

Overview

Surveillance cameras serve as a resource for security and personnel to ensure the safety of patients and staff in healthcare facilities. The rising demand for healthcare service has resulted in the expansion of existing facilities which stretches the limits of surveillance systems already in place. Installing additional cameras in a facility can be difficult since AC power may not be available in all locations. Expanding a surveillance system can also present a challenge with recording video for future playback. Frequent changing of tape media



The development of Power over Ethernet (PoE) technology allows flexible placement of IP surveillance cameras by supplying both power and data using a single Cat5e/6 UTP cable. IP camera systems also offer the benefit of recording video and audio to a hard drive, eliminating the need to frequently change tape media.

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

Cables To Go offers a broad array of network patch cables in different lengths and colors to allow flexible placement and organization of IP surveillance hardware. Bulk 500ft and 1,000ft boxes of Cat5e/6 UTP cable are available in riser and plenum jacket ratings which provide a solution for in-wall connectivity between PoE cameras. Older network switches which lack PoE can be utilized through the use of our PoE injector. Our vast selection of fiber optic jumper cables and custom cable services are ideal for cameras which transmit over optical cable.

Surveillance Solution Example

A hospital has expanded its facility to accommodate additional patients. The expansion now requires additional cameras to be installed in the new sections which stretch the limits of the current surveillance system. To overcome the challenges, IP cameras with PoE will be installed throughout the facility. Unfortunately the network switches provided for the new system do not have PoE capability.



Solution Overview

The solution we recommend is our PoE injector (#29816) connected between each port of the older network switches and each jack of the patch panel (#03854). Patch cables, such as our red 5ft Cat5e (#15190), provide connectivity between each PoE injector and patch panel (#03854) jack. Our red 1ft Cat5e patch cables (#26968) are perfect for connections between the RJ45 jack (#03791 and #03410) and the PoE camera.

Solution Components

Description: Power over Ethernet (PoE) Power Adapter

Application: Injects power into a UTP cable for camera

Part number: 29816

Quantity: 1 for each camera



Description: 5ft Cat5e 350 MHz Snagless Patch Cable - Red

Application: Patch cable from each PoE injector to a patch panel jack

Part number: 15190

Quantity: 1 for each camera



Description: 1ft Cat5e 350 MHz Snagless Patch Cable - Red

Application: Connectivity from each RJ45 jack and camera

Part number: 26968

Quantity: 1 for each camera



Description: 1,000ft Cat5e UTP 350 MHz Solid Plenum-Rated Cable - White

Application: Cabling from patch panel to each camera location

Part number: 27344

Quantity: Varies by distance



Description: 1-Port Single Gang Multimedia Keystone Wall Plate - White

Application: Wall plate for each RJ45 keystone jack

Part number: 03410

Quantity: 1 for each camera



Description: Cat5e RJ45 UTP Keystone Jack - White

Application: RJ45 jack for each camera location

Part number: 03791

Quantity: 1 for each camera



Description: 48-Port Cat5e 110-Type Patch Panel

Application: Central location of all camera cable runs

Part number: 03854

Quantity: Varies by number of cameras



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.

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Application Note - Education Security Application Connectivity Solutions

