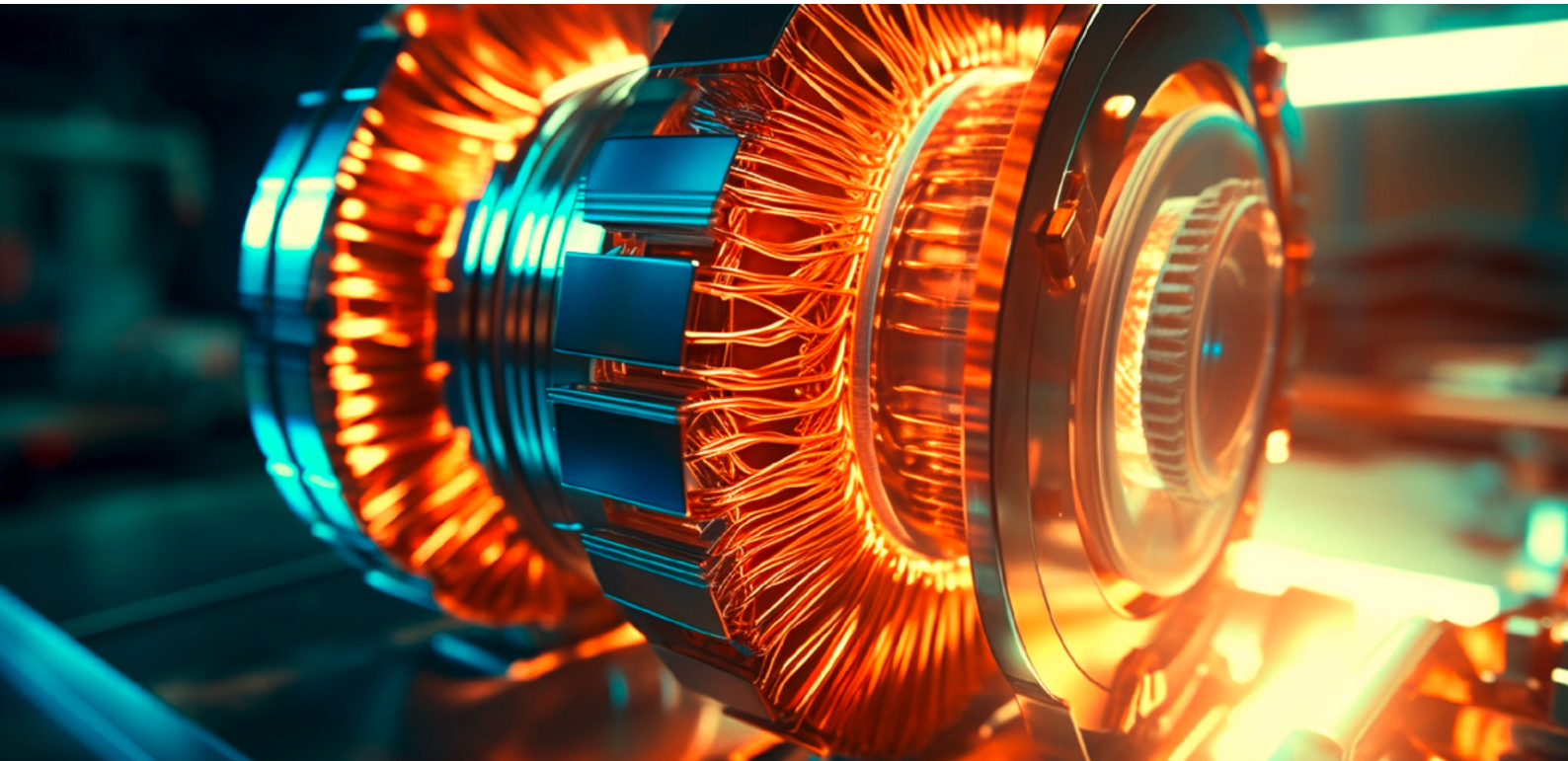


Cable Solutions for Motors and Chokes

BETAtherm[®] 155 and 155 UL/cUL 3289 – For High Thermal Loads



The safety and reliability of technical Systems are becoming increasingly important. In particular, legal regulations concerning fire protection and prevention of fire consequences are becoming increasingly stringent. A crucial factor in preventing fires in electrical Systems is the use of cross-linked insulating materials that ensure cable functionality even during short-circuit events. Our **BETAtherm**[®] wires are specifically engineered to meet these requirements.

The future is electric

The ongoing trend toward electrification is driving the need for motors, transformers, chokes, coils, thermal switches, solenoid valves, and other components. These parts are subject to high thermal stress due to strong current flows in windings and connection cables. In order to manage these high thermal loads and prevent a possible fire due to overloading or overheating in motors and transformers, core cables with short-circuit protection are essential.

BETAtherm[®] 155 – designed for extreme heat loads

Our **BETAtherm**[®] 155 wire is engineered to endure extreme heat. For instance, in dry-type transformers with insulation class F, the permissible average winding temperature during normal Operation is 120 °C. At the hottest point of the winding, **BETAtherm**[®] 155 can continuously withstand temperatures up to 145 °C and manage temporary peaks up to 180 °C.

Advantages

- Very high temperature resistance
- Operating temperature: -55 °C to +155 °C (Thermal Class F)
- Sustainable due to long service life (220,000 h at 90 °C, 5,000 h at 155 °C)
- Flame retardant
- Short-circuit resistance
- Electron-beam cross-linked
- UL 3289 / cUL certified
- Resistant to standard insulating varnishes

Reliable connections for a sustainable tomorrow

Use Studer Cables products for safe, future-oriented, and sustainable connections in your motors and transformers. Our robust, electron-beam cross-linked wires feature increased temperature resistance thanks to a specially developed insulation made from our in-house compound. To ensure maximum product safety and quality, we rely on state-of-the-art manufacturing facilities. Our laboratories are continuously working on the development of new, innovative polymer materials used in the production of our cables. The result: outstanding insulation performance, improved thermal endurance, longer service life, easier handling, and enhanced safety.

Our products not only provide the highest level of safety but also actively contribute to sustainability through their extended service life.



Single-core

	Nominal voltage	Temperature range	Cross sections	Certifications
BETA therm® 155	600 / 1000 V	-55 °C to +155 °C	0.25 mm ² to 150 mm ²	

Single-core with UL certification

	Nominal voltage	Temperature range	Cross sections	Certifications
BETA therm® 155 UL/cUL 3289	600 V	-55 °C to +155 °C	0.25 mm ² to 120 mm ²	UL, cUL



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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