

# Cable solutions for pump systems

**BETAdrive®** Halogen-Free, Energy-Efficient, and Sustainable



**BETAdrive®** connection and supply cables are the ideal solution for the energy-efficient operation of pump systems in water treatment, chemical, power plant and cooling water technology. Our halogen-free, EMC-optimised cables ensure safe and sustainable operation of frequency converter-controlled electric motors and protect against bearing currents thanks to their symmetrical design. **BETAdrive®** combines durability, safety and environmental compatibility – today and in the future.

## Efficiency and safety for pump systems

**BETAdrive®** cables contribute to precise and energy-saving control of your motors via frequency converters. These enable the motor speed to be adjusted precisely to the desired flow rates, thus ensuring the necessary process reliability. Our **BETAdrive®** cables are specially designed for these requirements: halogen-free, EMC-optimised and with a symmetrical design for low voltage drop – the ideal combination for safe and sustainable operation in industrial applications.

## Optimally tailored to your application

Whether in the chemical, food or power plant industry: **BETAdrive®** cables offer you flexible application options – indoors and outdoors, fixed or flexible installation. The weather- and UV-resistant sheath and double shielding (foil and optimised tinned copper braiding) guarantee maximum operational reliability and minimise electromagnetic interference. Thanks to our in-house material development, you also benefit from increased temperature resistance and improved performance in the event of a fire.

## Advantages

- Symmetrical design – prevents asymmetric voltage drops and induced currents
- Reduction of bearing currents – extends motor service life
- Multicore and flexible – easy handling
- Low electrical capacitance – optimized for frequency converter operation
- EMC-optimized double shielding (aluminium composite foil and tinned copper braid with min. 85 % coverage)
- Halogen-free – increases safety in case of fire
- Low-toxicity fire gases
- UV- and weather-resistant

## Future-proof cable technology

The safety and availability of your systems is becoming increasingly important. Thanks to high-quality insulation materials, **BETAdrive®** cables are short-circuit-proof, EMC-optimised and support the longevity of your motors. With Swiss quality and a high degree of vertical integration, we also implement individual customer solutions – from consulting to the finished cable solution, including calculations and braid optimisations.

## State-of-the-art materials and manufacturing

To ensure the highest quality, we rely on modern production facilities and specially developed polymers, among other things. These offer the best insulation properties, high temperature tolerance, long service life and additional safety features. Whether standard or special cables: Studer Cables offers you reliable solutions for demanding applications – efficient, durable and safe.



## Connection and supply cables

	Nominal voltage	Temperature range	Cross sections
<b>BETAdrive®</b>	0.6/1 kV	+90 °C max. Conductor temperature +250 °C max. Short-circuit temperature	from 3 × 2.5 mm <sup>2</sup> 3 L + 3 × 1 mm <sup>2</sup> PE to 3 × 240 mm <sup>2</sup> 3 L + 3 × 50 mm <sup>2</sup> PE

## Connection and supply cables (with circuit integrity)

	Nominal voltage	Temperature range	Cross sections
<b>BETAdrive® FE 180</b>	0.6/1 kV	+90 °C max. Conductor temperature +160 °C max. Short-circuit temperature <b>+750 °C in case of fire</b>	from 3 × 16 mm <sup>2</sup> + 3 × 6 mm <sup>2</sup> to 3 × 240 mm <sup>2</sup> + 3 × 50 mm <sup>2</sup>



Further information can be found in our data sheets on our website: <https://studercables.com/en/products/>

In addition to premium-quality products, Studer Cables provides comprehensive consulting, precise calculations, and a wide range of additional services. Our experts will be pleased to answer your questions personally.

**Studer Cables – competent & indispensable.**