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 UNSHIELDED TWISTED-PAIR VIDEO TRANSCEIVER HUB, 16-PORT PASSIVE

A. The 16-Port Passive Video Transceiver Hub device shall be capable of transmitting or receiving up to sixteen baseband monochrome or color video signals over unshielded twisted-pair (UTP) telephone wire up to a distance of 750 feet (225 m) without requiring power at either end.

B. The transmitting device shall accept a baseband video signal, each from a 75-ohm source.

C. The receiving device shall deliver a baseband video signal, each capable of driving a 75-ohm load.

D. “Up the Coax” Pan/Tilt/Zoom controls shall be supported.

E. The transceiver shall have built-in transient protection, with earth-ground screw connection.

F. Distances up to 3,000 feet (1,000 m) shall be supported when used in conjunction with a NVT DigitalEQ™ Hub or amplified (active) receiver. Distances up to 1,500 feet (460 m) shall be supported by any NVT StubEQ™ Hub.

G. The transceiver shall be equipped with RJ45 video inputs. The transceiver shall be packaged with four RJ45 to Screw Terminal Adaptors for an alternate choice video input termination.

H. The transceiver shall be equipped with female BNC for 75-ohm output connections.

I. The transceiver shall have the ability to operate in the same wire bundle as telephone, data, low voltage power, or other video signals.

J. The transceiver shall meet or exceed the following design and performance specifications:
   a. Have typical common-mode rejection of 60 dB between the frequencies of 15 KHz to 5 MHz.
   b. The transceiver shall have a frequency response from DC to 5 MHz.
   c. The transceiver shall have a typical attenuation of 0.5 dB.
   d. The transceiver shall provide transient immunity as per ANSI/IEEE 587C62.41.
UNSHIELDED TWISTED-PAIR VIDEO TRANSCEIVER HUB, 16-PORT PASSIVE (SCREW TERMINAL/RJ45 INPUT)

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e. The transceiver shall be for indoor use or for use in an environmental enclosure and allow a maximum operating temperature range of –20 to 75 degrees Celsius.

K. The transceiver shall be capable of utilizing 24-16 AWG (solid or stranded) UTP wire.

L. The transceiver shall be capable of utilizing Category 2 or better UTP without compromising interference immunity or transmission distances.

M. The transceiver shall have a weight of 4.30 lbs (1.95 kg).

N. The receiving device shall have dimensions of 17” wide, 1.7” (1RU) high, 8.125” deep (43 cm x 4.5 cm x 20 cm).

O. The transceiver shall be packaged with “L” brackets to support the front or rear rail rack mounting, or wall mounting; and rubber feet to support desk mount applications.

P. The transceiver shall be packaged with sixteen 2-ft (60 cm) coax jumper cables.

Q. The transceiver shall be UL and CUL listed.

R. The transceiver shall be CE compliant.

S. The transceiver shall be provided with a limited lifetime warranty.

T. The Unshielded Twisted-Pair Video Transceiver Hub, 16-Port Passive shall be the NVT:
   a. NV-1613 or
   b. Approved equal