

Linking cutting-edge cables to high-flying industry

Wires and cables for Aerospace applications



Prysmian
Group

Linking
the Future

Draka Fileca at a glance

Prysmian Group has been a leader in the aerospace cable market since the 1960s when the predecessor, Fileca, provided first generations of Aerospace cables to the Concorde program. Today, the Group continues to build on that prestigious heritage, leveraging decades of knowledge and expertise to bring customers the latest in high-quality cable and wiring solutions for civil, military and space aviation applications.

Aviation applications

Prysmian Group is integrating the most innovative technologies in the production of electrical and optical cables for aircraft and helicopter manufacturers all over the globe. The Group has continually met the specifications and expectations of the industry for reduced dimensions and weight, arc-tracking resistance, great mechanical resistance, resistance to chemicals and high temperatures.

From modelling and designing, to technology and production, the aviation portfolio reflects Prysmian Group expertise in the industry, while demonstrating the sheer breadth of the manufacturing processes in the production of premium and innovative aviation cables including: airframe/hook-up wires, copper data transmission cables, optical fiber data transmission cables and special cables.



Space applications

Draka Fileca designs and develops wires and cables that can withstand the severe constraints placed upon them by the full spectrum of space environments: Radiative environment, Cryogenic temperature, ATOX environment.

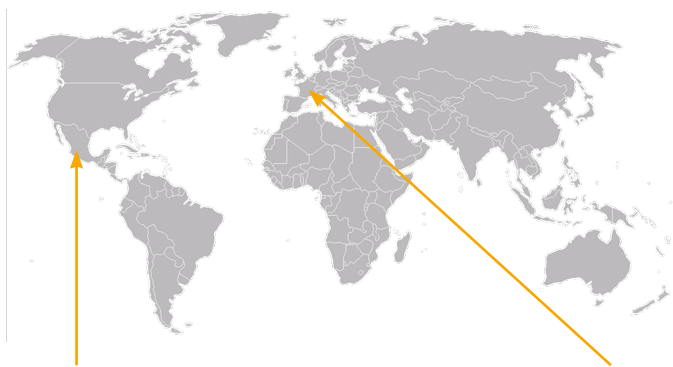
Quality, safety and environment

Prysmian Group offers the highest-quality products on the market, certified by ISO 14001:2015, ISO 9001:2015 and EN 9100:2018 for both French and Mexican operations.

MIL cables are certified (NEMA WC M27500:2020 and SAE AS22759) by NAVAIR.

The space range is ESA certified.

Production plants



Durango (Mexico)

A workshop managed by France
ISO 9001 - EN 9100
40% of production
Dedicated to high runner P/N's
About 40 people

Sainte-Geneviève (France)

The Mother plant
ISO 9001 - EN 9100
60% of production
Thousands of P/N's
About 160 people

Our vision

Prysmian Group employees are a key factor in the continuous effort to improve safety, product quality and productivity within the business, and so, commits to ISO 45001:2018 for the safety of people.

The Group is also certified ISO 27001:2017, a cybersecurity certification.

Prysmian Group priority is the satisfaction of its customers.

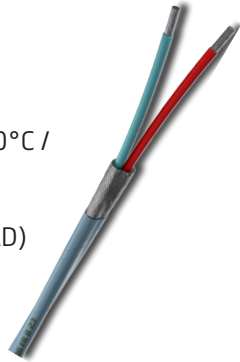
Leveraging Prysmian Group expertise in extrusion process for energy cables and optical fiber portfolio for Telecom, Draka Fileca strategy is to mainly support Aerospace industry in its transition towards electric and hybrid propulsion technologies and its need for data transmission bandwidth increase.

Product range

In order to meet severe specifications required by Aviation & Space applications, Draka Fileca historically developed wrapping technology of Polyimide and PTFE tapes for wire insulation and cable jacket. Draka Fileca acquired a significant experience as well in Fluoropolymer extrusion for Data Transmission cables mainly.

Hook-up

- Nickel plated Copper conductor 260°C / 115V AC (DR)
- Copper clad Aluminium conductor, ultralight weight 180°C / 115V AC (AD)
- For retrofit applications, Nickel plated Copper conductor 200°C (CF) / 260°C (DM)



Optical fiber cable

- Single fiber (OM1, OM3, OM4 Multi-mode or Mono-mode) with tight or semi-loose design
- Single large core fiber with tight design (JN1008 for Eurofighter)
- Multi fiber (12 * OM3 Multi-mode) with loose design



Power feeder

- Nickel plated Copper (DG) with flexible conductor (DH)
- Bare Aluminum (AD)



Data Transmission

- Quad Ethernet cables: ABS (KD24), EN (KL24) & MIL (AS6070/1) mainly
- Coaxial cables
- Twinax cables
- USB-HDMI cables



High Voltage 230V AC

- Nickel plated Copper (DZ) and Bare Aluminum (AZ)



MIL wire and cable

- MIL (M22759 wires including smooth surface and M27500 cables)



Special

- Thermocouple, cables for engine, flight test...



Space

- ESA certified for ESCC 3901-001, ESCC 3901-002 and ESCC 3901-002-P cables (satellites)
- RA6 qualified (Ariane 6)



Prysmian Group is the world leader in the energy and telecommunication cables and systems industry.

With almost 150 years of experience, the Group is strongly positioned in high-tech markets and offers the widest possible range of products, services, technologies and know-how.

30,000 EMPLOYEES
26 R&D CENTRES AROUND THE WORLD



Prysmian Group specialises in underground and submarine cables and systems for power transmission and distribution, special cables for applications in many different industries, and medium and low voltage cables for the construction and infrastructure sectors.



For the telecommunications industry, the Group is the world's largest provider of cutting-edge cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibers, optical and copper cables and connectivity systems.



Prysmian Group is committed to environmental responsibility in our production processes, the protection of the global environment, and the responsible management of relations with the local communities in which the Group works.



For us, innovation means meeting the needs of our customers and communities by understanding their business drivers as quickly as they do. To do that, our team of over 900 Research & Development professionals is constantly looking to the future, predicting and identifying emerging trends in each of Prysmian Group industries and sectors.

Draka Fileca is a member of the following associations:



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