

**UNSHIELDED TWISTED PAIR CROSSOVER & DISTRIBUTION CARD CAGE - TYPE CX452
FOR PLUG-IN CARDS – CHM16, CHM22, CXM16 & CXM22**

TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

DIVISION 16 – ELECTRICAL

SECTION 16 ___ - CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM

PART 2 – PRODUCTS

2.1 GENERAL

- 2.1.1 All equipment to be supplied under this specification shall be new and the current model of a standard product of an OEM of record. An OEM of record shall be defined as a company whose main occupation is the manufacture for sale of the equipment supplied and which:
- A. Maintains a factory production line for the item submitted.
 - B. Maintains a stock of replacement parts for the item submitted.
 - C. Maintains engineering drawings, specifications, and operating manuals for the items submitted.
 - D. Has published and distributed descriptive literature and equipment specifications on the items of equipment submitted.
- 2.1.2 Specifications of equipment as set forth herein are salient and minimum requirements, unless otherwise stated and shall not be construed as limiting the overall quality, quantity or performance characteristics of items furnished.
- 2.1.3 Systems and components shall have been thoroughly tested and proven in actual use.
- 2.1.4 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

2.2 SPECIFICATIONS

- 2.2.1 The Unshielded Twisted Pair Crossover and Distribution Card Cage (Card Cage Assembly) shall be a NITEK Model CX452 or approved equivalent and shall provide card slides, plug-in means and a Mother Board arrangement for power, video and RS422 connections to up to five (5) of the NITEK Model CHM16, CHM22, CXM16 and/or CXM22 Video Network Cards or approved equivalent, in any combination.
- 2.2.2 The Card Cage Assembly shall be One Rack Unit high (1 RU) and shall provide for horizontal mounting of the Cards specified in paragraph 2.2.1.
- 2.2.3 The Card Cage Assembly shall be compatible with and shall receive supply voltage from a NITEK Model PS105 or PS110 (or approved equivalent) Power Supply.
- 2.2.4 The Card Cage Assembly shall provide a fifty (50) pin "Telco" type connector for connection of video signals and RS422 to the Copper Backbone cabling.
- 2.2.5 The Card Cage Assembly shall provide a means to receive a single RS422 data signal for distribution to up to five (5) Network Cards (equipped for RS422).
- 2.2.6 The Card Cage Assembly shall be designed to be compatible with the TIA/EIA 568B standards for structured cabling systems.

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2.2 SPECIFICATIONS (continued)

- 2.2.7 Video output signal outputs and RS422 input to the Card Cage Assembly shall be over a single 25 pair, Category 3 or better, 24 gage or heavier, unshielded twisted pair cable. up to a maximum cable length of 3,000 feet (900 meters). Maximum length of this cable shall be determined by the UTP Video Receiver types to be used at the “Head-End”. Connection of this cable to the Card Cage Assembly shall be by means of a fifty (50) pin Telco type connector.
- 2.2.8 The Card Cage Assembly shall be capable of interconnecting baseband type monochrome or color video and/or RS422 data signals without causing interference or interfering with any other base band video, communication, data and/or other low-voltage signals
- 2.2.9 The Crossover Unit shall be covered by a Limited Two Year Warranty.