

CS 119E

The Middle East's Premier Sporting Arena Opens with Belden

When players take the field at the new 45,000 square-meter Hazza Bin Zayed stadium located in the Emirate of Abu Dhabi, Belden cables ensure state-of-the-art audio and video transmission for its 25,000 spectators.



An architectural marvel and one of the most technologically-advanced sports venues in the Middle East, the new 25,000-seat Hazza Bin Zayed stadium in Al Ain features some of the world's most creative engineering aspects. It is the first stadium to ever embrace a parasol roof to fully shade all fans, and it features an outer shell made up of 600 fabric panels with independently controlled LED lights.

The state-of-the-art design didn't stop at the architecture or the stadium's world-class facilities. To support 85 screens, including an enormous 40 square meter stadium screen, a sophisticated audio system, dedicated media centre, press conference room, outside broadcast units and more than 30 camera locations for television broadcasting, Hazza Bin Zayed relied on the trusted brand in professional broadcast cabling – Belden.

Application Details

Completed in a record time of just 17 months and measuring up to the very highest international standards, the Hazza Bin Zayed Stadium called for state-of-the-art video and audio transmission in compliance with all requirements of Society of Motion Picture and Television Engineers (SMPTE) standards, including cables to interconnect professional high-definition Sony video cameras, transmit high-definition broadcasting signals, collect data from outside broadcast vans and deliver crisp, clear sound throughout the stadium.

Belden® Solution

The region's leading systems integrator, Al-Futtaim Technologies, selected Belden's Pro Broadcast Solutions due to a complete product offering backed by a proven track record of quality, consistency and reliability. Based on a long-time relationship with Belden and the fact that all cables are thoroughly verified and tested, Al-Futtaim knew that they didn't need to look any further than Belden's cutting-edge cables to provide Hazza Bin Zayed with the signal integrity and the latest camera compatibility they required. Extensive support, product availability and fast delivery to meet the project's aggressive time line were also key decision factors.

"Part of our success is understanding customer needs and providing ideal solutions through effective design and implementation," says Abdul Rauf of Al-Futtaim Technologies. "To carry out that commitment, we need to partner with vendors that are equally committed to quality and reliability. For critical projects like Hazza Bin Zayed, we can't take any chances. That is why we selected Belden professional broadcasting and audio infrastructure components. We knew they would have the right products to ensure the performance required for the wide variety of infrastructure needs and that they would provide all the support we need at all stages of this critical project."

**Be certain.
Belden.**

Product Information

For the camera infrastructure, Hazza Bin Zayed used 23 km of Belden's Triax 11 copper and 9 km of SMPTE 311M fiber composite camera cables. Designed specifically for HD cameras in compliance with SMPTE standards, Belden Triax 11 cables enable multiplexing audio and video signals and DC power to the camera. Used for greater distances, the SMPTE 311M hybrid optical fibre cables can also multiplex audio, video and power for HD cameras. They feature bend-insensitive singlemode fiber and Belden's innovative UV-resistance Brilliance® outer jacket.

The Hazza Bin Zayed's live video broadcasting and audio infrastructure was made up of a combination of 5 km of Belden's precision RG6 coaxial cable and 23 km of Belden 2-pair 22 AWG stranded conductors with overall Beldfoil® shield for superior noise immunity. 10 km of Belden central loose tube singlemode fiber cable was also used for data and control systems, including data collection to outside broadcast vans.

As the cornerstone of a large, mixed-use development project, the Hazza Bin Zayed stadium will eventually be surrounded by residential, commercial and entertainment venues, as well as a luxury hotel and sports and social facilities. As the development shapes the new downtown of Al Ain City, spectators and fans alike can count on the superior reliability and performance of Belden broadcast cables to make sure they don't miss a single goal or kick-off.

The combination of Belden's high quality products and extensive support with fast delivery from Belden Preferred Partner Al Mazroui enabled the fast-tracked Hazza Bin Zayed project to be installed on time.



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– **Abdul Rauf**
Al-Futtaim Technologies