

# Solutions in photovoltaics



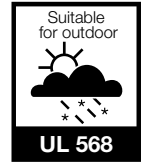
Research as standard



[www.unex.net](http://www.unex.net)

# Insulating solutions in photovoltaic facilities

The International Standard IEC 60364-712 describes the recommended requirements for photovoltaic installations, which usually have specific constraints: Operating power which can be higher than 700V DC; no RCD's providing electrical protection between PV panels and inverters; maintenance without switching off the power; climatology (rain and humidity, corrosion, UVs, wind, extreme temperatures, etc).



To meet the requirements of cable conduction and protection in the different areas of photovoltaic facilities, Unex offers a wide range of possibilities providing:

- **Electrical safety:**
  - **Insulating material. High dielectric strength.**
  - **Earthing not required.**
  - **Avoids leakage currents, hot spots and electrical arcs.**
- **Mechanical resistance. Sturdy design, high impact resistance even at low temperatures.**
- **Resistance to corrosion.**
- **Over 40 years experience in outdoor installations.**
- **Protection for the cables.**
- **Quick and easy mounting.**
- **No maintenance.**

## Solar rooftops with tilted panels



Logistic centre, Spain



Clinic, Germany

## Solar rooftops with horizontal panels



Industrial premises, Spain



Logistic centre, Germany



School, Germany

## Amorphous silicon panels



Shopping centre, Spain

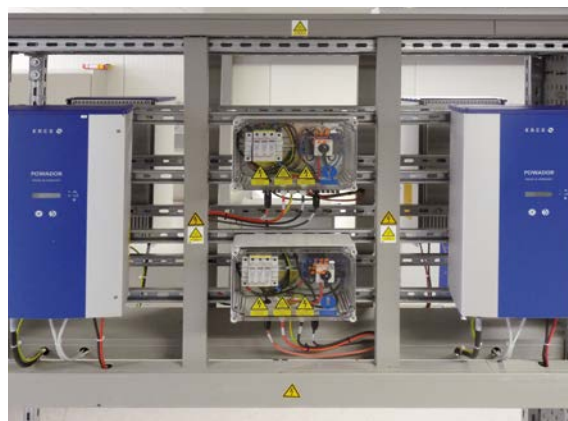


Shopping centre, France

## Inverters and technical rooms



One-family house, Spain



Agricultural and livestock hangar, France



Logistic centre, Germany



Residential self-consumption, Portugal



R&D pilot installation, Spain

## Solar farms



Single axis tracking arrays, Spain



PV array wiring conductor, Spain



Fixed arrays, Italy



Fixed arrays, Portugal

### Own formulated raw materials

With enhanced technical characteristics and our own naming system.

**U23X**

**U41X**

**U43X**

### Solutions adapted to weathering and extreme climatology

Cable conducting elements may reach a higher temperature than the surrounding area due to close heat sources and to the effects of the sun and reflection. Unex solutions cover a temperature range from -50°C to +90°C (-58°F to +194°F) in outdoor applications.

For further information, please contact us: [technical.assistance@unex.net](mailto:technical.assistance@unex.net).

# Certified systems

The quality of Unex solutions is guaranteed by the strict accomplishment of product and application standards, as well as by obtaining Quality marks and approvals.

See updated information on [www.unex.net](http://www.unex.net)

## Insulating cable tray **66** in **U23X**



## Insulating cable tray **66** in **U41X U43X**



## Slotted trunking **77** in **U23X**



## Slotted trunking **88** in **U43X**



## Trunking **73** in **U23X** White RAL 9010



## Trunking **73** in **U23X** Light grey RAL 7035



## Trunking **73** in **U41X U43X** White RAL 9010



## Cable ties **22** in **U61X**



## Cable ties **22** HD in **U71X**



# Unex tools for specification

Unexproject: your tool for configuration and dimensioning.

[www.unex.net](http://www.unex.net)



Available through Data Portal

Complete stock and reliable delivery through our world-wide distribution network



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Unex Products - Australia

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