

CASE STUDY

UNFALLKASSE NRW, DÜSSELDORF: BECAUSE IT HAS TO DO WITH SAFETY

Unfallkasse North Rhine-Westphalia is using Datwyler fail-safe cabling solutions in their new headquarters. The company which installed them was Frings Elektro-Installationstechnik.



Die Unfallkasse Nordrhein-Westfalen (UK NRW), the North Rhine-Westphalia Accident Compensation Fund, is a public sector accident insurer for the statutory accident insurance of around 6.6 million policy holders. At the end of 2019 the head office in Düsseldorf moved to a new building in the district of Oberbilk. This brought together under one roof the 500 or so people employed in the city.

The modern block was built by Freundlieb Bauunternehmung on behalf of Kölbl Kruse GmbH. The new building is equipped with a structured building cabling system among other things. This gives UK NRW, the tenant, a high-performance data network – with fibre optic cables for the backbone cabling and copper cables on all floors.

Between January and August 2019 Frings Elektro-Installationstechnik GmbH, a longstanding certified Datwyler partner, installed the data network in several stages.

The system solution, which came entirely from Datwyler, passed acceptance testing in August and started operation in October, just in time for the move.

Fail-safe connectivity

In the 130-metre long new building there are two data centres linked by fibre optic and copper cables. For fire safety reasons a protective wall divides the ten-storey building into two halves.

This division is reflected in the structure of the data network: On each floor these two sections are connected to two independent server cabinets, allowing the stand-alone operation of each section. In addition there are redundant links to all the floor distributors – via a 12-fibre “FO Universal” cable and the “CU 7702 DX”, a copper data cable with 100 paired wires.

On the floors the 350 or so office units and the seminar rooms are connected via copper data cables. Most of the RJ45 connections for the employees’ devices are housed in floor boxes.

Frings, the main supplier, installed an end-to-end high-performance system solution from Datwyler, the cables and components of which are perfectly matched.





"The solution which we proposed to the general contractor gave the end customer the desired high quality, but at a better price," explained Marijo Bellendorf, Project Leader at Frings. "When the planning expert saw 'Datwyler', he cleared it immediately."

A solution for every application

In addition to the products mentioned, the complete solution also features Category 6_A "KS-T Plus" modules, KS

panels, type "OV-S" telescopic FO patch panels, network cabinets, wall-mounted housings and telephone panels.

The accident compensation fund has incorporated numerous services and applications into this cabling: in addition to office applications it includes video technology, access control, an alarm system and intercom system as well as measurement, control and regulation technology.

A Datwyler system solution was also used for preventative fire safety. This consists of various types and versions of high voltage and low voltage cable with E30 and E90 enhanced functional integrity, single and multiple-cable clamps, strap clamps, plugs and "Hercules" distribution boxes.

"As long-standing partners of Datwyler we don't need any support," says Bellendorf. "The main thing is that deliveries are on time. In this project it worked out perfectly once again."

(May 2020)