

30 YEARS EXPERIENCE IN SPECIAL CABLES DESIGN & MANUFACTURING



Special Cables & Conductors



Understanding the market

FCT was created to manufacture **tailor made** low voltage electrical cables with one purpose: to offer competence, technology, quality and an excellent service to all our customers that operate in the most **varied industrial sectors** and reference markets. In 1986 we started to offer **customized cables**, produced by means of sophisticated technologies, without requiring significant **minimums to be set up**. That was exactly what the market needs were, so we made them our own and turned it into our strength.

Our research, development and customization together with our production capacity are the reasons why customers from all over the world choose us. Our skills in producing special cables have allowed our company to be recognized, after over **35 years** in the business, as a **world leading manufacturer**, that is capable of innovation through **technical solutions designed by our own engineers**. Over the course of 2021 FCT has started to implement its **2021-2025 strategic plan** that involves important investments in human resources, technology, machinery, equipment, systems and spaces that are geared towards **tripling our production capacity** and **reducing delivery time**. Both our future spread out with challenges and opportunities and our solid past history standing behind us, represent the present of FCT.



Designing quality

We design and manufacture cables in accordance with the current national and international regulations. We follow the certification specifications that change according to different clients and different sectors. We comply with the quality standards required by the UNI EN 9001:2015 regulation and the environmental standards set by the UNI EN ISO 14001:2015 regulation. Our supplies are accompanied with detailed technical cards. We carry out scrupulous testing complete with test reports and certification of compliance as well as on demand type test at qualified internal or external labs.

Following the introduction of the CPR EU n0.305/2011 regulation (Construction Products Regulation) we have designed and developed a wide range of products that are type approved in various sectors and are able to provide new type approvals. Our quality department utilizes an advanced technical support that is tailored to monitor production in all its phases and can carry out on demand inspections and testing alongside our clients or a third party chosen by our clients.

FLAT CABLES



SPECIAL CABLES



Customized production

Since our activity started up we have always believed that accurate designing is the best path to create high quality products.

Our customers' requests, complete with specifications or application instructions, are processed by our technicians with a thorough constructive analysis as well as testing in accordance to regulations.

At the same time our product development team carry out an extensive search for the most suitable raw materials for different functions. We offer our clients a quote alongside our

technical analysis, where solutions to potential inconsistencies can be found.

Once the order is labelled we quickly move on to the construction of the products on order, in accordance with the customer requests.

Our warehouse team takes care of packaging, which is at times customized, and stores the goods that are out for delivery within the agreed time frame.

All production phases are carried out within our factory, this is our field of action:

POWER CABLES



SELF-COOLING



ROPES



- ◇ Tinned red flexible, semi rigid or rigid strands with cross sections between 0,10 mm² and 1500 mm²;
- ◇ Insulation, small tubing and tubing that can be extruded in our division, round and flat cable dies with a diameter between 0.30mm and 90mm in various types of material such as PVC, Rubber, polyurethane, polyethylene, BD/MD/HD, polyester thermoplastics or LSZH elastomeric material etc...;
- ◇ Cable joining twisting and stranding can be carried out with twisting, untwisting double twisting or planetary twisting equipment etc...;

- ◇ Electrostatic or electromagnetic shielding that can be taped, braided or wired etc...;
- ◇ Tape, braided or wire armor etc...;
- ◇ Main parts in steel, aramid, dyneema, polyester and nylon fibers etc...;
- ◇ Paper, TNT, Polyester PTFE, Kapton Mica taping etc...

Our design versatility enables us to respond to any production request, hence we recommend direct contact between customers and our research and development team.

COMPENSATION & EXTENSION



INSTRUMENTS & CONTROLS



FIRE RESISTANT



Meeting the need for simplicity and complexity

We produce special and hybrid cables that feature specific mechanical electrical and geometric characteristics.

Depending on the type of sector or use that our clients communicate to us during the designing stage, we have different and varied heterogeneous elements to create the final product: power cables, signal cable, optical fiber, serial cable, fluid tubes etc...

Our cables can respond to different demands such as:

- ◊ **Low toxic and corrosive gas emission;**
- ◊ LSZH that are used in environments such as schools, theatres, hotels and hospitals;

- ◊ **Fire resistance** with integrity guarantee;
- ◊ **Low temperature** resistance;
- ◊ **Chemical agents** such as hydrocarbons resistance;
- ◊ **UV rays** resistance;
- ◊ **Abrasion** resistance.

Because of our experience and the advanced technology that we use, we are able to produce different types of cables on a small or large scale: power and control cables, ground and instrumentation cables (including thermocouple), PA/GA systems, flat, mobile laying or self-supporting cables etc...

CONTINUOUS FLEXING USE



WELDING CABLES



SELF CARRYING CABLES



Complying with standards

We develop special cables that feature a wide range of applications. During our 35 years in the business we have intertwined, coupled and layered very different materials in order to guarantee quality, efficiency and customization in many industrial areas.

At present we are accredited suppliers for:

- ◇ Industries
- ◇ Civil structures
- ◇ Onshore and off shore OIL & GAS
- ◇ Railways
- ◇ Shipbuilding sector
- ◇ Cathodic protection
- ◇ Renewable energy

- ◇ Mobile laying cables for cranes and festoon systems
- ◇ Automation
- ◇ Welding
- ◇ Transformers
- ◇ Cable cars
- ◇ Submersible pumps
- ◇ Mining and tunnels
- ◇ Wiring
- ◇ Petrochemical industry
- ◇ Power inverters
- ◇ Other special cables

Our cables have no limits, they are used over an extensive geographical area that covers the whole globe.



Responding with competence

In September 2021 we opened our new industrial site in the outskirts of Turin, where we have located all our production activities as well as our administrative functions. Such site is spread over **20 000 square meters**, 12 000 of which are indoor. FCT has made considerable technological investments in order to create our 4.0 factory.

Our **sales office** collects customers' requests and quickly process them in collaboration with our technical and quality office so as to provide a rapid as well as financially and technically feasible response. Please consult our contact for the sales office: sales@ftc-cavi.com

The **administration** department is available for all administrative financial and tax queries. This is the contact email for the administrative division: amministratore@ftc-cavi.com



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