

# JAC Supports IT and Building Automation Systems with a Single, Easy-to-Manage CommScope® Cabling Infrastructure

Leading Chinese auto maker upgrades research center cabling with SYSTIMAX® InstaPATCH® Plus, LazrSPEED® and GigaSPEED® XL Solutions



JAC (Jianghuai Automobile Co., Ltd) is one of China's leading producers of commercial vehicles, cars and automotive components. The company, founded in Anhui Province during 1999, can trace its roots back to the mid 1960s. Today, it is a highly successful business with an expanding product range, and is a key enterprise in China's developing auto industry.

The company's R&D Center is playing a central part in its growth, particularly in the passenger car and multipurpose vehicle sectors. New models for these markets are now being developed alongside trucks and truck power trains.

The 19-floor, 40,000m<sup>2</sup> Center, started in 2005, is an \$80 million investment allowing JAC to design, develop and test new products locally. Within the building, high speed network communications are the foundation for advanced IT and building control systems.

When the company chose network cabling to connect its systems, its priorities were zero-fault data transmission and minimum network downtime. To achieve this, it is now using SYSTIMAX® InstaPATCH® Plus modular pre-terminated fiber cabling as part of a SYSTIMAX infrastructure, connecting systems of all types throughout the R&D Center.

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– Mr. Shao Jing Yuan,  
IT Manager of Jianghuai  
Automobile Co., Ltd.

“As well as advanced computer aided design and development applications, the cabling supports video, data, fire, access control and building management systems,” said Mr. Shao Jing Yuan, IT Manager of Jianghuai Automobile Co., Ltd. “By converging these onto a common, highly reliable infrastructure backbone, we reduce costs and simplify maintenance.”

The InstaPATCH Plus System features factory-terminated, factory-tested, high density, modular fiber connectivity. This allows technicians to connect components together quickly and reliably. In the R&D Center, it supports SYSTIMAX LazrSPEED multimode fiber connections up to 300 meters.

Twelve-fiber MPO connectors terminating the fibers allow a connection density twice that of traditional systems and help guaranteed quality and performance. The connectors are also designed for administrative convenience, making it easy to reconfigure the network during moves, adds, and changes. At the same time, upgrading to parallel connections is made simpler by using MPO connectors.

Commenting, Mr. Shao Jing Yuan said “This modular system approach enables 96 fibers to be ready for service in the time it takes to make a single fiber connection with traditional systems – in a fast moving business, such savings are important.”

The contract to supply JAC was won against fierce competition and, when completed, will be the largest InstaPATCH Plus installation in China. In addition to the performance of its SYSTIMAX product portfolio, CommScope was chosen as the supplier because of its global resources and technology leadership through CommScope Labs.

Alongside InstaPATCH patching hardware and LazrSPEED laser optimized 10 Gb/s multimode fiber, CommScope is supplying GigaSPEED XL copper cabling. This offers performance that comfortably exceeds the Category 6 standard even under adverse conditions. Like all SYSTIMAX products, its reliability and performance are guaranteed by CommScope’s industry leading 20-year warranty and application assurances.

CommScope BusinessPartner, Anhui An Tai Science and Technology Co., Ltd. designed the JAC system. It also planned and managed the project, deploying a 40- strong installation team. More than 12,000 outlets were installed, of which 3,000 are for voice and 70 for fiber-to-the-desk.

The outlets are connected via fourteen telecommunications rooms, located throughout the Center, using 460km of GigaSPEED XL copper cable for data. More than 180km of SYSTIMAX PowerSUM cable is used for voice connections. For fiber-to-desk connections, 9km of LazrSPEED 300 cable is installed together with 18 pre-terminated trunk cables for backbone connections.

Work area outlets are either floor-mounted or located in partitions. Cable runs to the outlets are under floor or, for partition-mounted outlets, above the ceiling with dropdowns.

Commenting on the project, Charles Wong, Regional Director Greater China, CommScope Enterprise Solutions said: “JAC is an exceptionally dynamic company and, to focus on growing its business, it needs systems it can absolutely rely on. We were able to provide a cabling infrastructure that meets all their reliability and performance needs. And, with the InstaPATCH Plus System, we save them time on installation and maintenance.

“Our approach to converging a building’s many systems, from security to databases and CAD, onto a common infrastructure backbone also makes the R&D Center more efficient and cost-effective to manage.”



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