

Protection of a ski lift by Skilift AG, Fischenthal, Switzerland

The protection of the ski lift facility is absolutely essential. Sometimes, there are even winter thunderstorms.

Lightning bolts, which here often run horizontally, couple into the cables of the lift. At the valley station this energy is then discharged via a coarse protection and a fine protection.

The coarse protection is triggered mechanically. The fine protection consists of two Meteolabor USS-1-S



Success Story: Protection based on our proven USS-1 technology

The ski lift Fischenthal is a pre-alpine facility at the upper end of the Tösstal. The recreational offerings are primarily aimed at the catchment areas Winterthur, Uster and Wetzikon.



Picture 1: Ski lift Fischenthal

The operator (non-profit facility) has made it his goal to operate the lift five to six weeks every year for the region. From Winterthur it only takes 35 minutes to get here, a unique offer.

The ski lift gained a great deal of popularity through the two local Schoch brothers, who received Gold and Silver during the 2002 and 2006 Olympic Games in the discipline "Snowboard Parallel Giant Slalom".

During thunderstorms, which frequently also occur in the winter, lightning energy couples into the cables of the ski lift. At the valley station, this energy is being discharged via a mechanical coarse protection and two USS-1-S fine protectors.

The two USS-1-S here decouple the lightning energy from both hauling cables. The metal plate inside the box is grounded.



Picture 2: USS-1-S in use

According to Mr. Gemperle, from the Oberholzer + Gemperle GmbH, the protection against lightning is a necessary requirement to guarantee the operation of the facility. The two USS-1-S do an outstanding job in protecting the facility from lightning energy. The local topography entails that the lightning bolts sometimes even run horizontally.

Meteolabor USS-1 Standard products:
<http://www.meteolabor.ch/emc-emp-produkte/emp-schutz-uss-1-serie/>

Ski lift Fischenthal:
<http://www.skilift-fischenthal.ch/>