

Industrial
Sector



In the era of Industry 4.0, production processes are being revolutionized by digitalization, automation, and robotics. Industrial environments – from factories and warehouses to logistics hubs and advanced manufacturing units – demand robust and secure infrastructures to support smart systems, sensor networks, and machine-to-machine communication.

The challenges of the **Industrial Sector** require robust solutions to handle **electromagnetic interference (EMC)**, **dusty and particle-heavy environments**, and the **growing need for automation**. IP Convergence enables the integration of various industrial systems, such as **PLC (Programmable Logic Controllers)**, **IoT sensors**, **security systems** and **access control**, creating an interconnected and efficient industrial ecosystem.



Growth of Digitalization in the Industrial Sector

The **Industrial Sector** is undergoing a rapid digital transformation, driven by the adoption of **Industry 4.0** and **Industrial IoT (IIoT)**.

O mercado global de automação industrial deverá atingir 295 mil milhões de dólares até 2028, com um crescimento anual de 9,8%.

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Key drivers of this growth

Automation and Robotics
Increasing adoption of intelligent machines and automated systems.

Industrial IoT (IIoT)
Connected sensors for equipment monitoring and production optimization.






Cybersecurity
Protection of industrial networks against cyberattacks.

Operational Efficiency
Waste reduction and optimization through digital transformation.

Challenges

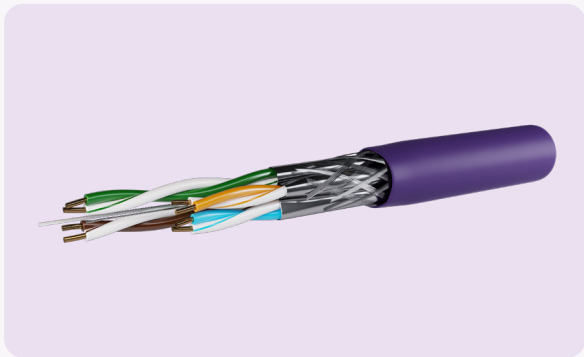
for IT Managers in the Industrial Sector

IT managers face unique challenges in industrial infrastructure.

	Electromagnetic Interference (EMC)	High-powered industrial equipment can generate electromagnetic noise that disrupts network communication.
	Harsh Environments (Extreme Temperatures, Dust, and Vibration)	Requires robust infrastructure to endure adverse conditions.
	Automation and Real-Time Processing	Industrial networks demand low latency and high reliability for continuous operations.
	Information Security and IoT Connectivity	Protection against unauthorized access and cyberattacks.
	Scalability and Maintenance	Networks must be ready for future growth without compromising current operations.

barpa Solutions for the Industrial Sector

barpa develops a full ecosystem of structured cabling solutions tailored to the needs of industrial environments, ensuring reliable connectivity, safety, and operational efficiency. Our solutions support digitalization, automation, and robotics, enabling system integration and real-time data collection.



Copper Cabling Solutions for Distribution and Backbone

barpa offers high-performance copper cabling (Cat6A and above) that supports intensive communication applications—essential for the integration of automation, robotics, and IoT systems.

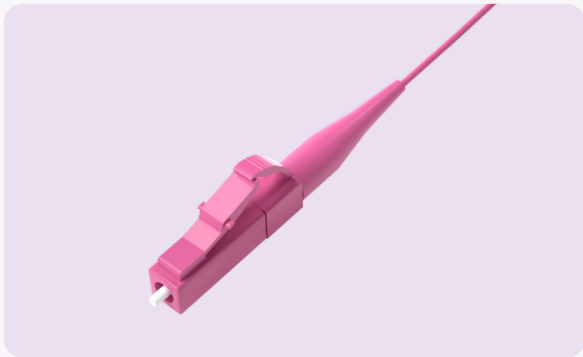
- ✓ Independent lab certification (Cat6A U/FTP 700MHz) ensures superior performance even in high-traffic environments.
- ✓ Multiple shielding options (U/FTP, S/FTP) help minimize electromagnetic interference, protecting sensitive equipment and control systems.



Energy Efficiency and Sustainability CPR Cca and B2ca Cables

Ensuring safety and energy efficiency is critical in the industrial sector.

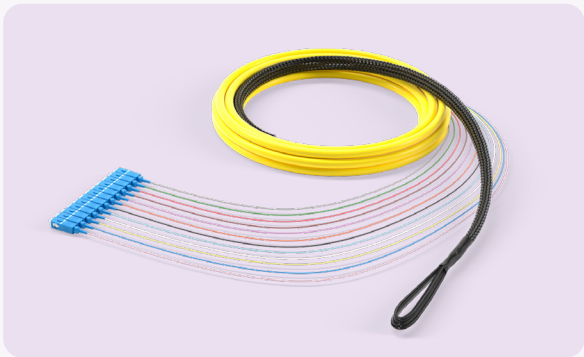
- ✓ Cables with low flame propagation and low smoke emission (LSZH) provide a safer and more sustainable working environment.
- ✓ The lower electrical resistance of these cables contributes to optimized PoE system performance, reducing overall energy consumption.



OM4 and OS2 Fiber Optic Solutions for Industrial Connectivity

Designed to function as high-speed backbones, barpa's fiber optic solutions deliver low-latency, high-performance data transmission, supporting digital applications and automation systems.

- ✓ Supports 10G, 40G, and 100G networks, making them ideal for industrial environments requiring real-time data transmission.
- ✓ Electromagnetic interference immunity and low signal attenuation ensure secure and reliable transmission, even across large-scale installations.



Pre-Assembled Fiber Optic and Copper Solutions

To accelerate the deployment of digital infrastructure, barpa offers pre-assembled solutions that reduce installation time by up to 60%, ensuring both precision and quality.

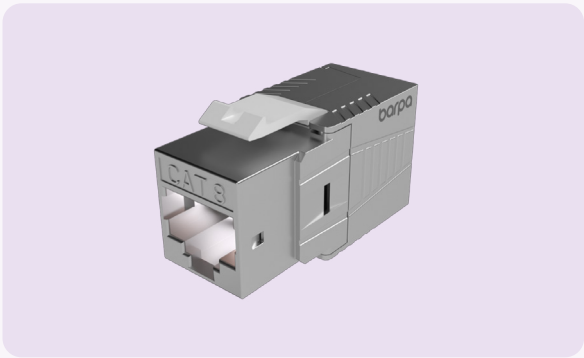
- ✓ Significant reduction in errors and operational costs (CAPEX and OPEX), enabling fast and efficient modernization of industrial networks.



Rack Solutions for Industrial Data Centers and Technical Rooms

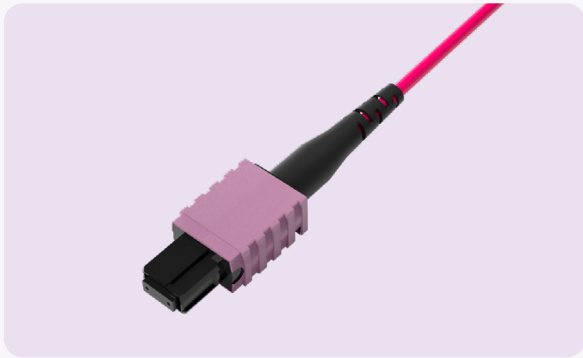
Our racks and enclosures are designed to organize and protect critical equipment, ensuring proper ventilation and thermal management required in industrial environments.

- ✓ Available in multiple formats, adaptable to different needs and spaces, facilitating maintenance and supporting infrastructure scalability.
- ✓ For dust-prone environments, we offer the Indus solution, rated IP55 for indoor use.



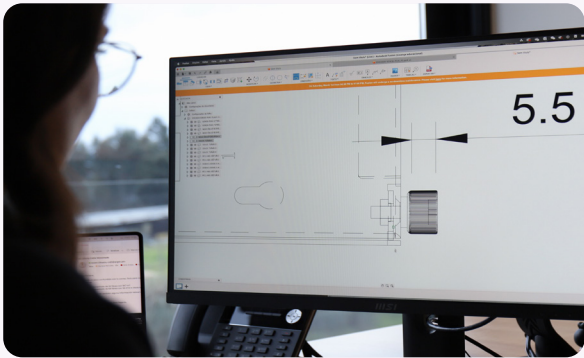
Ease of Installation and Maintenance

With innovations such as screwless fiber optic adapters and toolless RJ45 modules, barpa ensures quick installation and reduced maintenance time, boosting overall operational efficiency.



MPO/MTP - Efficiency and Speed in Expanding Industrial Networks

Ideal for high-density data and connection environments, barpa's MPO/MTP connectors allow simultaneous termination of multiple fibers, accelerating network expansion and simplifying upgrades to future technologies.



Custom Solution Development

A nossa equipa de R&D está preparada para entender os desafios específicos do setor industrial e desenvolver soluções personalizadas, ajustadas às necessidades de digitalização, automação e robotização.

Benefits
of choosing barpa

barpa offers a complete ecosystem of structured cabling solutions, ensuring reliable connectivity, maximum security, and energy efficiency for the industrial sector.

Certified and Future-Ready Solutions

Robust and scalable infrastructures, capable of meeting market demands.

Secure, Efficient, and Sustainable Networks

Advanced protection against cyberattacks and optimized energy resource usage.

Fast Installation and Reduced Operational Costs

Streamlined processes that minimize downtime and maximize efficiency.

Specialized Technical Support

An experienced team to develop customized projects and solve specific challenges.

Ready to move forward?

Schedule a meeting with our sales team and discover how barpa can transform your industrial

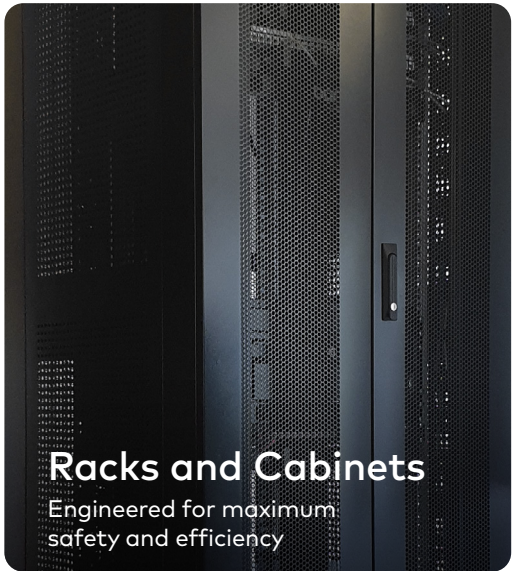
infrastructure—supporting the digitalization and automation of your processes!

✉ info@barpa.eu
🌐 www.barpa.eu

barpa is a company specialized in highperformance connectivity infrastructures, delivering **fiber optic and structured cabling solutions across multiple sectors, including healthcare, hospitality, industry, commercial buildings, data centers, smart buildings, and more.** With a strong commitment to proximity, quality, and innovation, barpa provides resilient and secure infrastructures that ensure uninterrupted connectivity for a wide range of applications.

Our purpose is clear:
Unite humanity through telecommunications across generations and to become one of the most influential companies in the sector globally.

As a brand of the Argon Group, active in the market since 2001, we demonstrate sustainable growth, backed by multiple certifications and awards in management, environmental, and financial areas.



What Sets Us Apart

At **barpa**, we believe that the combination of experience, innovation, and closeness to our clients is what makes us a trusted partner for structured cabling infrastructure. Our commitment to quality, customization, and sustainability is reflected in everything we do, delivering high-performance solutions for the most demanding sectors.

MARKET REPUTATION

barpa has earned a strong and trustworthy market position, recognized for its quality, reliability, and commitment to clients. Our industry experience allows us to deliver solutions that meet and exceed market expectations.

CLIENT PROXIMITY

We value partnership relationships and continuous support. Our team is always available to understand challenges, propose tailored solutions, and provide the best support before, during, and after each project.

TECHNICAL EXPERTISE AND CUSTOMIZATION

We have a highly specialized team and flexible processes that allow us to develop and produce solutions tailored to each client's needs. We don't just deliver products; we provide solutions adapted to each infrastructure.

R&D AND INNOVATION FOCUS

Our Research and Development (R&D) team constantly works on creating next-generation technology solutions, ensuring our products meet the demands of an ever-evolving market.

SUSTAINABILITY AND EFFICIENCY

We are committed to ecological and efficient solutions, reducing waste and optimizing resource use. This is proven by our ESG Committee and internal Turn Green initiatives.

MOTIVATED AND PROACTIVE TEAMS

barpa's success is driven by our highly motivated teams, focused on excellence and client proximity. We value a culture of proactivity and continuous improvement in pursuit of our mission.



Support and Partnerships

Production



At barpa, we believe that production with quality and cost efficiency are key to success.

That's why we guarantee excellence standards in all our solutions, from the development phase through to final production.

We rely on a global production network, through strategic partnerships in several parts of the world, ensuring the best technology, efficiency, and scalability to meet sector demands.

All production is rigorously controlled by our team, ensuring certified quality, compliance with international standards, and total product reliability.

With this approach, we develop innovative, competitive, and adaptable solutions aligned with the highest technical and safety requirements.

Logistics



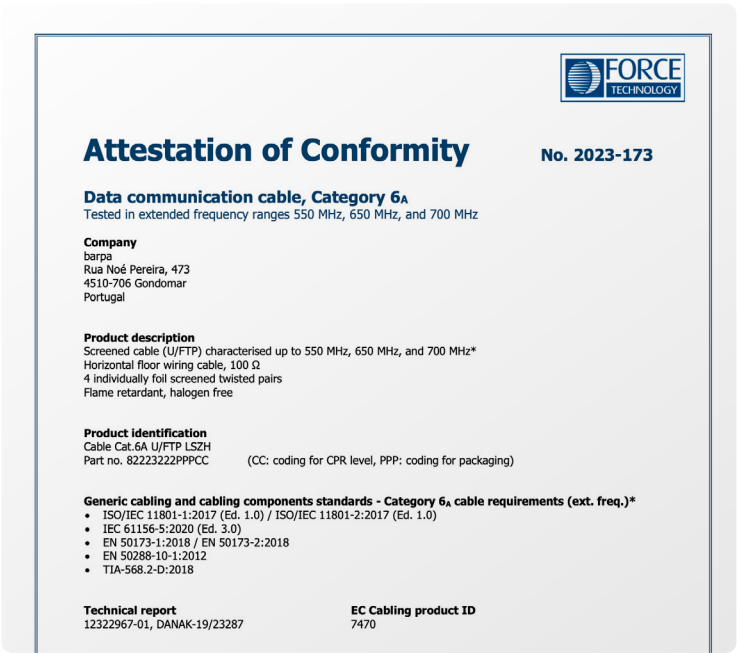
At barpa, we know that logistics efficiency is essential to ensure that infrastructures have access to the best connectivity solutions without delay.

Our distribution center in Portugal allows us to manage orders efficiently and ensure rapid deliveries worldwide. Our team closely follows the entire logistics process, from dispatch to final delivery, ensuring transparency, predictability, and continuous support.

We work with strategic logistics partners to deliver flexible solutions tailored to client needs.

With barpa, you can count on fast order management, continuous tracking, and dedicated support—ensuring your projects never stall due to material shortages.

Quality



At barpa, quality is the foundation of everything we do.

From development to production and delivery, we ensure each solution meets the highest technical and reliability standards.

Each product undergoes rigorous quality control processes, ensuring performance, durability, and compliance with international standards.

Our client-centric focus allows us to deliver customized solutions that build confidence and satisfaction in every project.

With barpa, our clients know they can rely on certified, reliable solutions ready to meet infrastructure challenges.

Our commitment to excellence is reflected in customer satisfaction, with an NPS (Net Promoter Score) rating of 9.4.

At barpa, we believe in the quality, reliability, and durability of our structured cabling solutions. That's why we offer an exclusive 25-Year Warranty Program for certified barpa integrators, ensuring maximum security and performance of installed infrastructures.

- By joining the program, integrators gain access to:
- ✓ Full 25-year coverage on the performance and certified solution components.
 - ✓ Compliance assurance with international standards and guaranteed performance for future applications.
 - ✓ Specialized technical support for project implementation and infrastructure certification.
 - ✓ Market differentiation, offering end clients a validated and long-lasting installation.

barpa works in partnership with integrators to ensure each project is delivered with certified quality, providing reliability and added value for clients in the most demanding sectors.

Want to become a Certified barpa Integrator and offer 25 years of warranty on your installations?

Get in touch with us and discover all the advantages of the program!

barpa

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