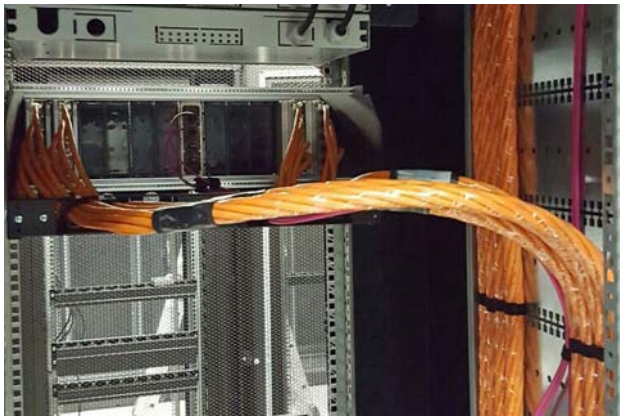


CASE STUDY

KÜS, LOSHEIM: DATA CENTRE PLANNING WITH EXPERTISE

At short notice KÜS, the motor vehicle monitoring organisation, found in Datwyler an expert planning partner for a flexible, future-proof cabling infrastructure for their new data centre.



The motor vehicle monitoring organization of freelance automotive experts, KÜS, was established in 1980. In 1991 it went into official vehicle inspection as a test organisation. KÜS is now one of the major national vehicle monitoring organisations in Germany. After opening various branches KÜS developed into a complete service provider for road users and automotive businesses.

Since late 2016 KÜS DATA GmbH has been operating a new high-performance and high-security data centre. This enables the group to stay abreast of rapidly increasing digitisation, especially in the automotive world.

Standard-compliant design

Planning for the greenfield data centre began in autumn 2015. At the same time the organisation faced the challenge of developing its own cabling concept. After the basic construction phase this would facilitate fast and flexible installation for tenant outfitting – while current operations continued. The KÜS DATA computer centre was, moreover, the first

of its kind to be designed to comply in full with the new European Data Centre Standard EN 50600. So even the cabling had to meet the auditors' stringent requirements.

In order to guarantee high data centre standards, KÜS brought Datwyler on board as an expert partner to further expand the existing infrastructure. Among other things this included a high-density wire manager (HDWD manager) for the network and server cabinets, to ensure an unrestricted flow of cool air over the entire cabinet height and the reliability of data transmission.

Fast, space-saving installation

The cabling solution installed in the KÜS DATA computer centre comprises a modular "Datwyler Data Centre Solution" which includes not only all the fibre optic cabling but the copper cabling as well.

All the cable links were implemented with factory preassembled and measured multiple cables (trunks).





Datwyler's new 45 degree-angled type "KS-TA" RJ45 modules were used in the racks. In the fibre optic patch panels all the outgoing lines are also angled to left and right, allowing neat space-saving cable management at the front.

In this installation Datwyler worked closely with solution partner Media Secure, the staff of which were given a training course beforehand. 2,100 links were implemented and 90 racks connected in the first expansion stage. 50 fibre optic and 75 copper trunks were only some of the items installed by Media Secure.

During installation some unexpected problems were solved at short notice. These included not only a concept for cable rack management, but also involved replanning the cables already laid so as to fine tune the installation to the customer's requirements.

Thanks to these last-minute solutions it was possible to complete installation within 14 days, and the first extension stage of the data centre came into operation in September 2016.

Flexible expansion

The cabling concept implemented at KÜS allows flexible expansion for tenant outfitting, and its modularity makes it very future-proof. Since commissioning KÜS has also benefited from ordered structures in the racks and runs, from simple, clearly understandable documentation, low energy costs and the possibility of being able to undertake installations itself.

No wonder, therefore, that KÜS is very satisfied and has decided on Datwyler for the next three expansion stages.

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