

Case Study

Posejdon

Customer

Posejdon

Location

Szczecin, Poland

Requirements

The POSEJDON project is a new building, eco-friendly in every way, required an infrastructure solution that was capable of supporting a variety of services.

Equipment

Excel Category 6A F/FTP Cabling, Excel copper patch panels, Excel Environ Equipment (ER Series) Racks

excel
without compromise.

An Overview

POSEJDON is a multifunctional building with three key functionalities; a modern office space with an area of nearly 18,000m², a well-thought-out commercial and service area (over 4,500 m²) and two hotels that will offer their guests a total of 255 rooms. These areas are complemented by the largest and most modern congress center in Szczecin, housing six conference and banquet halls and a spacious foyer, which can accommodate up to 1000 people.

POSEJDON is comprised of unique and timeless architecture, which combines the features of buildings from the former *Deutsches Familien-Kaufhaus "DeFaKa"* almost 100 years ago with the modernity of the newly designed part of the complex, alongside a multitude of environmentally friendly technologies. Excellent availability and the ubiquitous attributes of Szczecin's city centre determine the uniqueness of this project and puts the building in line with other state-of-the-art office buildings in Europe and throughout the rest of the world.

The future of business is a combination of functionality and care for the environment. POSEJDON is an ambitious project fully implementing these ideas, as evidenced by the BREEAM International New Construction 2016 certification, rated as "Excellent", warranted by the application of many ecological solutions, the high quality of the facility and its low operational costs.

Sourcing a Partner

S-Cabling are an accredited Excel Distribution Partner in Poland, operating as a local support and service centre for Poland's Excel Cabling Partners. They offer sales and technical assistance to ECPs, hold stocks of key product lines to service demand throughout the region and they have a wealth of knowledge about the Excel product portfolio regarding its performance levels, its adaptability and scalability to suit a variety of vertical markets, and its flexibility to be able to

provide a tailored, comprehensive solution. For this project, S-Cabling worked in tandem with Excel Cabling Partners, KKMtech Sp. z o.o. and Elektro-BUD Sp. z o.o., who have been involved with numerous prestigious projects in both public and private sectors. Elektro-BUD Sp. z o.o. were chosen as the contractors of electrical and tele-technical systems for the POSEJDON project based on their excellent portfolio of references and their many years of experience in the field.

Their participation in the implementation of the POSEJDON investment was a guarantee of the quality required. The team of well trained, specialized staff were well equipped to handle the application, and the organization's accreditation with cabling provide, Excel Networking Solutions was a valuable element during the appointment of a contractor. Their Excel Cabling Partner accreditations confirm not only the staff experience of building structured cabling systems based on Excel components, but also their ability to certify the network and extend a 25-year systems and applications warranty to the end user. As a result, the organizations were able to provide an unrivalled level of service and support from start to finish.



The Right Product

The decision to work on this project with products from the Excel Networking Solutions range stemmed from the ability to offer a 25-year warranty, which provided peace of mind for the end user. What's more, the quality of the Excel products combined with the independent verification for each product from institutions such as Delta Laboratories/Force Technology and the products' compliance with current structured cabling standards was a crucial factor. Excel Networking met all the criteria set by the investor and was selected as the provider for the structured cabling system.



Design and Installation

The cabling infrastructure solution was designed with the building's multi-tenancy in mind. The system needed to be robust enough to withstand high levels of usage to ensure that the service levels met the expectations of all users of the building.

Excel Category 6A cabling was chosen as it takes the performance capabilities of copper infrastructure to new levels, which was a requirement for this project. The cable is designed to exceed the ISO/IEC, TIA and CENELEC for Category 6A component requirements, delivering high performance over distances of up to 90 meters, which is essential for a site as large as this. Each cable consists of two sets of two pairs wrapped together in an "S" configuration with high quality, strong, aluminium/polyester foil tape providing screening for each pair. The "S" Foil configuration ensures separation of the pairs that ensures the performance. The separation of the pairs with foil maximises performance and reduces the risk of alien

crosstalk, which was especially important for this environment where access to the network is enabled from multiple devices at any one time.

The cable was fully in line with the European Construction Products Regulation (CPR) at the highest Euroclass – B2ca – in terms of retardance-to-fire, featuring increased protection against smoke emissions, burning droplets and acid gas production, making this product a comprehensive and safe choice for the POSEJDON project.

Excel Category 6A toolless keystone jacks were selected for fast, simple termination on site without the needs for additional tools, which significantly reduced the timescales of the installation. These keystone jacks were installed into Excel patch panel frames, which were housed in Excel Environ 42U Equipment Racks (ER Series), which are a comprehensive range of cabinets suitable for a wide range of applications in the data, security, audio-visual and telecommunications markets. The ER series offers a load capacity of 600kg and a unique mounting space for the installation of structured cabling and accompanying switches, servers and network devices. The mesh door provides optimum airflow and ventilation, as well as strong aesthetics and security.

The Result

The POSEJDON project began in 2017. Three and a half years on, the easy-to-expand Excel structured cabling system has been installed, and services the building with high performance connectivity whilst maintaining the required data protection and network integrity. Relied upon to stream high-resolution images from surveillance cameras, access control systems and a modern Building Management System, the cabling infrastructure meets and exceeds the expectations of those who frequent the POSEJDON building.



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