

Kostal-Huayang Builds World Class Cabling Infrastructure with CommScope's 10G Solutions

Chinese-German joint venture selects SYSTIMAX® GigaSPEED® X10D copper and LazrSPEED® fiber solutions for Shanghai factory



When German manufacturer, Kostal set up a joint operation with Huayang in China, it wanted the same systems performance it enjoys in its European factories. The Kostal- Huayang Automotive Electric Co, located in Shanghai International Automotive City (SIAC), had to have a network infrastructure as good as - or better than - any of Kostal's 27 other locations worldwide.

In the competitive world of automotive component supply, every aspect of the business has to contribute to achieving a competitive edge. This makes network infrastructure especially vital since the performance of many different systems depends on it. So, Kostal-Huayang did not settle for 1 Gb/s connectivity; it decided on an end-to-end 10G solution.

"We wanted a high-performance, high quality infrastructure throughout the site so we could immediately benefit from new technologies without costly cabling upgrades," said Mr. Zhang Xuan, IT Manager of Kostal-Huayang. "We were particularly determined to have the best available network physical layer – the company cannot afford to run out of network capacity in the next five or ten years."

The solution selected after considering all the alternatives was a combination of 10G fiber and copper connectivity from the CommScope portfolio. SYSTIMAX GigaSPEED X10D copper cabling is used in horizontal connections to work areas while the SYSTIMAX LazrSPEED multimode fiber solution is used in network backbones.

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— Mr Zhang Xuan, IT Manager of Kostal-Huayang

Together, these infrastructure solutions support video, data, fire alarm, access control, VoIP applications across the site. More than 1,600 outlets are connected within the single storey production facility and the nearby two-floor office block.

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Installation of the network was completed by CommScope Prestige BusinessPartner, Shanghai NewLAN Co., Ltd working with CommScope technical support. Over the four-month project, three project managers, six engineers and 12 cabling technicians were deployed on the installation. In total, they laid 103Km of the Category 6A, GigaSPEED X10D cabling and 1,284 meters of 24-core LazrSPEED 300 multimode fiber cabling.

The GigaSPEED X10D solution is engineered with enhanced cable and connector performance to support 10 Gigabit Ethernet requirements. It also meets the ratified IEEE 802.3an 10GBASE-T standard and fully complies with the Class E_a cabling channel specifications and Category 6A cabling specifications.

The LazrSPEED 300 connections provide 10Gb/s data transmission over distances up to 300 meters without need for expensive singlemode electronics. This gives the performance needed in network backbones linking communications rooms in the factory with those in the office block. Backbone cables within the two buildings use the GigaSPEED X10D solution.

Copper cables from floor-mounted outlets runs under the buildings' floors to six communications rooms. Here, the cables are terminated at SYSTIMAX M2000 UTP modular patch panels. The fiber backbone connections in the rooms are terminated at SYSTIMAX 600 G2 hi-density, slide-out fiber shelves.

“The CommScope solutions give us an integrated, 10G cabling infrastructure from end-to-end,” said Mr. Zhang Xuan. “All the components are designed to work together efficiently and the complete system is backed by the best warranty and application assurance in the industry.”

Now fully operational, the Kostal Huayang site network supports the manufacture of components for customers in China including Volkswagen, Ford and General Motors. The site's 600 employees also provide products and sourcing services to other units in the 11,000-strong Kostal international operations.

Commenting on the role of the Kostal Huayang site network infrastructure, Charles Wong Regional Director of Greater China, CommScope Enterprise Solutions said: “The Kostal Group is committed to providing its customers with flexible supply on a local basis, delivering the same quality and customer service from all its sites. To do this, they need a consistently high level of system performance in every location, backed by a top quality global and local support organization.

“With its four-tier technical support and a network of highly trained BusinessPartners on every continent, CommScope is the only company with the depth of worldwide resources to provide the support Kostal needs - wherever and when ever it needs it.”



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