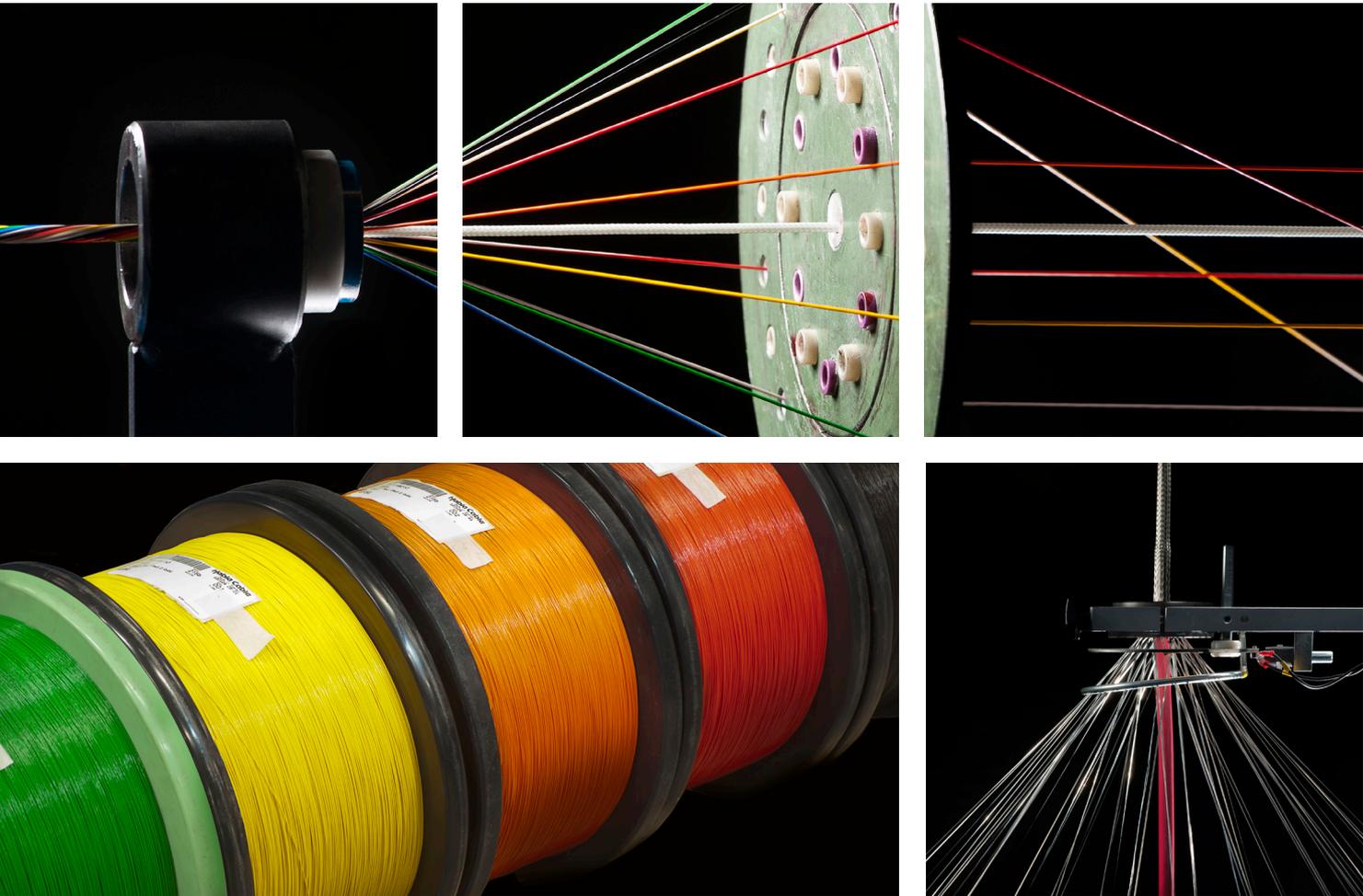


Habia Cable



World Class Solutions
Wires, Cables and Cable Systems

Creative Cable Solutions for your business

Habia Cable is today one of Europe's leading manufacturers of special wire, cable and cable systems. Habia Cable has built an enviable reputation for the design and manufacture of high performance standard and custom-designed cables and cable systems, using constructions and materials to meet the most demanding requirements. Our products are found in nuclear, defence, telecom and a variety of industrial applications.

Habia Cable's most important competitive advantages are a high level of service, high technical competence and a global organisation. With sales offices across Europe and Asia, and

production facilities in Sweden, Germany, Poland and China, we sell our products in 50 countries on five continents.

Habia Cable is a Swedish company, founded in 1941, and has been a cable manufacturer since 1957. Sales annually are around 70 Million Euro and the number of employees is approximately 500. Habia Cable is owned by Beijer Alma, an industrial group listed on the Stockholm Stock Exchange, which is focused on production of components for customers in high technology sectors.



Photo: Söderfors factory, Sweden



Photo: Norderstedt factory, Germany

A focus on service

As one of Europe's most successful manufacturers of special wire, cable and cable systems, we recognise the importance of providing a consistently high level of service to our customers.

We offer:

- A prompt response to enquiries and queries
- Short lead-times
- Low minimum order quantities
- Cost effective standard products and custom designed solutions
- Local support to our customers thanks to our network of sales offices and factories

Our expertise

Habia Cable has over 50 years' experience in designing and manufacturing cables for harsh environmental conditions. This is reflected in our material portfolio, which includes fluoropolymers, and high performance halogen free materials.

Over the years, we have built up a significant knowledge covering industrial, defence, nuclear and telecommunications applications.

Our promise

We at Habia Cable are committed to the highest standards in quality, environment and business ethics. All our offices and production facilities are ISO 9001:2000 certified. In the nuclear area, we work according to the industry standards NQA1 and 10 CFR 50 B. Our production facility in Sweden is ISO 14001 certified, and all other production facilities will soon have the same certification.

Habia Cable has implemented a policy for corporate social responsibility. This policy is based on international agreements and guidelines, and enables us to meet our customers' increasing expectations regarding business ethics, and social and environmental responsibility.



Photo: Lubieszyn factory, Poland



Photo: Changzhou Production, China

Creative Cable Solutions for your business

The Product Range

Equipment Wires

To various standards including NF, SS, NEMA, DEF STAN.
Voltage rating to 1000v.

- **ETFE** - Temperature Range **-65 to +155°C**
- **FEP** - Temperature Range **-65 to +200°C**
- **PTFE** - Temperature Range **-65 to +260°C**
- **PFA** - Temperature Range **-65 to +260°C**
- **Polyimide** - Temperature Range **-65 to +200°C**
- **PEEK** - Temperature Range **-60 to +190°C**
Radiation tolerance **>107 Gy**

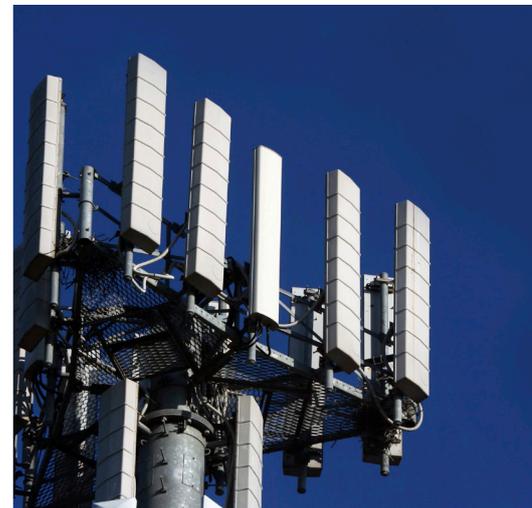
Coaxial Cables

- A wide range of standard RG style cables in addition to low noise, low loss, super screened and sub-miniature versions.
- **Speedflex** - LSOH alternatives to RG styles. Operating frequency up to **3GHz**.
- **Speedfoam** - A low-cost, low-loss flexible communications cable. Operating frequency up to **2,5GHz**.
- **Speedfoam 240 und 400 HT** – high temperature, low loss coax. Temperature Range **-65 to +200°C**

- **Flexiform** - A hand-formable alternative to semi-rigid cables used successfully at operating frequencies up to **18GHz**.
- **Multibend** -A flexible alternative to semi-rigid cables. Operating frequency up to **18GHz**.

Defence Standards

- **LSI 155** - Cross-linked ETFE to Defence Standard 61-12 Part 33/001
- **HFI 140** - HFI 140 to Defence Standard 61-12 Part 18. Low-smoke and zero halogen.
- **Multicore cables** to Defence Standard 61-12 Part 25.
- **Hi-Flex** - Power Cores for Armoured Land Vehicles Power cables are designed to be tough and highly flexible, with exceptional current carrying capabilities.
- **Landguard** - Jacketed cables for Armoured Vehicles to meet German VG 95218 Pt 24K, 25G, 27B & 28D specifications, these cables are tough, durable and resistant to variety of oils, fuels and other chemicals.



Fire Performance Wires and Cables

- **Habiaflame²** - Flame retardant to IEC 60332-3-24
Continuous operating temperature of **-200 to +260°C**
120 Minutes at **+830°C** - Excursions to **+1565°C**
- **HFFR (Halogen Free Flame Retardant)** - A wide range of LSOH insulation materials to meet IEC 60332 and as well as options to meet IEC 60331.

Shielded Signal Cables

From our extensive range of equipment wires, Habia Cable are able to offer a wide range of shielded cables incorporating pairs, triples and quads. Various levels of screening can be achieved using a combination of braids, foils and tapes.

Custom Multicore and Hybrid Cables

Custom designed cables provide a solution to the customer's unique technical challenge, and can also be a cost effective alternative to standard products. Elements may include signal, power, coaxes, fibre, pneumatics, strain members and any numbers of pairs, triples etc., individually or overall screened to

meet specific electrical requirements. A wide range of insulation and sheathing materials gives us the flexibility to offer for even the most demanding customer applications.

Demands may include:

- Water resistance
- Fire resistance and flame retardancy
- Low temperature - High temperature
- Small diameter, Lightweight
- Strahlungsbeständigkeit
- Radiation resistance
- Halogen-free
- Low smoke and toxicity
- Fuel, oil and chemical resistance
- Flexibility and long flexlife
- Stiffness
- Vibration
- Cut-through and abrasion resistance
- Electrical parameters



Creative Cable Solutions for your business

The Product Range

Habiatron Radiation Tolerant Cables and Coaxes for Nuclear Applications

- Flame retardant and good chemical resistance
- Small size and weight in relation to performance
- Low and high temperature
- Small minimum order quantities
- In-house harness assembly production

International Nuclear Approvals:

- IEEE 383-1974
- IEEE 383-2003 (60 years)
- IEC 60754 and 60544

Cable Systems

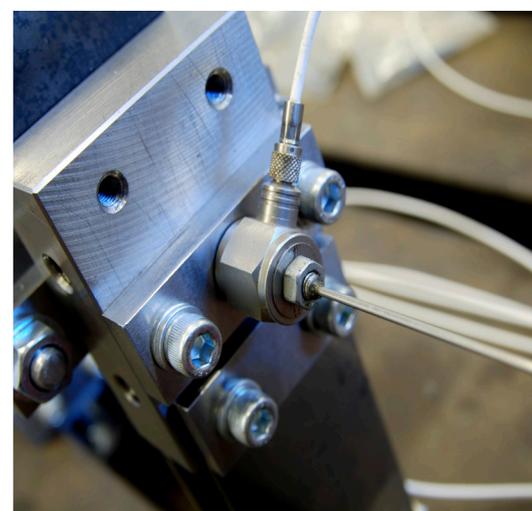
Our Cable Systems Division are experts in design and manufacture of cable assemblies for demanding environments. We can achieve properties such as water blocking, long flex life, resistance to temperatures and chemicals, and spiralsation. Applications include gas turbines, industrial power tools, weapon systems, military communication equipment, and ROVs and submarines. We use hot and cold moulding to achieve tough yet cost effective cable harnesses.

Habiasense Measurement Cables

- Typical sensor applications include accelerometers (including positioning, speed, vibration and displacement), chemical (including lambda / O2), level and flow, metrology, pressure, proximity and radiation.
- Measurement cable types - the variety of environments our cables are subjected to requires a varied range of Habiasense products.
- External factors such as high and low temperature exposure, vibration and movement, oil, fuel and water immersion and even radiation all influence the cable's overall performance.

Habiatherm Thermocouple Cables

- Extension and Compensating Cables
- Types - E, J, K, R, S, T, NB
- Conductors to International Standards
- Standard types - single, twin twisted and twin flat
- Specials - multicores, individually and collectively screened



Application areas

With more than 50 years' experience in special cable manufacturing, we understand our customers' cable needs,

and work closely together with them to find the best solution for their application – be it a standard or custom designed product.

Defence

- Surface ship and submarine systems
- Fighting vehicles
- Electronic warfare
- Weapon
- Military communications
- Radar systems

Control and Instrumentation

- Sensors
- Measurement
- Control panels
- Probes
- Heating

Nuclear

- NPP inside and outside containment
- Instrumentation
- Control
- Power
- Data/Video
- Special cables

Industrial

- Gas turbines
- Offshore
- Raw material processing
- Lighting
- Power Tools

Transport

- Rolling stock
- Signalling
- Automotive
- Power distribution
- Lifts
- Escalators
- Alarm systems
- Space
- Marine diesel engines

Telecom

- Antennas
- Base stations
- Site installations

Offshore

- Topside
- Subsea
- Downhole
- Medium Voltage high temp
- Splices and termination



Habia Cable

Habia Cable develops, manufactures and markets standard and custom designed cables and cable assemblies and harness systems for demanding industry applications.

In its segment,

Habia Cable is today one of Europe's leading wire and cable manufacturers.

The company has a global presence and sales in more than 50 countries worldwide.

Habia Cable's most important competitive advantages are a high level of service, high technical competence and a global organisation.

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