

# LINKING CUTTING-EDGE CABLES TO HIGH-FLYING INDUSTRY

Wires and cables  
for aerospace applications



# PRYSMIAN AT A GLANCE

**Prysmian 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 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 strength, durability against chemicals and high temperatures. From modelling and designing, to technology and production, the aviation portfolio reflects Prysmian 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.



## Quality, safety and environment

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

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

The space range is ESA certified.

## Space applications

Prysmian 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.

## Our vision

### **Prysmian priority is the satisfaction of its customers**

Prysmian 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 for the safety of people.

Leveraging Prysmian expertise in extrusion process for energy cables and optical fiber portfolio for digital solutions, Prysmian strategy is to mainly support the aerospace industry in its transition towards electric and hybrid propulsion technologies and its need for data transmission bandwidth increase.

## 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 PRODUCT RANGE

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

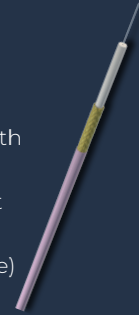
## Hook-up

- Nickel plated copper conductor 260°C / 115V AC (DR)
- Copper clad aluminum conductor, ultralight 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 Single-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)



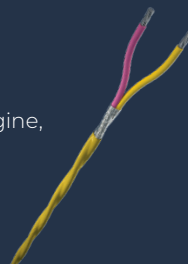
## MIL wire and cable

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



## Special

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



## Space

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



Prysmian is a member of the following associations:



Prysmian is the world leader in power and telecommunication cables and systems.

**33 000**  
EMPLOYEES

With more than 150 years' experience, Prysmian operates in high-tech markets, and offers the widest possible range of products, services, technologies and know-how.

**27**  
R&D CENTRES  
WORLDWIDE

AT PRYSMIAN, INNOVATION IS THE BACKBONE OF OUR CSR APPROACH, DRIVING THIS COMMITMENT TOWARDS SUSTAINABLE AND AMBITIOUS SOLUTIONS.

**The 4 core commitments of Prysmian's CSR policy:**

- 1. Carbon neutrality**
- 2. Environmental protection**
- 3. Solidarity, engagement and impact**
- 4. Innovation and sustainable growth**



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