
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 16-Channel Power Supply Cable Integrator Hub

- A. Shall be equipped with one RJ45 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 and comply with standard telecom/datacom structured cabling pinouts per EIA/TIA 568B. Wiring 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 supply up to 1 Amp per channel, 10 amps aggregate.
- D. Shall provide Class 2 SELV camera power and pass-through video and telemetry data connectivity for up to 16 cameras, each via a single RJ45 4-pair UTP cable.
- E. Shall have an individually selectable output (24VAC-OFF-28VAC) for each camera connection.
- F. Shall be powered by 115/230 VAC 50/60 Hz.
- G. Shall have a current draw of up to 2.8Amps / 1.4Amps.
- H. Shall have protection of 5Amp slo-blo 8X20mm fuse & thermal shutdown.
- I. Shall require a minimum airflow of 4ft³/min (0.1m³/min).
- J. Shall have a wattage rating of 325 Watts.
- K. Shall operate with ambient temperature range of 0 to + 140° F (-20 to + 50°C).

- L. Shall operate within a humidity (non-condensing) of 1 to 95%.
- M. Shall have 16 individually floating outputs ensuring total ground-loop immunity.
- N. Shall have transient immunity per ANSI 587 C62.41.
- O. Shall have per-channel automatic-reset fault protection.
- P. Shall have per-channel independent diagnostic LEDs showing load/no load, miswires and overload conditions as follows:
 - LED Off = No load connected
 - LED Green = Load detected
 - LED Amber = Mis-wire detected
 - LED Red = Overload shutdown condition
- Q. Shall be wall, desk or 19in rack mountable.
- R. Shall be used as a cable management solution from the camera to the Wiring Closet and on to the Control Room.
- S. Shall deliver up to four video signals to each of up to four RJ45 jacks for delivery via 4-pair UTP wire to the control room. Pinouts shall be:
 - Pin 1: + Video (Channel 2, 6, 10, or 14)
 - Pin 2: - Video (Channel 2, 6, 10, or 14)
 - Pin 3: + Video (Channel 3, 7, 11, or 15)
 - Pin 4: - Video (Channel 1, 5, 9, or 13)
 - Pin 5: + Video (Channel 1, 5, 9, or 13)
 - Pin 6: - Video (Channel 3, 7, 11, or 15)
 - Pin 7: + Video (Channel 4, 8, 12, or 16)
 - Pin 8: - Video (Channel 4, 8, 12, or 16)
- T. Shall deliver Pan/Tilt/Zoom telemetry signals from the control room to an RJ45 jack for delivery via UTP wire to the cameras. Pinouts shall be:
 - Pin 1: + Data – Cameras 5-8
 - Pin 2: - Data – Cameras 5-8
 - Pin 3: + Data – Cameras 9-12
 - Pin 4: - Data – Cameras 1-4
 - Pin 5: + Data – Cameras 1-4
 - Pin 6: - Data – Cameras 9-12
 - Pin 7: + Data – Cameras 13-16
 - Pin 8: - Data – Cameras 13-16
- U. Shall support Cat 5 or better UTP.
- V. Shall have a weight of 22lb (10kg).
- W. Shall have dimensions 19in wide, 1.73in high, 12in deep (483mm wide, 44mm high, 305mm deep).
- X. Shall be UL and cUL listed.
- Y. Shall be CE compliant.

Z. Shall be RoHs compliant.

AA. Shall be WEEE compliant.

BB. Shall be provided with a limited lifetime warranty.

CC. Shall be the NVT: NV-16PS10-PVD or approved equal.