

# lynx<sup>eo</sup>

Wired to electrify industry



## ENERGYFLEX<sup>®</sup>

# PERFORMANCE THAT LASTS. INVESTMENT THAT PAYS OFF.

Made in France with our proprietary rubber technology, ENERGYFLEX delivers over 30 years of proven reliability in the most extreme climates, keeping your solar investment safe and profitable.



[www.lynxeogroup.com](http://www.lynxeogroup.com)

# THE SMART CHOICE FOR EVERY PV INSTALLATION – ANY SIZE. ANY SET UP.

The ENERGYFLEX® range offers high-performance cables tailored to the requirements and challenges of every ground-mounted, rooftop, floating or offshore solar installation. EPCs, installers and project developers trust ENERGYFLEX® for its durable, reliable performance in the most extreme outdoor conditions. Built to last and make solar energy even more sustainable.



## ENERGYFLEX® PV H1Z2Z2-K Cable 1.5 kV DC

The all-terrain solar cable for safety, reliability and long-term performance in ground-mounted and rooftop installations from Agri-PV systems and industrial warehouses to urban high-rise and office buildings to schools and hospitals.

- Outstanding outdoor durability and resistance to UV, ozone and extreme temperatures (-40°C to +120°C)
- AD7-compliant, ensuring water tightness for 14 days at 85°C under 3.6 kV
- CPR-Dca fire safety rating: halogen-free and low-smoke
- Flexible crosslinked rubber design with superb crush resistance
- Easy to strip and connect for fast and safe installation

## ENERGYFLEX® B2ca & Cca

ENERGYFLEX® B2ca and Cca cables are designed to meet stringent CPR fire safety requirements for photovoltaic rooftop and building-integrated installations.

ENERGYFLEX® B2ca offers the highest level of fire performance within this range, making it suitable for the most demanding environments such as public-access buildings, high-occupancy facilities and critical infrastructure where maximum fire safety is required.

ENERGYFLEX® Cca provides enhanced fire safety for standard residential, commercial and industrial rooftop applications, offering a balanced combination of safety, performance and cost efficiency.

- CPR-B2ca or CPR-Cca fire performance classification
- Limited flame propagation
- Halogen-free design
- Low acidity of smoke
- Low smoke emission

## ENERGYFLEX® WATER RESISTANT

The cable of choice for installations where water and humidity are a risk: offshore and coastal PV installations, Agri-PV systems with nearby irrigation, tropical and subtropical climates, water treatment plants and snowy or icy locations with freeze-thaw cycles.

- TÜV 2 PfG 2750/09.20 certification
- Tested for full immersion of water

## ENERGYFLEX® BE FAST

Time is money, and the ENERGYFLEX® BE-FAST option cuts installation time by at least 50%. Delivered in twisted pairs, featuring pre-stripped conductors that can be easily separated without tools, Be-Fast ensures quick polarity identification and safer, faster installation at every step, accelerating the transition to clean energy and maximizing your ROI.

- **Fewer on-site cable** pulling operations
- **Lower labor costs** and ability to handle more string connection in less time
- **Tool-free wire separation** - no knives or risk of damage
- **Safer +/- pole identification** with a UV-resistant red stripe no knives or risk of damage

Install  
**40 to 60%**  
faster

ENERGYFLEX®  
**PV**

ENERGYFLEX®  
**WR**

ENERGYFLEX®  
**B2ca**

Available with BE FAST

# Partner with Lynxéo to secure long-term value.

Photovoltaic solar energy is a key driver in the global energy transition, offering a practical solution with long-term cost benefits. **Worldwide, solar is forecast to contribute 80% of new energy capacity by 2030**, with production of 17,577 TWh compared to around 10,000 TWh today. The European Union has set ambitious climate goals, aiming to generate at least 42.5% of its energy from renewables by 2030 with solar playing a central role.

As demand for solar energy grows, more and **more photovoltaic installations are being deployed in increasingly diverse and harsh environments** from arid deserts and remote mountain regions to coastal areas and cold northern climates, exposing them to extreme conditions. For businesses investing in solar, durability is no longer optional: it is essential for long-term performance and return on investment.

The PV cable is the lifeline of any photovoltaic system and must be ultra-reliable even in the most extreme conditions. If a cable fails, the power flow is interrupted, meaning downtime and lost revenues.

**ENERGYFLEX® cables are designed to conquer these challenging environments, in all types of ground-based, rooftop or floating PV installations, protecting your investment and keeping the transition to zero-carbon energy up and running.**



ENERGYFLEX® cables are  
made in France.

# THE RIGHT PV CABLE FOR EVERY INSTALLATION



## Farms and rural areas

mean an abundance of rodents and pests chewing on cables, the risk of mechanical damage from machinery or tools, and exposure to fertilizers or chemicals. This can lead to crushed or cut cables, damaged insulation, and chemical degradation of the sheath.



## Desert areas

expose your PV cables to extreme heat during the day (50°C+), with large temperature variations between day and night. UV radiation from constant sun exposure and sand abrasion from windblown particles subject your cables to the risk of cracked insulation, UV degradation, and mechanical wear.



## In mountain or high-altitude regions,

your PV cables face intense UV radiation due to altitude, freezing temperatures, snow, ice and heavy mechanical stress from snow load or shifting terrain. This exposes the cables to brittleness from cold, cracked insulation and water penetration from melting snow.



## Coastal installations,

such as offshore platforms and seaside rooftops, stress your PV cables with high humidity and moisture, the risk of salt corrosion and constant exposure to wind. These can lead to corrosion and degradation at cable ends or connectors, water absorption, and breakdown of the insulation.



## Urban and industrial rooftops

are characterized by heat from rooftop surfaces, air pollutants such as chemical or oily residues, and limited ventilation causing temperature buildup. These conditions expose your PV cables to accelerated aging, overheating, and potential fire risks.

### → SOLUTION:

**ENERGYFLEX® PV H1Z2Z2-K Cable 1.5 kV DC** delivers exceptional outdoor durability with proven resistance to UV, extreme temperatures (-40 °C to +120 °C), and chemicals, while offering high flexibility and robust crush resistance for long-lasting performance, especially in Agri-PV systems.

### → SOLUTION:

**ENERGYFLEX® Water Resistant**, with TÜV 2 PfG 2750/09.20 certification to ensure superior performance and durability in wet environments.

### → SOLUTION:

**ENERGYFLEX® B2ca**, offering the world's highest level of fire safety performance.

# INVEST IN THE LONG TERM.

The global shift toward a net-zero economy by 2050 demands more reliable, durable, and efficient systems that can perform for decades without interruption. Your photovoltaic installation is part of that mission and every component matters.

**Choosing ENERGYFLEX® PV cables is much more than just a technical upgrade; it's a strategic investment in the future. ENERGYFLEX® PV cables:**

1

**Reduce lifecycle emissions** thanks to their durability and low maintenance.

2

**Ensure consistent energy output**, helping meet clean energy targets.

3

**Minimize fire and environmental risks**, making solar systems safer and more sustainable.

4

**Comply with the strictest safety and regulatory standards**, reducing your insurance and liability risks.

5

**Lower your Total Cost of Ownership (TCO)**, improving your ROI for the entire PV system.

By investing up front, you're aligning your business with the values behind the energy transition: resilience, responsibility, and long-term thinking. It's not just about saving money today it's about building an energy infrastructure that can truly stand the test of time.



## Rubber sheathing: the choice for extreme environments

Rubber-sheathed cables offer **higher flexibility**, better mechanical and chemical protection, **longer life and lower Total Cost of Ownership than XLPO**, especially in the challenging, **high-risk environments** where today's PV installations are located.

This means lower lifetime costs, less downtime, and more reliable energy delivery, key factors for your customer satisfaction, your ROI and the success of the energy transition.



Wired to electrify industry



## ABOUT LYNXEO

**Industry is everywhere. Making our daily lives easier. Fostering progress. Moving the world. Industry plays a key role in shaping a better future.**

We have been serving industry for generations. Today, we are committed to making it more efficient, more reliable and more sustainable. Our cables are essential to the machines developed by global industry champions. They serve as the spinal cord of mission-critical infrastructures, assets and applications. Our clients rely on our advanced technologies and our industrial excellence to bring their machines to life.

In the century since we were founded, we have risen to a leading position in our markets. Now, as a standalone company, we embark on a new journey with even greater agility, more focus and stronger customer intimacy.

For industry leaders, we are ever-evolving partners in an ever-changing world. Together, we build connections beyond cables. From the energy transition to mobility and automation, our teams are tackling the greatest challenges of our times.

Our name is Lynxéo. We have local roots and global reach. Connected to our customers, committed to excellence and progress, we are wired. Wired to electrify the industries that move the world.

Discover



Scan this QR code to access our technical datasheets

## Want to know more?

Please contact us at [industryprojects.business@lynxeogroup.com](mailto:industryprojects.business@lynxeogroup.com)

[www.lynxeogroup.com](http://www.lynxeogroup.com)