

# Warehousing Infrastructure

Delivering large scale excellence at speed



**Comlek**

## Client Project Manager

*"With their ability to supply and install a comprehensive system for our new infrastructure needs, Comlek proved themselves to be the perfect partner to deliver our specific requirements."*

## Executive Summary

In preparation for relocating to a new warehousing facility one of the major supermarket brands appointed Comlek to carry out the installation of a new communications infrastructure to support voice directed order picking technology.

The installation comprised of: fifty-four high level CAT6 cables to support wireless technology, 198 wired LAN outlets, twenty-two diversely routed 12 core OM4 optical fibre cables, ten 18U remote communications cabinets, and six 42U server cabinets in comms room A & B.

## Challenges

Due to the tens of thousands of stock management transactions passing through the network daily, the new infrastructure design and installation needed:

- The new communications and data infrastructure to deliver high capacity.
- Full resilience to accommodate current requirements.
- To factor in capacity for future expansion of operations.

- Cisco wireless access points fitted onto drop rods and suspension hangers from the roof purlins, to ensure uniform and consistent positioning heights throughout the warehouse area.
- CAT6 cabling throughout the office space using dedicated cable basket containment at high level, and Jezmat cable matting for low level routing.

## Results

The deployment was essential to the success of the client's daily business operation, ensuring continuous, reliable and resilient connectivity.

Comlek were able to deliver the entire connectivity infrastructure within budget, whilst working to an extremely challenging programme of works and finishing the installation within 8 weeks.

## How Comlek Helped

The size and demand of the distribution centre meant Comlek installed:

- Over 22km of CAT6 high-capacity copper infrastructure, delivering high speed connectivity to support voice order picking, warehouse management technology, wired LAN, security and printers.
- Ten remote communications cabinets located around the perimeter of the warehouse plus six further cabinets across two server rooms.
- Over 6km of superfast optical fibre cabling (installed between all communications cabinets).
- CAT6 outlets 12 metres above ground level.



### Chris Liddemore, Head of Operations at Comlek:

*"This project demonstrates the benefits of the knowledge and experience our teams have when it comes to delivering complex infrastructure installations."*

*"We provided the client with a replicable, high quality infrastructure that will serve the needs of their business now and is future proofed for the coming years."*