



High-temperature cables are part of our wide range of heat-resistant cables, which are used in demanding applications. Our range includes glass fibre cables for application temperatures up to 550°C and extremely heat-resistant special cables for continuous temperatures of up to 800°C or peak temperatures of up to 1550°C.

High-Temperature Cables / General information

Properties

Special properties of high-temperature cables include high temperature resistance, good mechanical strength and high ageing resistance when used in a dry environment. There are two product groups in the field of high-temperature cables.

1. The application temperature for standard glass fiber cables ranges from -50 °C to + 350 °C. With the use of special, high-temperature-resistant glass silk and the use of the corresponding conductor material, the application range is extended to + 550°C.
2. We can also offer special ceramic-based insulation and sheath materials. These materials can withstand continuous temperatures of + 800 °C and peak temperatures of + 1550 °C even under extreme conditions, e.g. when used in glass, steel and metallurgy.

To extend the range of applications, glass fiber has also proven itself in combination with other materials with high thermal and mechanical strength, such as PTFE, FEP, Kapton®, silicone or mica.

These combinations also enable use in damp environments with very good dielectric strength.

Applications for high-temperature cables include electrical heating systems, domestic appliances (stoves, hotplates, ovens), extrusion and drying systems, industrial ovens, steel and metallurgical technology, glass and ceramic production, etc.