

CASE STUDY

DIGITAL MOBILITY IN A HIGH-RISE BUILDING

Schindler is equipping the Omniturm in Frankfurt with high-performance lifts, a transit management system and a digital mobility solution. Tailor-made flatform cables from Datwyler play an important role in reliable data communication as well as safety throughout the elevator system.

The Schindler Group, established in 1874, is one of the world's leading suppliers of elevators, escalators and associated services. Every day Schindler's mobility solutions move billions of people throughout the world. This success is backed by more than 60,000 employees in over 100 countries.

The 190 metre high Omniturm currently being constructed in the Frankfurt banking district is another high-rise building which will be equipped with high-performance elevators by Schindler. Project developer Tishman Speyer will complete the 45-storey building by 2019. It will be the first genuine mixed-use high-rise building in Germany to simultaneously house office space, 147 apartments and public areas. This places high demands on vertical access.

Traffic management and access control

Schindler's remit includes not only the lifts, but also a transit management system by the name of "Port". What is more, the highrise building will be the first commercial building in Germany to be equipped with the Schindler "myPort" solution: When authorised building users identify themselves at the entrance via smartphone or chip card they are told the best way through the building to the floor they want.

Residents can, for example, use a stationary "Port" terminal in the apartment or the "myPort" app on their smartphone to communicate by video chat with visitors at the entrance. By simply clicking on the invitation button they open the door for the guest and at the same time provide the lift to take the visitor automatically to the right floor.



The visitor management of office tenants will also take place via this app. Via instant messaging visitors are given a temporary access code which they can use at the entrance to the underground car part and for the route to the floor they want.

The intelligent linking of traffic management and access control is extremely efficient and meets the requirements of the individual user groups in the building.

Secure data communication

The great amounts of data thereby created have to be transmitted securely and without interruption. Here Datwyler plays an important role in the high-rise and mid-rise sector with its tailor-made flatform cables.

The travelling cables manufactured for Schindler, which combine power and data cables, meet both the company's most stringent requirements on precision as well as the requisite load profile resulting from mechanical stress.

Datwyler and Schindler are traditional Swiss companies which have formed an enduring partnership over the past 40 years. Together the companies are meeting the challenges of lift industry digitization, the "Internet of Elevators and Escalators".

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