



## Fareham Data Centre

Fareham, Hampshire, UK

Cundall was appointed by Kingfisher/B&Q to design and manage the construction of a new data centre in Fareham, Hampshire.

The first phase established the site infrastructure and the first data hall to a Tier 3 standard. The second phase designed and managed by Cundall included the fit-out of a second data hall, an increase in UPS capacity and the construction and fit-out of an office area to act as a business process disaster recovery centre with 48 seats.

Each data hall accommodates 96 server cabinets rated at 2.25 / 2.75 KW delivered via N+N electrical infrastructure with a dual 11 KV incoming supply.

### Benefits:

- Resilience - The design provides a simple N+N power system with auto change-over to the available supply. The transformers, generators and UPSs were sized to allow full redundancy. The switchgear was designed to allow any main board, UPS input board or UPS output board to be taken off line for maintenance or modification. The PDUs include static switches to provide instant cut-over to protect servers and storage devices.
- Maintainability - The maintainability of the design was proven when the second hall was constructed and the UPS capacity was doubled without any need to shut down the servers in the first data hall.
- Space economy - The business process DR centre with 48 seats is located in void space above the second data hall to make best use of the interior space in this building.

As well as IT and audio visual  
Cundall provided building services  
and structural engineering

**Client** Kingfisher/B&Q

**Architect** Heighway Associates