

The Company

for individual cable solutions

ITC Thermo Cable GmbH®



www.itc-thermo-cable.de

With us, you are on the safe side

ITC Thermo Cable GmbH was founded in 2002 by the partners Norbert Lucht, Rainhard Mathews and Gertha Hörchert-Lucht in Norderstedt.

Since its foundation, the company has successfully been established as competent partner in the market segment for high-temperature cables and lines.

Our strong points are consulting for and development of customized lines and cables. In this field we can draw on more than twenty years of experience with regard to special line construction.

In order to provide better customer proximity, a sales office was opened in Kürten in 2008. Due to this location we are now able to respond to our customer's demands even faster and on site.

Due to the ever increasing requirements of living up to both our customers and the market trends, we have implemented ISO 9001 in 2011. This is another corner stone for reliable and trustful cooperation with our partners.

The day-by-day commitment of our highly motivated team is the basis for what we have achieved by now and represents the foundation for consolidating and extending our market position.

We are looking forward to cooperating with you!

Kind regards
The ITC Team



Versatile and customised

Products by **ITC Thermo Cable GmbH** represent safety, reliability and durability. They are used for supply, open-loop control, measuring and closed-loop control. Fields of application range from automotive industry as well as lighting and chemical industry through to aviation and space engineering to traffic engineering. Our Products have proven reliable and effective in many applications in connection with high and low temperature technology as well as modern energy technology, industrial engineering and telecommunications. Contact us and realise your customized cable solution.

Computer-aided production systems, employees with many years of experience and qualification, and continuous extension of our machinery pool allow for constant promotion of product development and increase of the quality level.

Product range

In our capacity as supplier for special lines we would like to give you an insight of our manufacturing options. Being an innovative cable production company in Germany you can benefit from our long-term experience and excellence in the field of high-temperature cables and lines. Our manufacturing range includes:

- **Single conductors**
- **Hose lines**
- **Control lines**
- **Thermal and compensation lines**
- **Coaxial cables**
- **Lines approved for aviation**
- **Glass silk-insulated wires and lines**
- **UL/CSA-approved single conductors**
- **Lacing Cords and Tapes**

Responsibility for people, animals and the environment

Acting out of responsibility with regard to health and safety of people, animals and the environment, we only use insulation and conductor materials that comply with the latest version of the **RoHS** and **REACH** regulations.

- **PTFE**
 - **PFA**
 - **FEP**
 - **ETFE**
 - **Polyimide**
 - **Silicone**
 - **Glass silk up to +800° C**
 - **Ceramic fibres up to +1200° C**
 - **PVC up to 105° C**
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- **Bare copper conductor**
 - **Tin plated copper conductor**
 - **Silver plated copper conductor**
 - **Nickel plated copper conductor**
 - **Pure nickel**
 - **Thermal and compensation materials**
 - **High-temperature alloys**

In-stock range

ITC Thermo Cable GmbH provides a broad in-stock range of more than 700 km of selected standard wires and more than 100 km of coaxial cables for immediate availability.

Our fluoro-plastic products are characterised by excellent resistance against chemical substances, acids and oils and by outstanding electrical properties.

Coaxial cable based on MIL-C-17

Type	Shaft resistance	Capacity pF / m max.	Attenuation dB / 100 at 400 MHz max.	Dielectric PTFE A Ø / mm	Sheath insulation	Outer diameter mm / max.
RG 178 B/U	50	105	108	0,84	FEP	1,90
RG 179 B/U	75	75,5	68,9	1,60	FEP	2,66
RG 316 U	50	105	68,9	1,52	FEP	2,59
RG 316 U DS	50	105	68,9	1,52	FEP	3,00
RG 142 B/U	50	105	38,4	2,95	FEP	5,08
RG 400 U	50	105	34,4	2,95	FEP	4,95
RG 187 A/U	75	75,5	68,9	1,6	PFA	2,66
RG 188 A/U	50	105	65,6	1,52	PFA	2,59
RG 196 A/U	50	105	108	0,84	PFA	1,90
RG 50 mini	50	85	130	0,52	FEP	1,17

PTFE wires

Type	Cross section	Conductor structure	600 V I/O type - E A Ø / mm
26	0,141	7 x 0,160	0,89 - 1,09
26	0,155	19 x 0,102	0,89 - 1,09
24	0,227	7 x 0,203	1,02 - 1,22
24	0,241	19 x 0,127	1,02 - 1,22
22	0,382	19 x 0,160	1,17 - 1,37
20	0,616	19 x 0,203	1,37 - 1,58
18	0,963	19 x 0,254	1,63 - 1,88

Conductor material: silver-plated copper; Insulation: extruded PTFE
Standards: In compliance with Mil-W-168787/4, NEMA HP3



**Heat resistance
up to 1200°C**





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