

R&M NETWORKING SYSTEM FOR FIVE-STAR STADIUM IN UKRAINE

When the European Soccer Championships take place in 2012, the brand new 50000 seat Donbass Arena will be one of the venues where stars will show their skills on the pitch. However, the stadium also boasts one of the largest networking installations ever carried out in Ukraine, with a complete R&M networking system encompassing more than 1700 fiber optic and 6000 copper outlets.

Donbass Arena is located in the Leninsky Komsomol Park in the center of the city of Donetsk in eastern Ukraine. The official opening of the stadium takes place in August 2009, after which the stadium will be the home ground of FC Shakhtar Donetsk and also provide space for concerts and cultural events.

This high-spec stadium is the first stadium in Eastern Europe designed and built in line with the Elite-Class UEFA standards (Five-Star Standard, with a natural grass pitch). Designed by Arup Sport Company and constructed by the Turkish company ENKA, the entire project cost was in the region of USD 400 million.

The striking design of the stadium is based on a visual effect which makes the stadium resemble a flying saucer. The roof of the stadium slopes from north to south matching the landscape and contributing to the natural lighting and airing of the pitch. The interior design accommodates all spectators in a single bowl rather than in four separate stands, and the first row of seats is very close to the pitch offering excellent views of the action.

In order to facilitate modern television facilities as well as spectator information, VIP lounges and business facilities, the integrated data networking system was designed and installed during the construction process.

R&M is already well known and respected for its provision of data networking systems for a number of stadia which were used during the European Soccer Championships in 2008, and the networking solution at Donbass Arena once again demonstrates how the flexibility and reliability of R&M networking products can bring benefits to any kind of networking system.

TECHNOLOGY AT DONBASS ARENA

Donbass Arena is equipped with a fiber optic and shielded Cat. 6 copper network, capable of carrying protocols such as Gigabit Ethernet and 10 Gigabit Ethernet. In total, the networking system encompasses more than 400 km of R&M copper cable and some 60 km of fiber optic cabling.

With 6000 ports to the Cat. 6 copper network and 1700 fiber optic outlets, it is one of the largest data networking systems ever installed in Ukraine. This modern network installation will facilitate all computer systems which perform duties in the running of the stadium, including visitor information systems, security and surveillance, as well as providing networking support for media, business events and VIP lounges.

The networking system is based entirely on R&M cabling equipment, and many R&M innovative technologies have been applied. For instance, though mainly designed for telecommunications environments, the VS Compact connection modules were particularly welcome at Donbass Arena.

VS COMPACT AND IDC

The VS Compact connection modules boast some of the highest density in the marketplace, allowing for more connections to be fitted in less space. At Donbass Arena the high number of connections meant that a potential headache in the cabling process was easily eliminated, without any loss of functionality or reliability.

R&M's use of Insulation Displacement Contact (IDC) technology in its networking plugs allows for easy and quick connection of network elements, without any use of solder or screws and with no need for removal





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The 50 000-seat Donbass Arena in Donetsk resembles a flying saucer.

of insulation. Such connections have low transient resistance and are gas-tight and moisture-protected.

This ensures that the network can function for many years free of corrosion or detrimental influence from air pollution or mechanical vibrations.

STANDARDS

While the functionality and the features of the networking solution at Donbass Arena speak for themselves, it is also worth noting the standards compliance and long warranties which apply.

The R&M networking solution provides not only high throughput and productivity but also follows the

standards in areas such as electromagnetic compatibility (EN50174, ISO11801), local fire safety regulations (of which fire propagation, toxic materials and smoke density are stricter than similar European Union regulations) and information safety (certificates of Security Service of Ukraine and State Service of Information Security Technologies).

In addition to its well-documented product quality benefits, R&M also boasts well-educated and certified system installation partners in all markets. At Donbass Arena the installation partner was DONBASS-INFORMCOMMUNICATIONSERVICE Ltd., a fully certified R&M Freenet installer.

WHY R&M?

- Reliability and the best distribution service
- Clear R&M price and partnership policy
- R&M certification of installers and R&M national certifications according to local requirements in different countries

R&M PRODUCTS USED:

- Cat. 6 STP cable (more than 440 km)
- FO cable (various, more than 60 km)
- VS Compact panels for voice network
- More than 7300 network point terminations
- All patch cords and connection modules



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