

### Overview

The wiring closet of a school is the heart of all network connectivity for sharing resources such as printers, scanners, data storage and the internet. With more schools adding additional computers with network access in classrooms, the amount of cabling increases. As cabling increases effective organization of all connections becomes vital to ensure troubleshooting and maintenance needs. Using cabling of a specific jacket color can be beneficial in isolating and identifying specific connections, such as network printers, phones and computers. As the number of networked computers increases, the need for additional servers becomes necessary. Additional servers will stretch the limits of available peripherals or inputs on existing KVM switches.



### How do Cables To Go solutions fit into this type of application?

Our product offering can serve multiple solution types. Our selection of Cat5e/6 cabling in a variety of different colors makes it easy to select a unique color identity for all of your connection types. Cable ties and management rack panels offer clutter free organization of network connections for ease of troubleshooting and maintenance. Our 16-port VGA rack mount switch offers an affordable solution for sharing peripherals with multiple servers. Access KVMs remotely by adding our KVM over IP switch solution to your existing KVM switch.

### Wiring Closet Solution Example

A high school has decided to add more computers to their existing computer lab to accommodate the growing number of students in attendance. In addition to the computer lab expansion, the telephone system will be upgraded to VOIP using Cat5e cabling to each classroom and office. The school has 150 phones being upgraded and more than 25 new computers being added.

### Solution Overview

The solution we recommend consists of Cat5e patch cables of two different colors, bulk plenum-rated Cat5e cabling, and Cat5 110-type patch panels. To help differentiate the computer networking and telephone horizontal cabling, two different jacket colors will be used. Segments of blue Cat5e solid plenum rated cabling (#27340), will be run to each jack of the 25 new computers. Segments of white Cat5e solid plenum rated cabling will be run to each jack of the 150 VOIP telephones. Each end of the wiring segment will be punched down to the back of a 48-port Cat5e 110-type patch panel (#03854). Patch cables of the appropriate color and length are used to patch each panel jack to the desired switches.



### **Solution Components**

**Description:** 1ft Cat5E 350 MHz Snagless Patch Cable - Blue  
**Application:** Cable from patch panel to the switch  
**Part Number:** 23828  
**Quantity:** 25



**Description:** 1ft Cat5E 350 MHz Snagless Patch Cable - White  
**Application:** Cable from patch panel to the switch  
**Part Number:** 29952  
**Quantity:** 150



**Description:** 1000ft Cat5E Plenum-rated bulk cable - White  
**Application:** Bulk cable for each phone line  
**Part Number:** 27344  
**Quantity:** Varies by distance and number of connections



**Description:** 1000ft Cat5E Plenum-rated bulk cable - Blue  
**Application:** Bulk cable for each networked computer  
**Part Number:** 27340  
**Quantity:** Varies by distance and number of connections



**Description:** 48-port Cat5E 110-Type Patch Panel  
**Application:** Patch Panel for computers and phones  
**Part Number:** 03854  
**Quantity:** 4



**Note:** The solution described above is one of many connectivity solutions that Cables To Go can provide. For additional information on solutions for your particular application, please contact us.

