



Grupo CCR

The Grupo CCR, headquartered in Póvoa de Varzim, was founded in 2005 and has become a national benchmark. In 2023, it began construction of its new business complex in Laúndos, a strategic investment that strengthens the Group's presence in the region and reflects its growth ambitions.

With a diversified portfolio, Grupo CCR operates in areas such as construction and engineering, metalworking, electrical and hydraulic installations, carpentry, real estate investment, hospitality, and communication. This diversity has been key to its resilience and adaptability in a constantly evolving market.

Renowned for its strategic vision and commitment to innovation, the Group has invested heavily in modernizing its operations. Its new business complex is part of a broader technological transformation project, designed to increase the efficiency, resilience, and scalability of its internal systems.

The completion of this project, scheduled for June 2024, marks a decisive step in building a robust technological foundation to face future challenges and support the Grupo CCR sustained growth in the coming years.

Customer

Grupo CCR

Integrator Partner

BBS Cabling

Location

Póvoa de Varzim, Portugal

Implemented Solution

The implemented solution included a complete structured cabling infrastructure with technology and materials supplied by barpa, including:

- 6 strategically positioned network racks for maximum efficiency and accessibility;
- Over 700 high-performance CAT6A U/UTP network points, prepared for traffic up to 10Gbps;
- Structured cabling composed of:
 - 30 km of CAT6A U/UTP LSZH Dca-s2,d2,a1 cable
 - 350 m of LSZH Dca G657A2 fiber optic cable

Challenge and Overcoming

During the project execution, it was identified that part of the cabling had been previously installed by an external team. Although operational, this initial infrastructure clearly did not meet the defined standards for organization, reliability, and presentation. The project envisioned a modern structured network capable of integrating services such as data and voice networks, CCTV surveillance, access control, and technical management systems, ensuring safety, efficiency, and manageability without compromising productivity.

Integrating the existing cabling with the new technical requirements proved to be one of the main challenges. Several improvement areas were identified, especially in cable routing through technical ducts and vertical drops to the racks, which required cleaner, more accessible execution aligned with the client's standards. The final solution focused not only on ensuring system performance and reliability but also on guaranteeing ease of future maintenance and a tidy presentation in line with the high standards of the new facility.

Faced with this scenario, the technical team responsible for project delivery decided to intervene, ensuring that the final infrastructure reflected the rigor and excellence that characterize the work of BBS Cabling. With professionalism and respect for the previous work, the cabling was replaced and reinstalled, ensuring a homogeneous, organized, and reliable integration. Route adaptations were also necessary and were executed swiftly to overcome unforeseen physical obstacles without compromising the project timeline.

barpa played a key role as a link between all parties involved. From the outset, it facilitated technical alignment and strengthened communication between the client and the integrator, ensuring all decisions were made based on shared and objective criteria. The proximity between Sérgio Coutinho, from barpa's engineering team, and engineer Marco Rios from Grupo CCR was particularly important in anticipating challenges, clarifying expectations, and keeping processes moving.

Beyond the technical component, barpa also assumed the coordination of logistics and deliveries, carefully planning the arrival of materials according to the project's phases. This planning prevented local accumulation and ensured that resources were available at the right time, contributing to installation fluidity and efficiency.

This joint effort, based on a demanding technical approach, transparent communication, and rigorous logistics, turned a potential challenge into an example of resilience, cooperation, and professionalism among specialized teams, resulting in a solid installation aligned with the client's highest expectations.

Choosing our Partner

The choice of the integrator partner was based on their proven experience in large-scale projects and their ability to ensure high standards of technical quality. Their performance stood out for precision in execution, strict adherence to deadlines, and high adaptability in the face of construction challenges, critical factors for the success of projects of this scale and complexity.

Installation

Method

The installation followed a star topology, with all network points converging to central racks, ensuring centralized and efficient control. The racks were interconnected using OS2 (single-mode) fiber optic cables with 4 fibers per link, providing a robust, high-throughput, and reliable infrastructure. This technical choice ensures support for long-distance transmissions and high traffic capacity, essential in medium to large-scale corporate environments.

Reason

The choice of a star topology was due to its ability to provide greater stability and ease in network management. In the event of a failure at an access or connection point, the impact is isolated without compromising the rest of the system. The use of OS2 4FO fiber also ensured greater immunity to electromagnetic interference and prepared the network for future bandwidth and redundancy requirements.



Result

The result confirmed and exceeded the expected quality standards, reflecting an excellent installation that combines technical rigor, exemplary organization, and high aesthetic quality. The completed infrastructure demonstrates not only compliance with the highest technical requirements, but also great attention to functionality and ease of maintenance — essential factors to ensure the longevity and reliability of a structured network in a business environment.

The high level of organization in the cabling installation, with optimized paths and a clean, consistent visual presentation, highlights the competence and professionalism of the BBS-Cabling technical team. This approach not only enhanced the physical environment but also reinforced the client's confidence in the delivered solution.

barpa's involvement proved essential to ensure continuous alignment between client objectives and on-site execution. Their approach ensured smooth communication, efficient logistics, and close technical support, all of which were key to anticipating challenges and maintaining work pace without compromising quality.

Despite initial obstacles, the adaptability and collaboration among the involved teams turned the challenge into an opportunity for success. The project concluded with a robust, modern, and visually coherent solution that reinforces the commitment to excellence and establishes a solid foundation for future expansions.

This project at Grupo CCR was an example of how collaboration between teams makes a difference. Even with the initial challenges, such as the need to reorganize part of the cabling, we quickly aligned solutions with the client, ensuring the quality and organization that define our work. barpa's close involvement, with phased deliveries and constant technical support, allowed us to focus on installation and detail, completing the project to the standard we set out to deliver.

Mário Silva

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