CASE STUDY

SECURE COMMUNICATION IN THE SHANGHAI TOWER

Datwyler fibre optic and copper systems were installed in the city's tallest building.

At 632 metres in height the Shanghai Tower is the city's tallest building, the second tallest building in China and the fourth tallest in the world. Together with two other high-rise buildings, including the Shanghai World Financial Center at just under 500 metres, the Tower forms an impressive ensemble in Pudong, Shanghai's financial district.

It has over 430,000 square metres of usable floor space. The main building alone has 118 floors. In addition, there are several basements and an underground garage with 2000 parking spaces.

Fibre optic system

Datwyler supplied a fibre optic cabling system with flame-retardant, low-smoke halogen-free indoor cables (FRNC/LS0H) for the fire alarm system in the Shanghai Tower.

The fibre optic system comprises ten kilometres of 4-fibre single-mode indoor cable (OS2), eight kilometres of 6-fibre multimode indoor cable and one kilometre of 6-fibre multimode outdoor cable (OM3).

These were spliced to about 900 ST and LC pigtails and connected to 80 fibre-optic patch panels. There were approximately 200 ST and LC patch cords as well.

Copper data cables

Datwyler also supplied over 30 kilometres of copper data cable to interconnect the multi-storey car park and satellite systems.

In January, the Sino-Swiss Chamber of Commerce organised a guided tour for Swiss companies based in Shanghai. They were given a comprehensive insight into the energy efficiency, environmental protection and safety measures implemented in the skyscrapers.

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