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## Section 16200

### 600 Volt Wire

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#### Part One: General

##### 1.1 General Requirements

###### 1.1.1 Provisions

The provisions of Section 16000, General Requirements for Electrical Work apply to the work of this section.

##### 1.2 Applicable Codes and Standards

###### 1.2.1 Products

Products shall comply with the following codes and standards and shall be UL-listed and labeled:

ASTM B-3	Soft or Annealed Copper Wire
ASTM B-8	Concentric Lay Stranded Copper Conductors
NEMA WC-5	Thermoplastic Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy.
NEMA WC-7	Cross-Linked Thermosetting Polyethylene Insulated Wire for the Transmission and Distribution of Electrical Energy
UL 44	Rubber Insulated Wires and Cables
UL 62	Flexible Cord and Fixture Wire
UL 83	Thermoplastic Insulated Wires and Cables

##### 1.3 Submittals Required

###### 1.3.1 Data Sheets

Manufacturer's product data sheets.

##### 1.4 Manufacturers

Subject to compliance with the Specification Requirements:

- Anixter
- General Cable
- Rome Cable
- Approved Equal

#### Part Two: Products

##### 2.1 General

###### 2.1.1 Conductors

All conductors shall be annealed copper in accordance with ASTM B-3.

###### 2.1.2 Jacket

The jacket of all wire shall be printed with the following information:

- Manufacturer
- Size
- Insulation type
- Maximum voltage

- UL label

### **2.1.3 Insulation**

All insulation shall be rated 600 for volts.

## **2.2 Power Wiring**

### **2.2.1 Feeders and Motor Branch Circuits**

Feeders and motor branch circuits shall be type THHN/THWN.

### **2.2.3 Description**

All power wiring shall be stranded, Class B strand in accordance with ASTM B-8, minimum size #12 AWG.

## **2.3 Lighting and Receptacle Branch Circuits**

### **2.3.1 Description**

All lighting and convenience receptacle branch circuit wiring shall be type THHN/THWN, solid or stranded conductor, minimum size #12 AWG.

## **2.4 Control Wiring**

### **2.4.1 Description**

Wiring for control circuits shall be THHN/THWN stranded, with Class B strand in accordance with ASTM B-8, minimum size #14 AWG.

## **2.5 Fixture Wire**

### **2.5.1 Description**

Where high temperature fixture wire is required it shall be silicone rubber type SF-2.

## **Part Three: Execution**

### **3.1 General**

#### **3.1.1 Installation**

All wire shall be installed in accordance with manufacturer's instructions.

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## **End of Section 16200**

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