

# Cable solutions for the marine industry

## **BETAtherm**<sup>®</sup> and **BETAflam**<sup>®</sup> Single-Core and Multi-Core Cables



Electron-beam cross-linked core cables and multi-conductor cables with special properties offer reliability for the electrification of the marine industry, which our e-mobility of the future deserves.

### **Future-Proof Cables for E-Mobility at Sea and on Land**

Electric drives are the future - not only on land and in the air, but increasingly also in shipping industry. More and more manufacturers are turning to environmentally friendly alternatives such as electric drives. At the same time, the demands on machines and devices are increasing, as failures due to defective cables can be expensive. You can avoid such risks with the reliable and durable products from Studer Cables.

### **Cables for Extreme Conditions**

Shipping industry requires special demands on cables: they must be heat-resistant, robust and short-circuit-proof in order to withstand the harsh conditions at sea. Our halogen-free, electron-beam cross-linked **BETAtherm**<sup>®</sup> and **BETAflam**<sup>®</sup> cables offer increased protection against overloading and impress with their resistance to UV radiation, oil and fuels. Thanks to our specially developed cable sheath, they meet the highest safety and performance requirements.

## Advantages

- UV, oil and fuel resistance
- Sustainable due to very long service life (220,000 h at 90 °C, 5,000 h at 145 °C)
- Very high temperature resistance
- Operating temperature -55 °C to +145 °C
- Highest fire protection properties
- Short-circuit-proof (resistant to thermal pressure)
- Electron beam cross-linked
- Halogen-free
- Various marine approvals (DNV/GL, Lloyd's Register, Bureau Veritas)

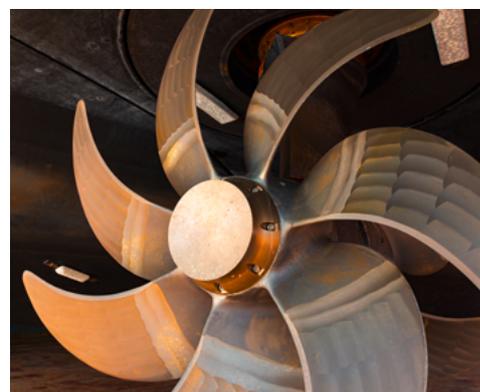
## Customized Solutions for Shipping

With Swiss precision and innovative technologies, we offer flexible, customer-specific cable solutions for electric drives and marine applications. Our **BETAtherm**® and **BETAflam**® cables guarantee operational safety even in the event of short circuits and contribute to sustainability thanks to their long service life.

## Reliable Quality for Maximum Safety

In our state-of-the-art production facilities, we are continuously developing new polymer plastics with outstanding insulating properties that meet the highest requirements in terms of temperature resistance, fire behavior, media resistance and electrical performance.

**Put your trust in Studer Cables - for sustainable, safe and future-oriented wiring at sea.**



## Single-core

	Nominal voltage	Temperature range	Cross sections	Certifications
<b>BETAtherm</b> ® 145	600 / 1000 V	-55 °C to +145 °C	0.25 mm <sup>2</sup> to 300 mm <sup>2</sup>	VDE, DNV/GL, Lloyd's Register, BUREAU VERITAS, CPR

## Multi-core cables (and shielded cables)

Other cross-sections and number of cores on request

	Nominal voltage	Temperature range	Cross sections	Certifications
<b>BETAflam</b> ® 145 flex	600 / 1000 V	-55 °C to +145 °C	2 × 0.5 mm <sup>2</sup> to 5 × 95 mm <sup>2</sup>	DNV/GL, Lloyd's Register, BUREAU VERITAS, CPR
<b>BETAflam</b> ® 145 C-flex	600 / 1000 V	-55 °C to +145 °C	2 × 0.5 mm <sup>2</sup> to 5 × 35 mm <sup>2</sup>	DNV/GL, Lloyd's Register, BUREAU VERITAS, CPR



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

In addition to first-class products, Studer Cables offers comprehensive advice, precise calculations and other services. If you have any questions, please do not hesitate to contact us personally.

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