



## PROJECT PROFILE



**Project Name:** New Global Headquarters  
**Project Location:** Naperville, Illinois  
**Project Type:** Cable Infrastructure Installation

Tellabs Global Headquarters, located in Naperville, Illinois, consists of two similar 5-story towers connected by a common link. The total building size is 880,000 square feet consisting of offices, labs, an 8,400 square foot Data Center, and a Network Operations Center. The installation is an Avaya SYSTIMAX solution and based on standards developed by Tellabs and Technical Design Services (consultant). This included copper and fiber optic backbone cabling to each Telecommunications Room (TR) and horizontal station cabling routed along an overhead cable tray system throughout the facility. The building consists of twenty TR's plus the Data Center in the West Tower and an Intermediate Closet (IC) in the East Tower. A total of 320 equipment racks were installed in all the closets and data center (excluding labs) and approximately 3,500 feet of cable runway was installed in the closets and data center (excluding labs).



### Backbone Cabling System:

The backbone cabling installation for this facility incorporates the distribution of voice/data services. The Data Center in one tower and the IC in the other tower are connected via 72-strands of multimode and 24-strands of singlemode fiber and 1,800 pairs of copper backbone cabling. These two closets serve as the central termination location for all backbone cabling. From each of the Telecommunications Rooms in the respective towers backbones consisting of the 24-strands of multimode fiber optic cable, 12-strands of singlemode fiber optic cable, and 900-pairs of copper cables were installed. The building boasts over 19,200 pairs of copper backbone and over a mile each of 12-strand singlemode and 24-strand multimode fiber optic cable with over 1,500 fiber terminations for the building backbone

### Horizontal Cabling System:

The horizontal cabling portion is made up of over 5,000 Data / Voice drop locations. Each workstation outlet (WO) consists of three Avaya 2071 4-pair category 6 GigaSPEED cables, terminated in Avaya MGS300 RJ-45 style jacks designated for one voice and two data connections. Over 3,500,000 feet of 4-pair category 6 rated cable is installed. All workstation cabling is routed through the ceiling utilizing over 10,000 feet of cable tray back to the Telecommunications Rooms.

