

# UV-resistance in outdoor areas



**RESISTANT**



Expertise in cable protection for over 75 years



## Long-term experience with outdoor applications for ROHRflex PA12-S and ROHRflex PA12-SD

One of the most important properties of corrugated plastic tubings is their UV resistance, as they are often used outdoors and therefore in direct sunlight. Exposure to UV rays can weaken plastics by changing their molecular structure and causing their colour to fade. If a corrugated plastic tube is not sufficiently UV-resistant, it can become brittle and fragile, which can significantly impair its service life and protective effect. Therefore, sufficient UV resistance is essential for corrugated tube products.

This property is often achieved by adding special UV additives that can protect the material from the harmful effects of UV rays. These additives absorb the UV radiation and convert it into heat, which is then released into the environment. This prevents the UV rays from directly attacking and damaging the material. This protection ensures that the corrugated plastic tube has a longer service life and retains its protective effect.

For our ROHRflex PA12-S and ROHRflex PA12-SD, we use a specially modified PA12 with a reliable UV additive package.

The hoses are tested according to UL1696 (1000 H) and are suitable for outdoor use according to the listing. Our highly flexible ROHRflex PA12-S | SD products meet the highest requirements for flexibility, temperature resistance as well as ozone and UV radiation. As a result, they offer excellent mechanical protection as well as electrical insulation to our customers in the construction, electrical engineering and mobility sectors.

Since 2006, our ROHRflex PA12-S | SD products have been protecting cables and wires in the rail vehicle sector worldwide. Our corrugated tubes have demonstrated a very long service life in outdoor applications and have thus been able to establish themselves with our international customers, for example in the USA, Canada, India or the Ukraine. It is important to bear in mind that even corrugated plastic tubings that have a high UV resistance can be affected by solar radiation over time. It is recommended that regular maintenance and inspection be carried out to ensure that the corrugated tube continues to perform its protective function and is not damaged.

