



Kabelwerk

EUPEN AG

cable



Jungfraubahn

Eupen delivers radiating cables to the “Top of Europe”

Customer

Jungfraubahn Holding AG

Situation

The Jungfraubahn is a cogwheel train that takes visitors from the Kleine Scheidegg mountain through the Eiger and Mönch up to the Jungfrauoch. It traverses a distance of about **9 kilometers** and an **elevation of almost 1400 meters**. Of the distance travelled, a little over 7 kilometers are through tunnels.



After a 16-year construction period, on August 1, 1912, the Jungfraubahn began operation. At the same time the railway station atop the Jungfrauoch (which is at 3454 meters above sea level to this day Europe’s highest railway station) became operational.

The train ride is absolutely spectacular. For safety reasons a large part of the journey takes place within the rocks, but the windows opening up views of the Eiger North Face and the Sea of Ice offer an incomparable panorama. After arriving on the Jungfrauoch one may feel a bit out of breath, but absolutely on “Top of Europe”.

In 2012, the year that the Jungfraubahn celebrated its Centenary Jubilee, a major revision of the Radio Communication System was carried out, which included the replacement of the Radiating Cables in the Avalanche Gallery and the Tunnel.

Challenges

Apart from the obvious challenge to install a complete new Radiating Cable in a narrow Tunnel without impeding the operation of the Railway, the rocky geometry of the unlined tunnel, the steep gradient and the tight bends provided some serious challenges to the installing Company, Waasmer & Züricher.



Solution

Eupen Radiating Cables with a special, high tension Stainless Steel integrated Messenger wire, so called Neoport-cables, were the clear choice for this difficult installation location.

Custom made Fixings allowed the controlled routing of the Radiating Cables to overcome the challenges posed by the very limited clearances.

Eupen supplied 9km **F-RMC 114-B-HLFR Radiating Cable** to this Project.

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