



Kabelwerk

EUPEN AG
cable



The Tschuggen Express

Eupen delivers WLAN optimised radiating cable to the Tschuggen Grand Hotel mountain railway

Customer Schweizer Elektronik AG

Situation The Tschuggen Express, the mountain railway of the Tschuggen Grand Hotel in Arosa, Switzerland, went into operation for the hotel's guests in 2009. The driverless two cabins of the Tschuggen Express take 12 hotel guests directly to the skiing and hiking area. The train climbs 150 m in altitude over a stretch of 528 m of track at a maximum gradient of 52%. The Tschuggen Express covers the steep section of track with a speed of 4 m/s, allowing the journey to be completed in less than two and a half minutes.

Challenges The driverless nature of the Train required a modern, highly reliable Communications System, that not only had to provide a contactless link that guarantees reliable operation under severe weather conditions to the moving Train, but also had to be installed in a very challenging mountainous area under difficult conditions.

Solution

To provide a highly reliable, contactless and high capacity Communications link to the moving Train, that can withstand such severe conditions and provide the required large data throughput, an EUPEN Radiating Cable, optimised for the 2.4GHz WLAN frequency band, was chosen. This RF-link provides for all the communication needs, including all safety critical operating parameters, as well as Voice communications in case of Emergency.

The logistics surrounding the installation of the Eupen Radiating Cable at this very challenging location, combined with the need for specialist handling equipment, led Schweizer Electronic AG to undertake these tasks with the aid of their own Technicians.

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