

SOLIFOS

FIBER OPTIC SYSTEMS



**Deployable Lightning
Protection Solutions**

Deployable Lightning Protection Solutions

Solifos is the owner a patent of a deployable, compact and low volume lightning protection system. It is optimized for rapid deployment in the field. If you operate a field installation, you are responsible for the safety of the personal even in case of a thunderstorm with lightning strikes. Because of the lack of a appropriate solutions, this fact often is ignored. Same time the deposit of material in an outdoor environment includes an inherent danger of damage due to the effect of a lightning strike. Finally Solifos is offering a suitable and very cost-efficient solution for human safety and equipment protection.

Applications

Lightning protection for such as e.g.:

- Military camps and depots
- Outdoor events (sports, concerts, theaters, public viewing, cinema...)

Description

Deployable lightning protection system, rapid deployment, low volume and weight, very cost effective

Methods available

- Lightning catcher against direct strikes
- Equipotential zone against step voltage

Both LEMP-protection methods can be combined to improve the safety dramatically and to prevent damage of equipment.

Installation of the rods and the cables for the catcher

Depending on the size of the area a number of catcher rods have to be placed and connected by a catcher cable between the rods. For a single object such as tent, just two rods and one cable will be sufficient. For a bigger area a system of rods and cables is building a net scanning over the area to catch the possible lightning. The height of the rods and the distance between the rods and the cables is important for an effective protection.

Installation of the grounding and equipotential island

The step voltage is a potentially lethal voltage that is caused by a lightning strike into the ground. The mortality rate is depending on the distance between the lightning strike position and the legs and the distance between the legs of persons (or an animal). The step voltage can be eliminated by a proper, grounding ring around the camp. This is made by a grounding cable forming the ring and a number of grounding poles.

Entry of conductive cables into the protected area

All conductive cables leading from outside into the protected area need to be filtered by surge protection devices using the centralized entry point (ZESP). This includes e.g. power, data and telephone, and radio coaxial cables.

Coordination and dimensioning

All these measures have to be coordinated and connected in a common system. Solifos offers the correct and suitable setup for your installation.

Environmental conditions

Standard operating temperature range:

-20°C ... +49°C

Extended operating temperature range up on request

Advantages of the lightning protection system

ZESP with surge protection devices for various signals

- Easy transportable, low space and low weight
- Simple and rapid deployment, ergonomic handling
- Modular and scalable, adapting to the size of the protected area
- In order to protect personal and devices against overvoltage led via cables into the protected area. Surge protection devices are available for a large variety of signals
- Training is offered on site or in Windisch

Products and services

Large range of different LEMP protection products and systems

- Lightning catching rods
- Lightning catching cables
- Grounding poles
- Accessories for deployment and connection
- ZESP and surge protection devices (SPD)

Services

- Extensive testing of the devices to be protected
- Solution consulting services
- Engineering
- Installation training and recommendations