Overview

Traditional classroom setups included a few devices for visual aid equipment which was often shared between classrooms. Overhead projectors were used as a low cost means of transmitting notes or graphs from a sheet of transparent material. Film strip projectors with audio tapes for the sound track were used for educational films. Chalk and marker boards were used for the instructor to write notes for the students to follow along.

Modern classroom visual aid devices overcome many of the drawbacks associated with the use of past solutions. However, they do present a challenge for the installation process. Unlike past solutions which only required power to operate, modern devices require cabling to connect devices together such as a computer to a projector. Most educational environments have very few pathways within the structure for the installation of cabling. Pathways that are available may be too small for factory built cabling. This results in the need to run bulk cable and terminate connectors at each end. The process of field termination consumes time and resources and adds risk for error and performance.

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

Applications where conduit is present can benefit from our RapidRun modular cabling solution, which eliminates the need for field termination. RapidRun is factory tested and is backed with a lifetime warranty, resulting in dependable performance. For installations in raceway, such as classroom retrofits, our Classic Series pass-through cabling solution can be used. This product line features low profile connectors for easy installation in surface mount boxes. Our unique round HD15 (VGA) connector installs easily in projector mounting poles. When cabling is not an option, our extensive line of wireless USB solutions provides reliable in room connectivity and easy installation.

Computer Lab Solution Example

A junior high school is updating its classrooms with interactive whiteboards, DVD players and new computers. To interface the computer with the interactive whiteboard, each classroom requires a 35ft run of VGA, 3.5mm audio, composite video and stereo RCA audio. Each classroom has a 1.25 inch conduit for use in running cabling to the whiteboard.

Solution Overview

The solution we recommend is our RapidRun modular cabling system using the integrated wall plate with two keystone bezels, 1.5ft integrated flying lead, 35ft runner cable, USB keystone extender transmitter and a 1-port USB extender receiver dongle. The runner cable will be placed in the available conduit along with the recommended Cat5/6 cable in a path from a wall box near the podium to the electronic white board. The integrated wall plate will be located in a wall box in close proximity to the podium with both keystone bezels occupied by the USB keystone extender transmitter unit. The flying lead and USB receiver will be directly connected to the switch unit of the electronic white board.

Service Through Every Connection

Solution Components

Description: RapidRun Double Gang HD15 + 3.5mm+ RCA A/V and 2 Keystone Wall Plates
Application: Wall plate near the computer work station
Part Number: 42311
Quantity: 1

Description: 35ft RapidRun Plenum-Rated PC Runner Cable
Application: Single Base cable to run VGA, 3.5mm audio, composite video and stereo RCA audio
Part Number: 50730
Quantity: 1

Description: 1.5ft RapidRun HD15 + 3.5mm + Composite Video + Stereo Flying Lead
Application: VGA, 3.5mm audio, composite video and stereo audio breakout that connects to the whiteboard and RapidRun runner.
Part Number: 42323
Quantity: 1

Description: USB Keystone Extender Insert - Transmitter
Application: Provides USB connectivity beyond the 16.4ft length limitation to the interactive whiteboard.
Part Number: 29349
Quantity: 1

Description: 1-Port USB Superbooster Dongle - Receiver
Application: Provides USB connectivity beyond the 16.4ft length limitation to the interactive whiteboard. Attaches directly to the whiteboard.
Part Number: 29353
Quantity: 1

Description: 35ft Cat5E 350 MHz Solid Patch Cable - Blue
Application: Cabling for USB extender units
Part Number: 15162
Quantity: 1

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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