

CASE STUDY

PRE-ASSEMBLED DATA CENTRE SOLUTION FOR SHENZHEN'S HOUSING PROVIDENT FUND

The data centre in the Housing Provident Fund's management centre is experiencing the benefits of an ultra-reliable Datwyler cabling system installed with impressive speed.



After 18 years without any such institution, the establishment of the public Housing Provident Fund for the City of Shenzhen in 2010 marked a milestone in the history of this major Chinese business centre, home to 14 million people. The fund administers the contributions paid in by employees, who can then use the money saved to buy, build or renovate affordable housing.

The data centre is the "heart" of the Housing Provident Fund's data storage and management. In view of its crucial importance, the choice of a suitable cabling solution focussed primarily on performance and reliability as well as on modern, easy-to-handle products. It also had to meet the customer's system requirements in addition to international and Chinese standards. A pre-assembled data centre solution by Datwyler was the optimum choice for this project.

Installation with 8,000 ports

The cabling system was designed and installed between January 2011 and June 2012. The solution supplied by Datwyler comprises just under 5,000 fibre optic ports and pre-assembled 10G OM2 cables with low-smoke zero-halogen (LSOH) sheaths. On top of that there were around 3,000 copper ports, over 100 kilometres of Category 6 data cable with flame-retardant (FR)

LSOH sheaths, approximately 3,000 Category 6 modules and several copper trunk cables.

The data centre solution is used in both the SAN and central LAN area of the data centre. It provides high-speed connections between 14 racks with minicomputers, 22 racks with storage equipment and SAN switches, 10 server racks and a further 22 racks with the core network equipment. The fibre optic solution is based on MPO multi-fibre connection technology for inter-connecting the distribution racks. This solution has LC duplex multimode ports to link the active equipment. The copper technology installed in parallel is used only in the LAN area, and here chiefly to connect equipment with copper ports and various functional areas.

Maximum reliability

The hallmarks of the Datwyler solution are fast, comparatively easy installation and a high level of reliability: all the products are pre-assembled in the factory and only released after stringent quality testing. Once delivered, the pre-assembled modules just need to be slotted into their allotted spaces in the distribution enclosures. Cabling with pre-assembled tested cables does away with a lot of very time-consuming work on site – splicing, for example.





At the same time factory pre-assembly and stringent pre-delivery testing minimise any errors which are liable to arise during on-site assembly. Installation is relatively convenient and rules out any possible further error, thereby also contributing to the superlative reliability of the cabling system.

The on-site system tests following handover showed that the Datwyler solution installed complied fully with current national and international data centre standards and that – as confirmed by those responsible – it met the client's requirements in every respect.

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