

# Cable protection for the entire life-time of a solar plant

Solar modules are exposed to any kind of weather conditions and must endure 25 to 40 years. In order to secure a proper flow of current throughout the entire life-time of the installation, high durability of the cabling is equally essential. With PMA's cable protection systems, you can guarantee to your customers a safe and secure installation of their solar plants.

Our products meet the highest quality standards throughout the entire range, from basic to high-end.

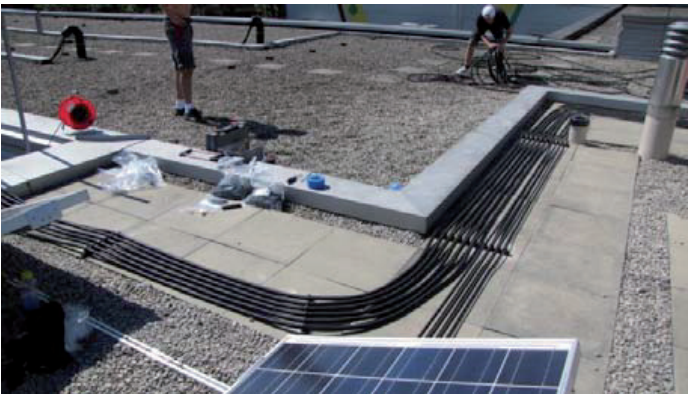
In particular, they are characterised by:



- *Resistance against high and low temperatures, atmospheric exposure, UV-rays, chemicals*
- *Optimal fire safety performance regarding flammability, smoke density and smoke toxicity*
- *High system pull-out strength*
- *Good impact resistance*
- *Excellent ingress protection up to IP68 and IP69K*
- *Extremely long life-time*

Take advantage of more than 30 years of know-how, experience and on-going research. PMA's cable protection systems and solutions are being proved and tested in outdoor applications under the worst climatic conditions since more than 3 decades. In the railway industry for example, where highest durability and long term performance are required, cables are being successfully protected with PMA products.





Last summer, in co-operation with a local specialist solar supplier, we installed a photovoltaic plant on the roof of our premises.

The **241** panels have a power rating of **57 kWp**, producing **52.000 kWh** per year.

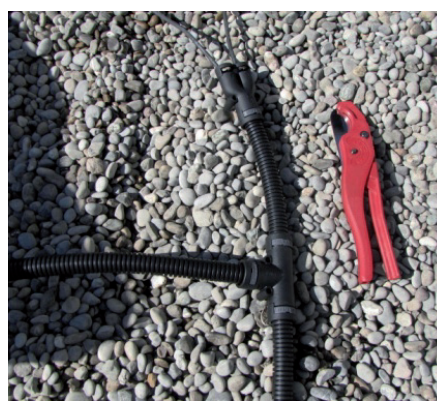


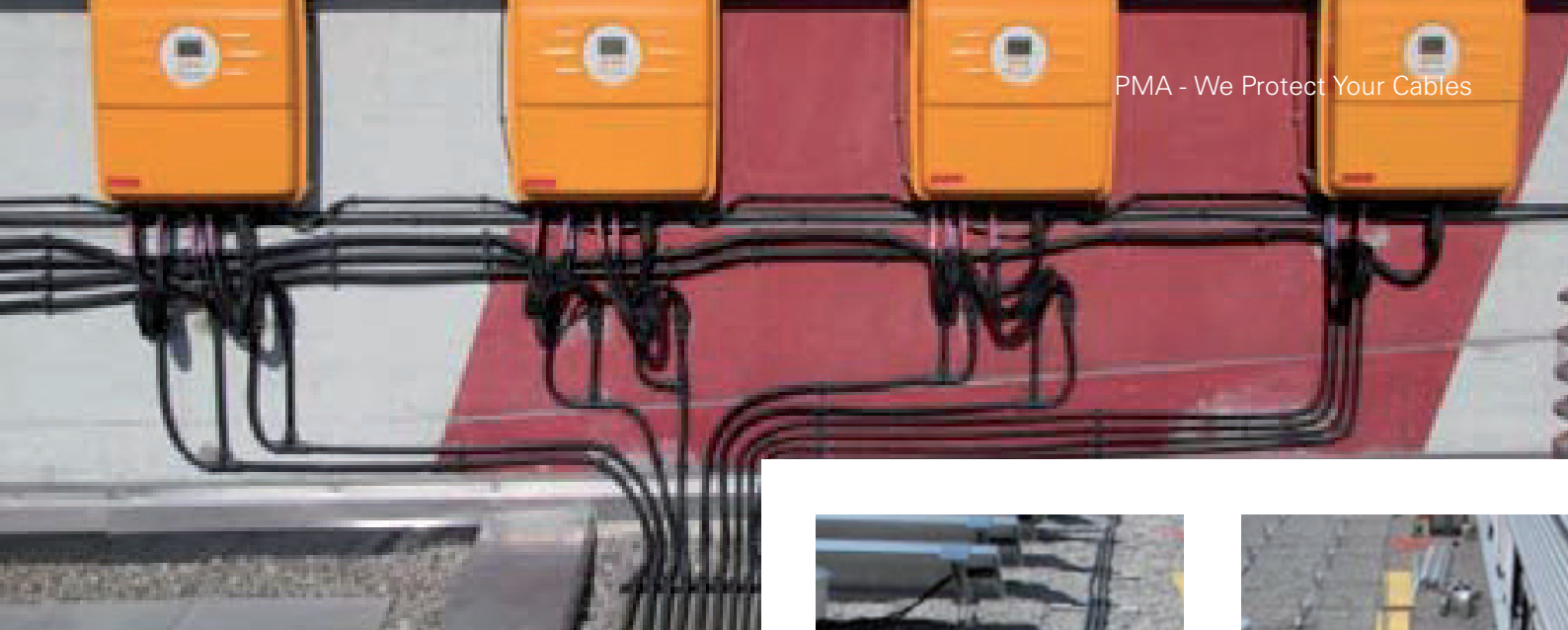
For the cabling protection, we used of course our proved and tested products.

The plant can be visited at any time by contacting our Facility Manager Mr. Bruno Krauer ([bruno.krauer@pma.ch](mailto:bruno.krauer@pma.ch)).



During the installation of this solar facility, we were required by the local building authorities to provide the possibility to disconnect every single panel for better fire safety. Thanks to our cable protection system however, we were able to persuade the building authority to abandon this requirement.





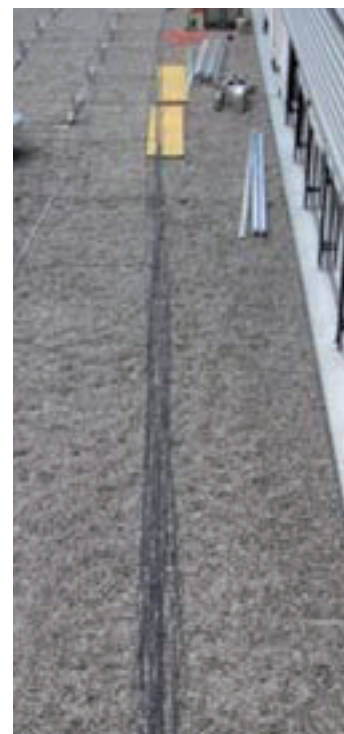
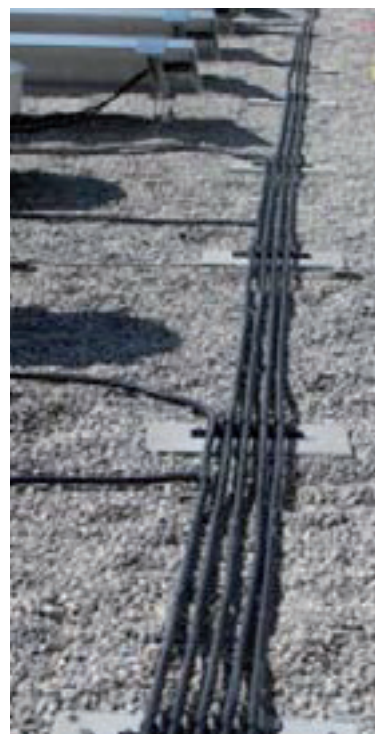
We installed our multi-layer XSOL type conduit having the following characteristics:

### Material

- Outer layer: high grade, specially formulated PA12
- Inner layer: high grade, specially formulated PA6

### Characteristics

- Very long life-time, >25 years
- Very high flexibility
- Very good mechanical strength at low temperatures and low humidity
- Self extinguishing
- Free from halogen and cadmium
- Temperature range: -40°C to +95°C;  
Short term to +150°C



Please visit us at [www.pma.ch](http://www.pma.ch) for further information.

