



CUSTOMER CASE STORY

Alemannia Aachen. Since 1900, this traditional football club has been playing football with real passion. And since 1928, the Tivoli has been the setting for big victories and painful defeats in the eventful history of the club. Now, Alemannia steps into the future with a new Tivoli - and with a video, audio, and data network ensuring optimum information for the viewers.

**Hightech cables in the stadium:
Reliable communication for exciting
sport events**



Trendsetting cabling concepts, many decades of experience in cable manufacturing, high production capacities as well as a comprehensive distribution, logistics and service network enable Draka Communications to flexibly realise even comprehensive cable deliveries at short notice. One of many examples: The communication network in the new Aachen Tivoli.

New prospects and chances

"The viability of our club is closely connected with the new stadium." Frithjof Kraemer, manager of Alemannia Aachen, clearly explains that the decision to set up a new playground has mainly been made for economic reasons. "Nobody has ever complained about the atmosphere. The lawn is one of the best in professional football. However, we would not have been able to catch up the economic backlog compared to our competitors without a new stadium within the foreseeable future." A stone's throw away from the old Tivoli, a new stadium has now been built in the Aachen Sports Park in Soers, offering an ideal arena for passionate football for nearly 33.000 fans.

The stadium is 26 metres high with the length of its façade amounting to 660 metres. 19.429 seats in 40 rows, standing room for 11.681 people in 80 rows and 1.306 so-called business seats in 30 boxes ensure an optimum sight upon the pitch. 110 media facilities contribute to the games in Aachen not only being a local event but being widely broadcast, mainly via radio and TV. The reliable transmission of pictures and sound also plays an important role within the stadium. Two video walls of 40 m² each and a complex sound system provide optimum information for the viewer.

Innovative concepts and individual solutions

The perfect transmission of pictures and sound can only be achieved with an intelligent video, camera, audio, and data cable network. Scanvest GmbH is responsible for the realisation of this network in the new Aachen Tivoli. The

medium-sized company headquartered in Langenhagen close to Hanover, production facilities in Cologne and sales offices throughout Germany offers comprehensive solutions in the field of real-time communication and reliability with their focus lying on innovative concepts and tailor-made solutions. Inter alia, Scanvest planned and installed approx. 7.3 km audio cables, 15.7 km video cables, 5.2 km camera cables, and 1.9 km data cables.

Fast and flexible

All in all, Scanvest ordered more than 30 kilometres of cables from Draka. "In addition to the quality of Draka products, mainly the fast delivery and the high flexibility have been the deciding factors," says Frank Martin, Key Account Manager and Project Manager from Scanvest. "We needed the cables within 1.5 weeks, and Draka was the only manufacturer being able to reliably deliver such a big quantity of cables in the required quality within the requested period of time.

Analogue and digital

Regarding the audio cabling, Scanvest decided for solutions out of the Profi Sound Flex series of Draka. These cables are able to reliably transmit analogue as well as digital signals. They have been specifically developed for the professional and flexible use for a variety of applications. The cables do not only comply with the European standard EBU but also with the American Standard AES and are compatible to all common connectors. As universal cable, it can be applied in studios as well as in broadcasting vans.



Optimum connection

For the transmission of high-quality pictures, 75 Ω 1.4/6.6 AF video cables fulfilling the HDTV standard have been applied in the new Aachen Tivoli. They offer narrow characteristic impedance tolerances and thus provide perfect conditions for an optimum connection between switcher and mixer as well as between VTR and monitor. Beside the high-quality materials used, the carefully developed cable design and the exact insulation guarantee the high quality of the video cables. Furthermore, they fulfill the regulations of European and international standards.

All-rounder

A further highlight in the Tivoli network is the SMPTE 311M hybrid HDTV camera cable containing single-mode optical fibres as well as auxiliary and signal conductors. It is used for the simultaneous transmission of energy, video, audio, and control signals and is suitable for all new digital camera systems of well-known manufacturers. It is intended to interconnect camera units and base stations.

Furthermore, 2.800 metres of the camera cable Triax 11 1.4/6.6 S have been installed for the simultaneous transmission of energy and multiplex video signals between camera head and control system. They are suitable for studio and outdoor applications.

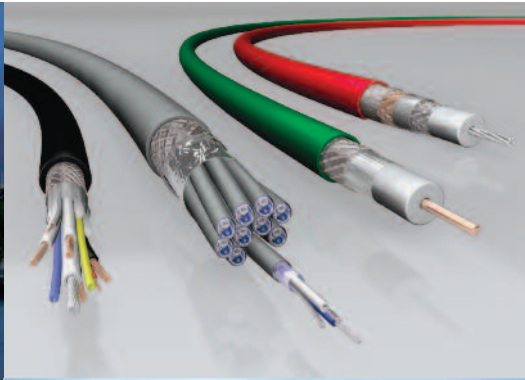
Fit for the future

Data cables of Draka are always in use wherever it is a question of professional and undisturbed data and voice transmission – also in the new Tivoli. When developing the copper and fibre optic cables UC300 and UC^{FIBRE}; speed and transmission reliability were of utmost priority. Data cable solutions of Draka have the physical potential to support structured networking for future requirements.

“In view of the limited time we had to realise the communication network, it had been a big advantage for us to get all the necessary high-quality cables from a single source,” Frank Martin outlines contentedly.

“Draka simply is a good address even when it comes to the networking of totally different applications”.

The communication network passed its first big test during the opening match in the new stadium. In the evening of Monday 17th of August, 2009, Alemannia Aachen had their first compulsory match in the new Tivoli against FC St. Pauli. The communication infrastructure could achieve its first victory: it worked excellently without any interference.



Draka Communications

Cable competence for the global market

Draka Communications - a member of Draka Holding N.V. located in Amsterdam - offers a versatile and reliable range of copper and optical fibre cables for the transmission in the data and telecommunication industry. The long-lasting expertise in cable and fibre business has been the basis for Draka Communications holding a major market position today.

Proven know-how

The wide range of different applications reflects not only the extensive application know-how of Draka, but also its decades of experience and the resulting considerable competence in the field of cables. After all, Draka's roots go back to the year 1815. As a reliable partner of trading, industrial and service companies, Draka offers flexible, trendsetting cabling concepts which provide a high degree of investment security. Not least responsible for that is the development department which works permanently on new solutions for the markets of tomorrow.



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