

CASE STUDY

HIGHEST SAFETY ON THE WEST BYPASS AT ZURICH

Datwyler is one of the most competent contacts worldwide for the electrical infrastructure in tunnels. Also the West Bypass at Zurich which had been inaugurated in spring 2009 relies on the proven cabling solutions from Datwyler for the perfect operation of different electro-mechanical systems.

Several hundreds of kilometers of safety cable as well as system components made by Datwyler had been installed in the five motorway tunnels of a total length of more than 13 kilometers. The safety cables with an extended insulation integrity and functional integrity (FE 180/E30-E60) contribute among others to the reliable working of the aeration, ventilation, signaling and different illuminations. These systems will still be energised for a predetermined period of time even in case of a fire.

Fibre optic cable from Dätwyler had been mainly used in the fields of telecommunication and sensor technology.

Pre-tested system solutions

The West Bypass at Zurich is a new built motorway of Switzerland's restructured Federal Office for Streets ASTRA and of the Canton of Zurich. The route which had recently been inaugurated closes the gaps which existed up to 2009 in the west of Zurich by means of many twin-tube tunnels and bridges.

Since 2007, Datwyler has delivered copper and fibre optic cable as well as the corresponding components to several working committees and manufacturers of circuits in the frame of the new construction. The pre-tested system solutions from Datwyler provide for approvals according to the applicable regulations. They fulfil the strictest European guidelines and guarantee high system availability – also and in particular in case of a fire.

Reliable cabling infrastructure

For high-risk buildings like tunnels the reliability and a perfect function of the infrastructure facilities and installations is most important. Corresponding safety measures are of utmost relevance. Since failures and service interruptions might have severe effects, a reliable cabling infrastructure is playing a decisive role in tunnel security concepts.



Datwyler offers high-capacity safety cabling solutions for the electrical infrastructure in tunnels which guarantee a reliable energy and data transfer, even in case of a fire. The portfolio of Datwyler who is offering one of the largest ranges of safety cabling systems worldwide also includes customer support in preliminary design studies, engineering services, advice, training and support during the planning and implementation periods, the integration of active and passive system components, as well as project-specific and customised assembly and logistics services.

(May 2009)