

At Casmocable, we are not just a manufacturer of specialized high-temperature wires and cables we are an innovative global solutions provider with over 20 years of expertise. Our reach extends across diverse industries delivering not only conventional products, but also custom solutions tailored to meet our clients' most demanding applications.

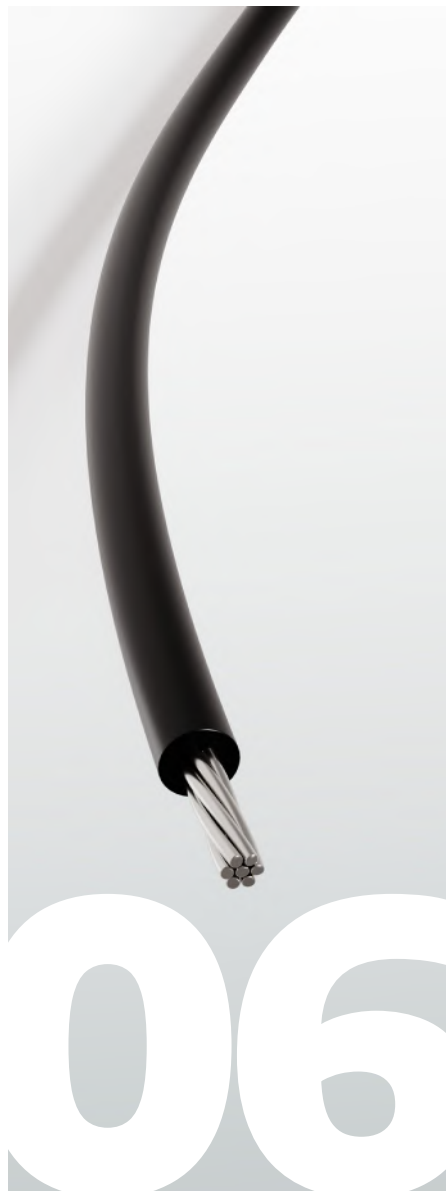


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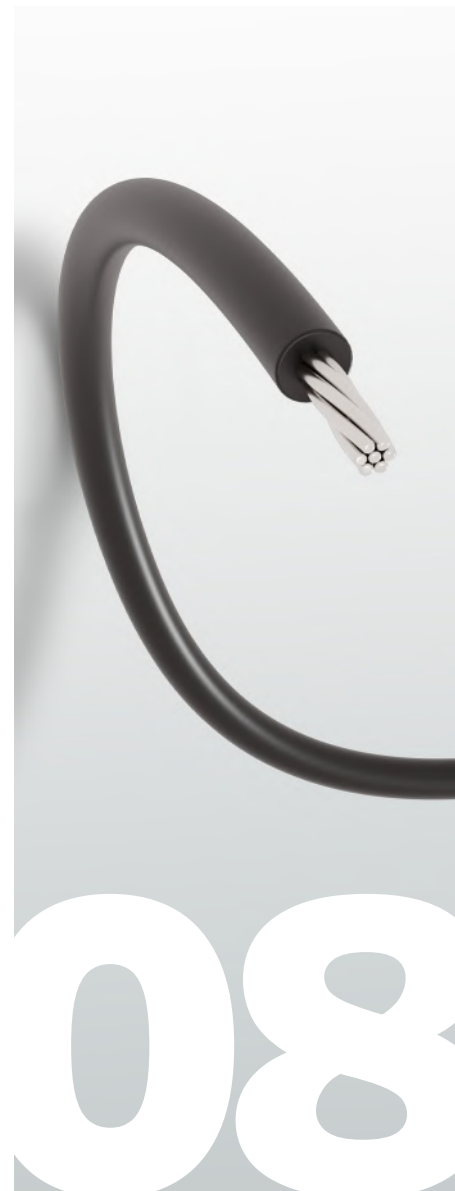
**Charting a Path  
of Excellence  
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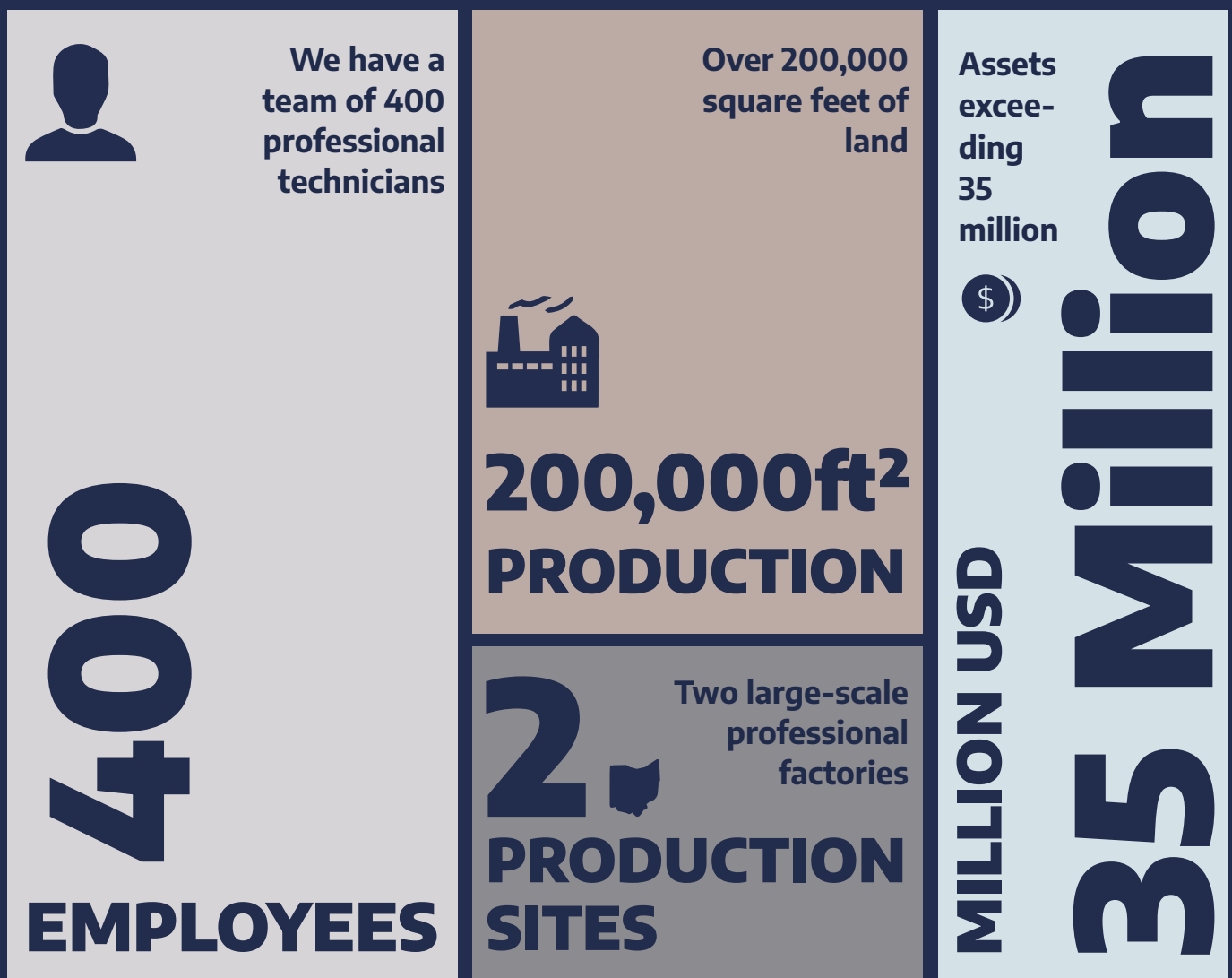
# ROOTED IN EXPERTISE THE CASMO CABLE STORY

## FACTS & FIGURES

Here are some data  
points you should  
know about us

Casmo cable was established by a group of seasoned veterans from the high-temperature specialty cable industry, bringing together extensive knowledge and experience in sales, production, and quality control.

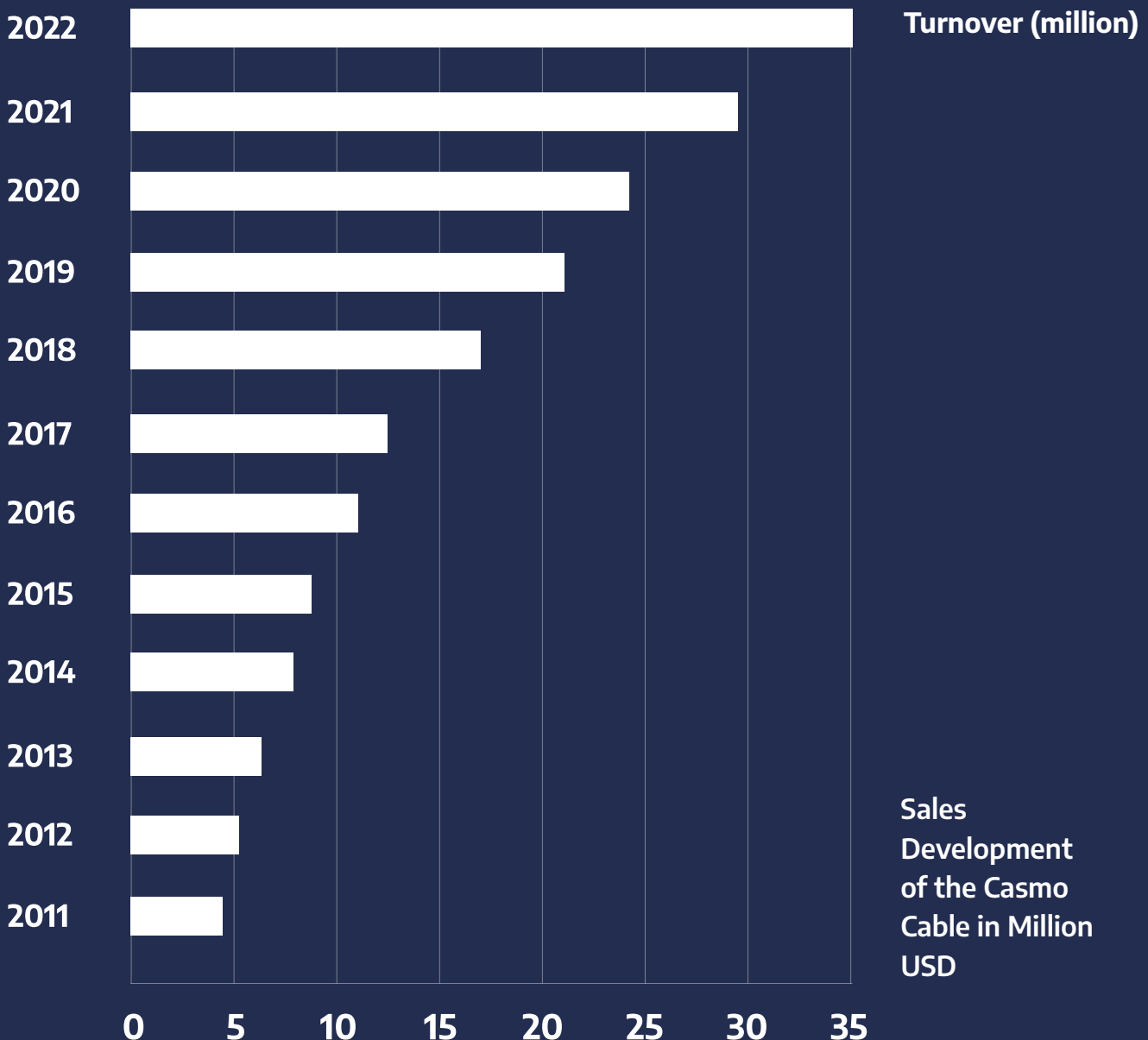
We share a united vision: to provide world-class solutions for specialty cables designed to withstand extreme environments.

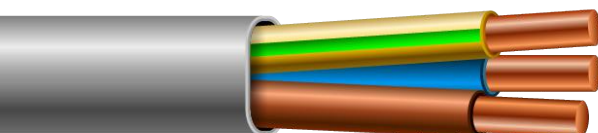
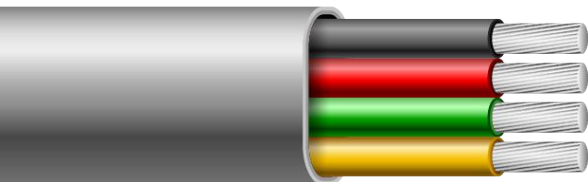
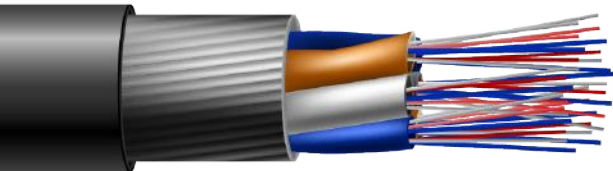
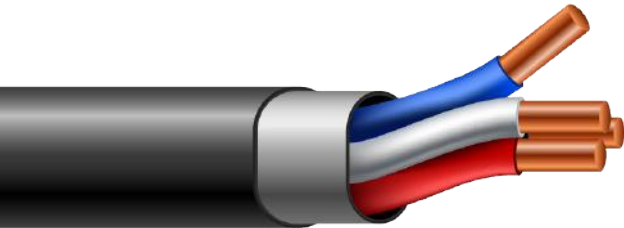
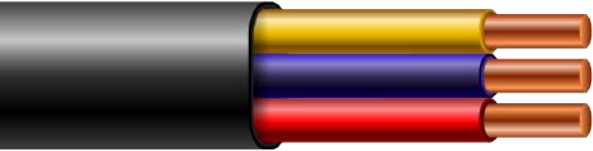
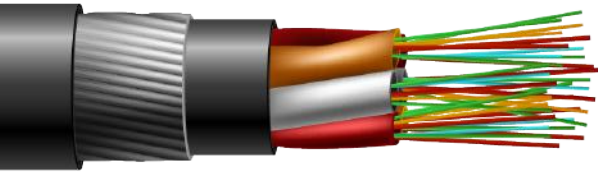


Bolstered by our in-house manufacturing facilities and a network of collaborative factories, our journey has been a testament to unwavering commitment and pursuit of excellence. We have consistently delivered cables of unmatched quality and reliability, designed to perform optimally even under the most demanding conditions.

Leveraging the collective expertise of our team and our commitment to quality, casmo cable has earned a reputation for excellence within the high-temperature specialty cables niche market. As we continue our journey, we remain focused on innovation, driven to contribute significantly to the industry with our high-performance solutions.

# CHARTING A PATH OF EXCELLENCE THE CASMO CABLE JOURNEY





# POWERING EXTREMITIES OUR PRODUCT RANGE

At Casmo cable, we see cables not just as connections but as lifelines, powering complex machines and systems even under the most extreme conditions - be it amidst the freezing Arctic Ocean, the blistering heat of a desert, or the boundless expanse of space. These challenging environments highlight the formidable capabilities of our high-quality, specialty cables.

We've dedicated ourselves to a unique mission: to deliver energy and communication in the most reliable, consistent way possible, transcending the seemingly impossible. "Powering Extremities" perfectly encapsulates this commitment. It's not just a slogan, but our promise to you.

**Fluoropolymer-Insulated Wires and Cables**

**Mil-Spec Wires**

**Silicone Rubber Wires and Cables**

**Ultra-High Temperature Wires and Cables**

**PEEK Insulated Wires**

**High Voltage Wires and Cables**

**Thermocouple Compensation Wires**

**Green Energy Cables**

**Coaxial Cables**

**Special and Custom Wires and Cables**

**Wire Harness and Cable Assembly**

# POWERING EXTREMITIES

## INDUSTRIES WE SERVE

With nearly 400 professionals working from our 200,000 ft<sup>2</sup> facilities and various production bases around the globe, we strive to provide the right cable solutions for your specific needs every day. This allows you to focus on what truly matters, leaving the worries of cables and wires to us. Let casmo cable create real value for your operation, showcasing our strengths in catering to the most extreme environments.



Snowy Mountain Environment



Deep Sea Cable  
Operations

### **Energy & Industrial Equipment:**

Including industries such as power, industrial control, chemical, oil and gas, metallurgy, and power equipment manufacturing.

### **Construction & Infrastructure:**

Including industries such as construction, tunnels, subways, and grid construction.

### **New Energy & Electric Vehicles:**

Including industries such as solar power generation, wind power generation, energy storage equipment, and electric vehicles.

### **Communication & Information Technology:**

Including industries such as broadcasting and television, computer networks, and telecommunications.

### **Aerospace & Defense:**

Including industries such as aerospace, high-voltage electrical systems, and military applications.

### **Medical Equipment & Biotechnology:**

Including industries such as medical equipment and biotech devices.

### **Automotive & Transportation:**

Including industries such as automotive and rail transit.

### **Machinery & Manufacturing:**

Including industries such as machine and equipment manufacturing, industrial automation equipment.



# POWERING EXTREMITIES

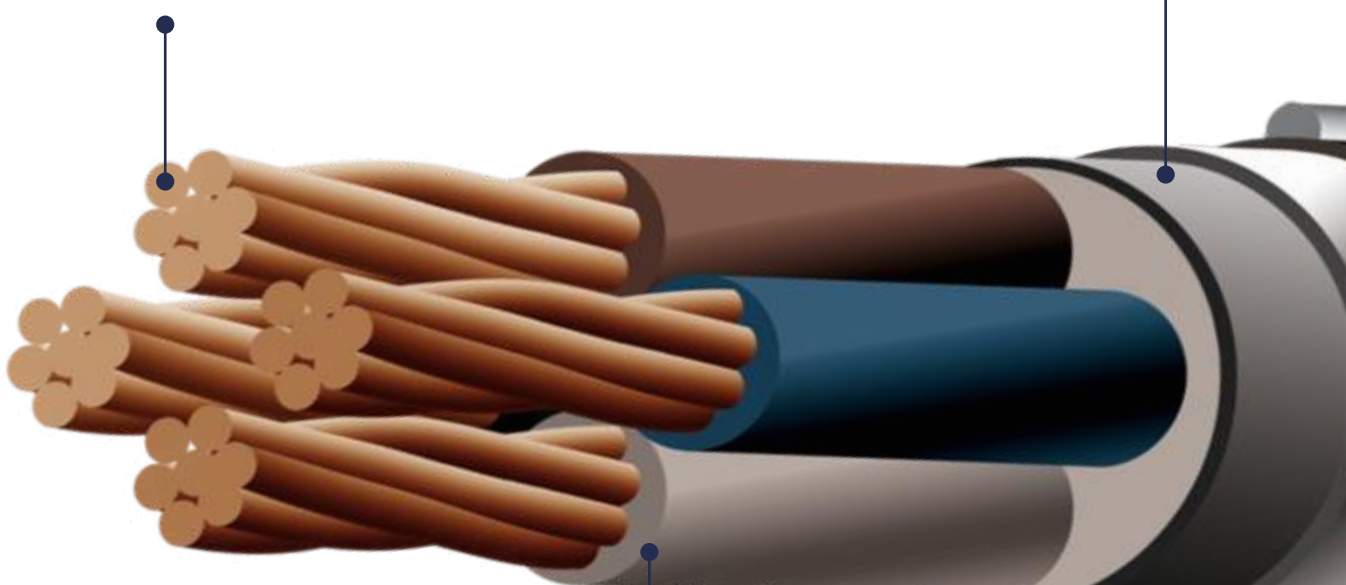
## TAILOR-MADE CABLE SOLUTIONS

Temperature Resistant from - 273 °C up to +1550 °C

### 01. Conductor Materials

- Copper bare, tin-plated, silver-plated or nickel-plated
- Alloy, pure nickel, thermo- and compensating material
- Conductor cross-sectional areas from 0.00012 mm<sup>2</sup> to 300 mm<sup>2</sup> / AWG56 to AWG4/0

01



### 02. Stranding 02

2 to 120 cores in layer or pair stranding

### 03. Insulation and Sheath Materials

**Fluoropolymers:** PTFE, PFA, MFA, FEP, ETFE, ...

**Silicone Rubber:** standard mixtures, plus mixtures for customized applications

**Thermoplastic Elastomers:** TPE-U, TPE-E, TPE-S, TPE-O, TPE-V, ...

**Special Thermoplastics:** PEEK, PI, PEI, ...

**Inorganic Materials:** glass fiber, mica, ceramic fibers, ...

**Cross-linked Materials:** XVH, XL-PE, ...

**Thermoplastics:** PA, PP, PVC, PE, ...

03



A detailed cross-section diagram of a cable. The central core consists of multiple white, cylindrical conductors. Surrounding this core is a dark, textured layer. The diagram is annotated with three labels: '04' points to the central conductors, '05' points to the dark textured layer, and '06' points to the outermost dark layer.

#### ● 04 04. Bandings

- Films: PTFE, polyester, laminated aluminum, copper and polyimide (Kapton®), special materials
- Tapes: glass fiber, mica, nonwovens

#### 05 05. Shield Materials

Braidings and windings in copper bare, tin-plated, silver-plated, nickel-plated and special materials

#### 06

#### 06. Armoring

Braidings made of galvanized steel wire or stainless steel wire plus polyaramid and polyester

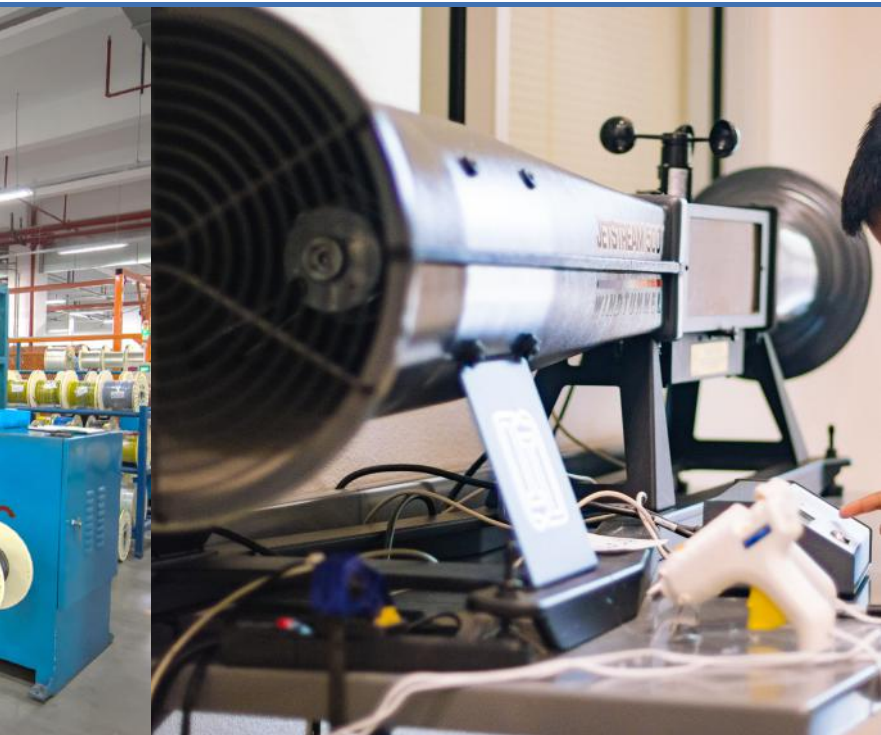
# CASMOLAB CRAFTING RESILIENCE

A cable's quality is only as robust as the rigorous testing it undergoes before its deployment. At Casmo cable, we house a team of brilliant minds, continuously seeking intelligent solutions to multifaceted challenges faced by our high-temperature specialty cables. Be it enduring millions of cycles, extreme mechanical and chemical loads, or navigating compact hybrid solutions, we rise to meet each unique circumstance.

To guarantee flawless performance, our cables are subject to stringent testing at our state-of-the-art facilities. We proudly call it Casmolab. Here, we put our cables through a spectrum of trials, pushing them to their limits. We expose them to extreme physical stress, replicate their lifecycle in accelerated aging chambers, and test their resistance to high voltage and temperature fluctuations.







**Our cable laboratory is dedicated to continuous innovation and improvement, in order to meet the ever-changing market demands and customer needs. We strive to provide customized products tailored to our customers' requirements.**



Casmo Laboratory:  
Professional  
Cable  
Manufacturing  
Equipmen



Casmo  
Laboratory  
Presents  
Specialized  
Custom Cables.

Panoramic  
View of  
Casmo Lab

**Hazardous Substances Compliance  
Testing**

**Cable Noise Profile Evaluation**

**Design and Manufacturing Plan  
Visualization**

**Dynamic Condition Endurance Testing**

**Cable Strength and Flexibility Testing**

**Cable Sheathing Quality Testing**

**Heat Flow Properties Testing**

**Microscopic Cable  
Structure Analysis**

**Flame and High  
Temperature Resistance  
Testing**

**Long-term Durability  
Testing**

**Maximum Tensile  
Strength and Strain  
Capacity Testing**

**Environmental  
Condition Performance  
Testing**

**Cable Robustness  
Testing under Drastic  
Environmental  
Conditions**

**Extreme Heat Resistance  
Testing**

**High Voltage Resistance  
Testing**

**High Current and  
Temperature Rise  
Performance Testing**

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**Peel Tester**

Measure adhesion force between insulation and  
conductor of cables



**Tensile Tester**

Determine tensile strength  
and breaking point of cable  
materials



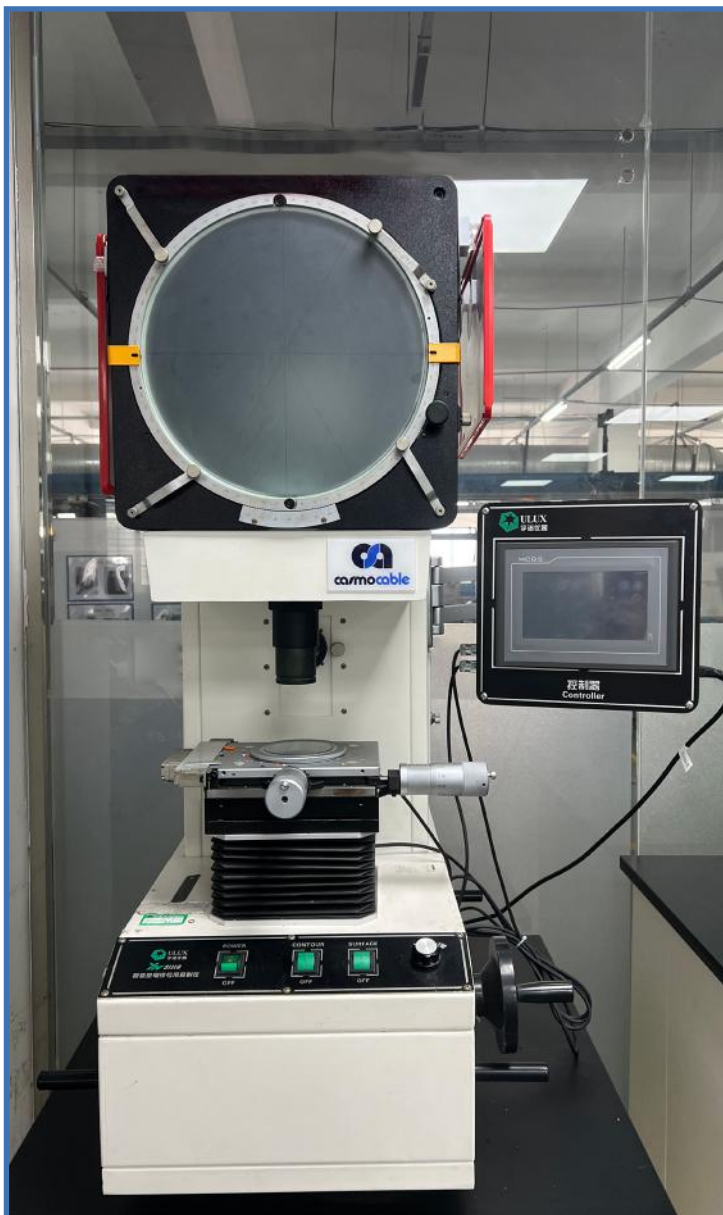
### Tektronix Oscilloscope

Measure and display changes in electrical signals

## ENSURING EXCELLENCE & EQUIPMENT DISPLAYS

Each piece of our testing equipment, from RoHS detectors to Tektronix oscilloscopes, contributes to our comprehensive examination of cable quality and durability. We ensure that our cables comply with both national and international standards, and our test results are meticulously documented and verified.

In essence, Casmo cable goes beyond producing cables - we craft resilience and reliability, ensuring that our products withstand the test of time and the most extreme conditions. Experience our commitment to quality, as we channel our expertise to power your extremities.



### Melt Flow Index Tester

Assess cable material melt performance



# EXAMPLES OF CASMO SOLUTIONS

## Pushing Boundaries: Delivering Unmatched Cable Solutions in Extreme Environments

Powering the oil and gas sector, our client in Canada has carved a niche for themselves as a Leader in real-time downhole pressure and temperature monitoring solutions. However, their unique operational environment, characterized by drilling platforms exposed to extreme temperatures, high humidity, salt spray, and chemical corrosion, necessitated cables of superior resilience and durability.

Addressing these robust requirements, Casmo cable devised a remarkable solution. Our cables, unparalleled in their tensile and

torsional strength, were capable of withstanding intense mechanical stresses typical of the industry. They offered exceptional high-temperature functionality, a critical feature for operations in deep or geothermal wells. Furthermore, these cables possessed robust electrical properties and superior explosion resistance, a must-have for the high voltage equipment and potentially explosive gases found on drilling platforms.

The crowning achievement was our delivery of a cable with an extraordinary continuous length exceeding 6000 meters (or nearly 19,000 feet), capable of withstanding temperatures up to 260 C. This tailor-made solution, built to withstand a myriad of extreme conditions, ensured our client's products remain the industry leaders.



Large  
Ocean  
Freighters

Natural Gas Energy



Offshore Oil Extraction



Powering the wind energy sector, our Dutch client, a distinguished leader in the industry, required specialized cables capable of withstanding an array of demanding conditions. This necessitated resilience to extreme environmental stressors such as high humidity, salt spray, UV radiation, and harsh temperatures, all inherent in offshore and mountaintop wind farm installations.

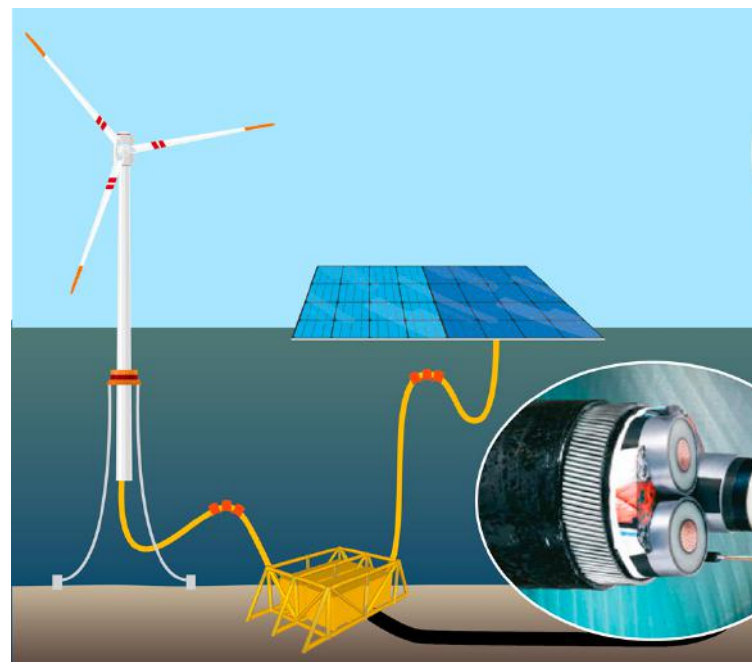
Further, the operational nature of wind turbines called for cables offering exceptional flexibility and twist resistance, able to endure long-term physical stress, and maintain stable performance under generated heat.



## Redefining Robustness: Empowering Wind Energy with Unrivalled Cable Solutions

Responding to this call, Casmo cable delivered a suite of cable solutions employing Silicone, PTFE, and Polyester. Our cables offered unprecedented adaptability, temperature resistance, and durability under mechanical stress, thereby minimizing maintenance and repair throughout a wind turbine's lifespan. This embodiment of technical expertise and commitment to unique solutions sets us apart in the cable manufacturing landscape.

### Specialized Custom Cables Provided for the Netherland Wind Energy Industry





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