-section dimensioning, installation scenarios, or urgent sample requests – our team of experts is ready to provide professional advice and rapid solutions.

We are your partner for high-voltage cabling in the commercial vehicle sector.



Overview

	Rated Voltage	Temperature Range	Cross Sections
BETAtron® T150 high C-flex (shielded)	1'500 VDC / 1'000 VAC	-40 °C to +150 °C	4 mm ² to 185 mm ²
BETAtron® T150 high flex (unshielded)	1'500 VDC / 1'000 VAC	-40 °C to +150 °C	4 mm ² to 95 mm ²



Further information can be found on our website:
<https://studercables.com/>

In addition to first-class products, Studer Cables offers comprehensive consulting, precise calculations, and additional services. We are happy to assist you personally.

Studer Cables AG

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