

## AFL Cabling Network Infrastructure for State-of-the-Art Teaching and Research Facility

### Summary

AFL was selected from a group of pre-qualified contractors to install the communications infrastructure for the Interdisciplinary Science Teaching and Research Facility (ISA) located on the University of South Florida (USF) campus. The ISA facility was designed for theoretical study, experimentation and cutting-edge scientific research.

### Challenge

At eight-stories tall, the state-of-the-art facility is the largest on campus, housing laboratories, classrooms and two 300-seat auditoriums. Due to the various technologies implemented in the facility and an aggressive schedule, AFL was challenged with providing the installation of a Cat6 structured cable solution to meet USF's deadline.



### Solution

To meet the aggressive deadline, AFL adopted a flexible schedule to assist the USF project management team and general contractor for the coordination of multiple trades to keep the project on track. AFL installed 675,000 feet of Cat6 cable to over 3,500 device locations consisting of work area outlets, wireless access points, cameras and media displays. The facility also houses nine telecommunication rooms in which AFL installed all equipment and interconnected with copper distribution cable, single-mode and 50-micron multimode fiber optic cables. To ensure the installation conformed to industry codes and standards, AFL utilized its staff of BICSI-certified technicians and factory-trained installers, combined with quality inspections from the local AFL BICSI RCDD.

### Results

After 10 years of design and planning at USF, the Interdisciplinary Science Teaching and Research facility opened on schedule with a capacity to serve 15,000 students per semester. At the heart of this state-of-the-art facility is the AFL-installed structured cable system that is the communications pathway which delivers the technology to undergraduate and graduate students. This technology enables students to collaborate in scientific disciplines including physics, biology, chemistry, mathematics and engineering.

