

## CASE STUDY

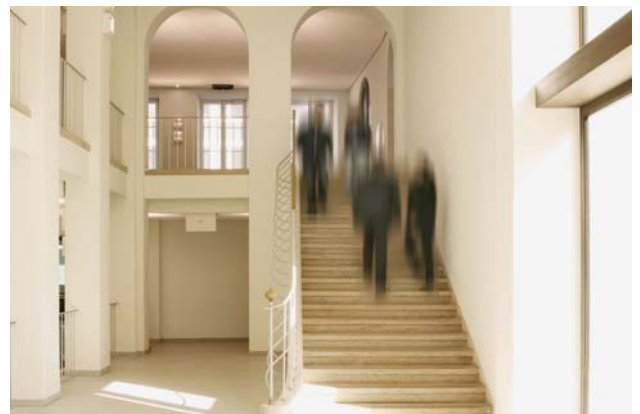
# CABLING SOLUTIONS FOR THE MUNICH ARCHIEPISCOPAL ORDINARIATE

The Archdiocese of Munich and Freising has brought its administration together in the centre of Munich. Datwyler cabling systems are used in the new central premises and three data centres of Munich's Archiepiscopal Ordinate.

Until now the offices of the Munich Archiepiscopal Ordinate were spread over several buildings throughout Munich, some of them a long distance apart. This year these will be consolidated in three virtually neighbouring buildings in the Maxburgstraße, Rochusstraße and Kapellenstraße. The aim of consolidation is to pool activities, create a more efficient and economical administration and foster better cooperation.

Today, after renovation, the listed Kapellenstraße building is used as a central office building. It houses workstations for over 400 staff, conference rooms, a canteen, a chapel and a library.

Over the past few years it has been carefully gutted, modernised to ensure energy efficiency and disabled access. The sanitary facilities, electrics, data lines and lifts had to be replaced completely.



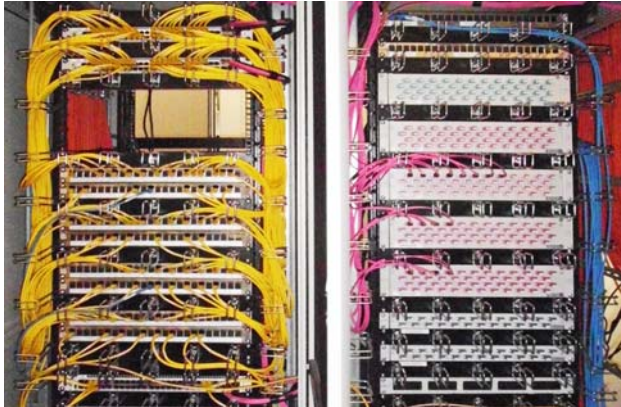
### Convinced by workshop

Those responsible for IT at the Archbishop's office placed stringent demands on the data cabling. The entire network had to provide a transmission rate of 10 gigabits per second. In addition, the copper data cables – conforming to the future Power-over-Ethernet standard – had to be able to transmit up to 150 watts, necessitating high-performance AWG22 cable.

An engineering workshop at the Hallbergmoos site convinced the IT managers that Datwyler had the appropriate solutions for every requirement. At the same time the heat generated in data cables was an important issue in conjunction with the power supply to terminal devices.

### Effective solution

The contract for the installation was placed with Munich company Kuhn Elektro-Technik GmbH. The cabling was



installed in several phases between mid-2013 and early 2016 and approved section by section. It now interconnects the three data centre sites. The structured building cabling in the new office building provides at least two high-performance RJ45 connections at each of over 400 workstations.

A total of around 130 kilometres of Category 7<sub>A</sub> type CU 7702 4P data cable and approximately 3700 RJ45 KS-T Plus 1/8 Cat.6<sub>A</sub> modules were installed. There are also numerous data outlets as well as patch panels and management panels.

The fibre optic cabling comprises over 230 kilometres of FO Universal cable, some of which Datwyler delivered preassembled, and around 50 splice boxes which were already equipped ex works with OM3 and OM4 LCD couplers.

The Archbishop's office installed individual CAT TV panels from Datwyler Cabling Solutions to allow the transmission of radio and television signals over the data cabling in the building.

(July 2016)