Network Installation Solutions Ltd:
NCC Group – XYZ Building, Manchester

Site Address:

XYZ Building, 2 Hardman Boulevard, Manchester M3 3AQ.

About the Project:

The project was undertaken on behalf of the NCC Group, the cyber security and risk mitigation specialists.

In addition to managing the data installation element of the project, it also had a remit to manage numerous trades including the electrical contractors, mechanical specialists, door access & CCTV installers, furniture installers and many others.

From project inception, NIS Ltd had remained entirely involved with the design process, attending several site meetings to offer specialist input with the selection of.

- Required cable manufacturer / grade
- Data outlet quantities
- Containment requirements
- Data cabinet manufacturer / Hot aisle containment design requirements

Installation Overview:

The project had a requirement for the installation of a new CAT6A FTP shielded data network infrastructure across the Second, Third and Fourth Floors within the XYZ building to be occupied by NCC. To facilitate this new infrastructure, NCC would house its main Server Room upon the Fourth Floor. Upon each floor, including the Fourth, two designated Patch Rooms were being provided at either side of the building to accommodate the new cabling (6 x patch rooms in total). New OM4 fibre links would be run

from the Patch Rooms to the dedicated Server Room upon the Fourth Floor. The following details the works undertaken.

-   Supply and installation of 14 x 47U 600mm x 1150mm Orion floorstanding cabinets within the Fourth Floor Server Room.
-   Supply and installation of 2 x 47U 800mm x 1150mm Orion floorstanding cabinets within the Fourth Floor Server Room to act as the two "Core Network Racks".
-   Supply and installation of 6 x 47U 800mm x 1000mm Orion floorstanding cabinets within the Patch Room locations, one cabinet per Patch Room.
-   Supply and installation of a new Hot Aisle Containment Solution for the New Server Room
-   Supply and installation of 42 x 12-way intelligent PDU units complete with 8 x C13 sockets, 4 x 13A sockets, 32A Commando plugs and intelligent IP Monitoring capacity.
-   Supply and installation of 2 x 24 core OM4 fibre links from each Patch Room location to the Main Server Room upon the Fourth Floor, diversely routed, terminating within each of the 2 x Core Network Racks utilising LC presentation.
-   Supply and installation of 1 x 50 pair voice link from the designated rack within the Main Server Room upon the Fourth Floor to an incoming BT DP upon the Ground Floor.
-   Supply and installation of over 400 x 4 way and 200 x 6-way POD boxes for the provision of the new data outlets.
-   Supply and installation of 5m lengths of flexible conduit from each newly installed POD box for the provision of the new cabling infrastructure.
-   Supply and installation of new cable matting at designated locations across all three floors for the provision of the new cabling infrastructure.
-   Supply and installation of over 2000 x CAT6A FTP shielded cabling and outlets to customer's specified locations across the three floors, which carried the provision for Standard Data Outlets, Security, Audio Visual Equipment, Wi-Fi Equipment.
-   Supply and installation of all short 0.3m patch leads to serve the Patch Room data patch panels.
-   Supply and installation of all patch leads at various lengths to serve the field data outlets at all locations.