
TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

DIVISION 16 - ELECTRICAL

SECTION 16770 - CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM

PART 2 – PRODUCTS

2.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and utilized in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with the availability of a toll-free (U.S. and Canada) technical support number from the manufacturer. The number shall provide technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.

2.02 Power-Video-Data 16-Channel Cable Integrator Hub

- A. Shall be equipped with one RJ-45 connector for connecting power, video and data to and from power-video-data transceiver at each camera, for up to sixteen cameras.
- B. Shall be compatible with a power-video-data transceiver at each camera. Pinouts shall be:
 - Pin 1: + Video
 - Pin 2: - Video
 - Pin 3: + Data
 - Pin 4: - Power
 - Pin 5: + Power
 - Pin 6: - Data
 - Pin 7: + Power
 - Pin 8: - Power
- C. Shall be compatible with any third-party multi-channel Class 2 power supply to power cameras via UTP.
- D. Shall be used as a cable management solution from the camera to the Wiring Closet and on to the Control Room
- E. Shall deliver up to four video signals to each of up to four RJ-45 jacks for delivery via 4-pair UTP wire to the control room. Pinouts shall be:
 - Pin 1: + Video (Channel 1, 5, 9, or 13)
 - Pin 2: - Video (Channel 1, 5, 9, or 13)
 - Pin 3: + Video (Channel 2, 6, 10, or 14)
 - Pin 4: - Video (Channel 3, 7, 11, or 15)
 - Pin 5: + Video (Channel 3, 7, 11, or 15)
 - Pin 6: - Video (Channel 2, 6, 10, or 14)
 - Pin 7: + Video (Channel 4, 8, 12, or 16)
 - Pin 8: - Video (Channel 4, 8, 12, or 16)

- F. Shall deliver Pan/Tilt/Zoom telemetry signals from the control room to an RJ-45 jack for delivery via UTP wire to the cameras. Pinouts shall be:
 - Pin 1: + Data – Cameras 1-4
 - Pin 2: - Data – Cameras 1-4
 - Pin 3: + Data – Cameras 5-8
 - Pin 4: - Data – Cameras 9-12
 - Pin 5: + Data – Cameras 9-12
 - Pin 6: - Data – Cameras 5-8
 - Pin 7: + Data – Cameras 13-16
 - Pin 8: - Data – Cameras 13-16
- G. Shall be capable of utilizing 24-16 AWG (solid or stranded) UTP wire and shall have screwless terminals for input connection of low voltage power.
- H. The Cable Integrator Hub shall be capable of utilizing Category 2 or better UTP without compromising interference immunity or transmission distances.
- I. The Cable Integrator Hub shall have a weight of 0.94lb (0.43kg).
- J. The Cable Integrator Hub shall have dimensions 19in wide, 1.73in high, 0.8in deep (482mm wide, 44mm high, 21mm deep)
- K. The Cable Integrator Hub shall support rack-mounting.
- L. The Cable Integrator Hub shall be UL and cUL listed.
- M. The Cable Integrator Hub shall be CE compliant.
- N. The Cable Integrator Hub shall be provided with a limited lifetime warranty.
- O. The Power-Video-Data 16-Channel Cable Integrator Hub, shall be the NVT:
 - a. NV-716J-PVD or
 - b. Approved equal