

CASE STUDY

CAT.7 DATA CABLE FOR AUDI Q5 MANUFACTURING PLANT

For their ultra-modern plant in San Jose Chiapa, Mexico, Audi AG opted for a future-proof, high-performance cabling solution from Datwyler. More than 600 kilometres of “CU 7120 4P” data cable and more than 17,000 RJ45 Cat 6_A outlets were delivered for this project.

In past years Mexico was the fourth exporter and the eighth car producer, but figures will increase in the next few months due to the start-up of new operations by different car manufacturers. These will increase Mexico's production boosting exports since most of the cars are produced for the US, Central and South American markets.

Among the latest plants we can find the most up-to-date production plant in the Audi world. In San Jose Chiapa, Puebla, at an altitude of 2,400 metres, this Audi plant is being created on a 460 hectare site, where the German car producer is investing more than 1 billion dollars. Around 3,300 employees have been recruited for automobile production, and a total of 4,200 people will be employed at the site. The new Audi plant will produce 150,000 units per year of model Audi Q5 and for this the company has selected approximately 180 suppliers.

It will be the world's most modern Audi plant, placing priority on ecological, social and economic sustainability, and thus playing an active part in shaping the region's future.

High future viability and investment protection

Audi decided to introduce a Cat 7_A expandable and flexible Datwyler copper cabling system, which offers high performance headroom and will therefore save the expense of re-wiring for future applications. For a future-proofing strategy Cat 7_A cable is suitable for transmission -



frequencies of up to 1000 megahertz, featuring even more stringent specifications for crosstalk and system noise than other usual categories on the Mexican market. An annualized cost of ownership perspective shows a far greater return on investment, as the system has such a long lifespan. More than 600 kilometres of “CU 7120 4P” data cable and more than 17,000 RJ45 Cat 6_A outlets were delivered for this project.

Fibre optic cables and panels were also included. Datwyler delivered more than 120 kilometres of “FO Universal” cable and more than 500 panels in different versions.

The last phase of this project included another 100 kilometres of a specific direct burial fibre optic cable for a CCTV surveillance system.

Certified system integration partners

Some weeks after the beginning of the project Datwyler implemented on-site training for the system integrators. This training, introduced by a Datwyler specialist from Switzerland, covered the best practices for the company's



copper and fibre optic portfolio and the different measurement protocols, and ensured the correct installation of the products according to Audi standards.

Another key factor was the effective coordination of deliveries, which enhanced the quality of services. Benefits include more efficient on time delivery of materials and resources and improved working relationships.

Due to Datwyler's presence in Mexico, its distributor Marathon Eléctrica de Puebla and its certified integrators, the whole project ran smoothly without any delay.

The implementation of this future-proof high-performance ICT cabling solution complied with Audi's most stringent demands. The successful project in Mexico represents an opportunity to again secure Datwyler's expertise in planning the next project at an early stage.