

Case Study ■

PROJECT OVERVIEW

- 150M USD investment in phase one
- Tier 2-Tier 4 third-party Data Centre
- 913 pcs of ModLink™ pre-terminated fibre cables
- 20500 PowerCat™ 6A modules
- 140KM PowerCat™ 6A copper cables

Exploration of

a next-generation customised Data Centre

----Molex pre-terminated solutions connect Ordos Big Data Centre

The Project

Ordos city is located in the south west of Inner Mongolia; it is the second largest city and the local economic centre for the Inner Mongolia province with a total area of 86,752 square kilometres and a population of two million people. Ordos used to be famous in China with its abundant coal reserves and luxury cashmere products. Now, with the rapid growth of China's economy and the internet, Ordos has become one of the most desirable locations in China for building data centres, thanks largely to its outstanding location and climatic conditions, abundant energy and land reserves, strong economy and diverse talent pool.

The total investment in phase one of Ordos Big Data Centre's development programme is 900 million RMB (USD \$150m) and with a construction area of 40,000 square metres and over 400 racks deployed already, it is one of the key projects in Ordos city government's 2013 "Smart City" strategic plan. Molex recommended a pre-terminated fibre and Cat 6A copper solution for the Ordos Big Data Centre cabling system.

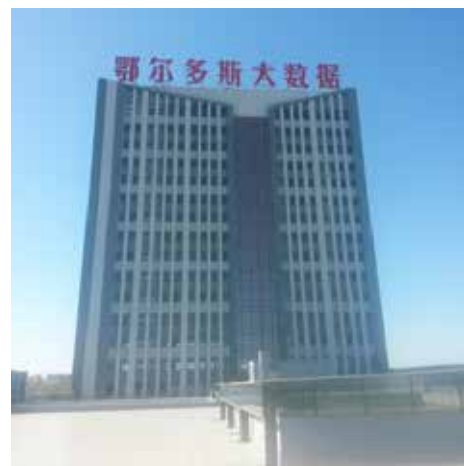
Each Equipment Distribution Area (EDA) is connected to a Horizontal Distribution Area (HDA) by Cat 6A FTP cable and 24 cores pre-terminated OM3 fibres; each HDA is connected to a Main Distribution Area (MDA) (there are two MDAs in this project, MDA-A and MDA-B) connected by Cat 6A FTP cable and 12 cores pre-terminated OM3 fibres; MDA-A and MDA-B are connected by Cat 6A FTP cable and 48 cores pre-terminated OM3 fibres.

After the project was completed, a total of 913 pcs various length and type of ModLink™ pre-terminated fibre cables, 449 1U and 4U Lightband™ fibre patch panels, 930 Lightband™ fibre adapters and ModLink™ cassettes, 20500 PowerCat 6A shield copper jacks, 858 PowerCat 6A patch panels and 140km of PowerCat 6A copper cable have been deployed inside the Ordos Big Data Centre .

Why did Ordos Big Data Centre choose Molex?

Ordos Big Data Centre is a third-party data centre and can deliver T2 to T4 security level services and having a robust network infrastructure provides an important level of assurance that the data centre will operate safely and stably. The cabling system is at the heart of the network infrastructure, so sourcing reliable, high-specification cabling system products became a key task for Ordos Big Data Centre's construction and operation contractor, Rockontrol.

In order to select the right structured cabling products supplier, Rockontrol's technical and purchasing team had investigated all the major suppliers in China market and after several rounds of comprehensive evaluation, they finally chose Molex to supply Ordos Big Data Centre with structured cabling products.



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Rockontrol's project manager Mr. Wang comments: "When we visited Molex Shanghai's warehouse in Wai Gao Qiao Free Trade Zone before the project began, the huge storage room, high levels of inventory and professional operating procedures left us an incredible impression. After the project was started, Molex also provided enormous help so that we were able to replace the existing underperforming system in less than three months. In order to reserve enough time for the installation of other systems, we kept moving up the structured cabling products' delivery schedule and each time, Molex worked hard to fulfil our requirement - they even delivered the first batch of pre-terminated fibre cables in the first week of installation; meanwhile, all these pre-terminated fibre cables were packed by rows, following the cabinet configurations, which was very convenient for our installation and saved a lot time."

Mr. Wang concludes: "The reasons we choose Molex are:

1. Molex products' performance and quality met Ordos Big Data Centre's harsh environmental requirements
2. Molex's capacity and logistic service could meet our tight delivery requirement
3. Molex's professional employees could help us encounter all the difficulties in the project

The successful operation of Ordos Big Data Centre proved that it was absolutely the correct choice to use Molex products."

Conclusion

"Ordos Big Data Centre is a landmark project for Molex in the data centre market," Timothy Lam, the Greater China Sales Director of Molex comments: "through this project, we have improved the data centre-related product line configuration, optimised the emergency delivery procedure, enhanced the co-operation level of the whole team and it helped us accumulate additional experience for future data centre projects. I believe that with the rapid development of the Chinese data centre industry, Molex Premise Networks could not only achieve a great future but also contribute to improving the Chinese structured cabling market."



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