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GUIDE HOW TO SPECIFY CABLE In the  
absence of your own cable specification,  
the following checklist will assist you to

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completely specify the cable you want:  
A. Number and gauge of conductors.

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Classified, or Verified wire and cable  
(see Appendix A for designations). c)  
Focuses on the information contained in  
UL Certified, Listed, Classified, or  
Verified wire and cable product markings  
(what the markings mean, where they  
may be located, etc.). This guide does  
not address wire and cable evaluated  
only for suitability as factory-installed

## **Wire and Cable - UL Code Authorities**

Final Design Guidelines DESIGN  
GUIDELINES FOR WIRE MESH/CABLE NET  
SLOPE PROTECTION Balasingam  
Muhunthan Shanzhi Shu Navaratnarajah  
Sasiharan Omar A. Hattamleh  
Department of Civil and Environmental  
Engineering Washington State University  
Pullman, Washington 99164-2910

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Thomas C. Badger and Steve M. Lowell

## **Design Guidelines for Wire Mesh/Cable Net Slope Protection**

The UL Category Code for each wire and cable category is identified in Tables 1, 2, and 3 of this Marking Guide. 1. HOW TO USE THIS GUIDE The wire and cable types covered in this guide have been divided into three tables as follows:  
Table 1 — Building Wires and Cables, including some industrial cables

## **Wire and Cable - UL**

CABLE AND HARNESS GENERAL REQUIREMENTS (cont.) PREFERRED. CONNECTOR STYLE. Connectors shall be straight, right-angle or flange-mount. The use of right-angle connectors shall be minimized and restricted to applications where stress-free mounting of the cable assembly can be assured.

## **CABLE AND HARNESS GENERAL REQUIREMENTS**

120/240 volt, 3 wire, single phase

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service-entrance conductors, service lateral conductors and feeder conductors that serve as the main power feeder to a dwelling unit and are installed in raceway or cable with or without an equipment grounding conductor. For application of this section, the main

## **National Electrical Code Allowable ... - USA Wire & Cable**

conducting wire. The larger the AWG number or wire gauge, the smaller the physical size of the wire. The smallest AWG size is 40 and the largest is 0000 (4/0). AWG general rules of thumb - for every 6 gauge decrease, the wire diameter doubles and for every 3 gauge decrease, the cross sectional area doubles. Note - W&M Wire Gauge, US Steel Wire

## **American Wire Gauge Conductor Size Table**

Wire size: Use 14-gauge wire for 15-amp circuits and 12-gauge wire for 20-amp

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circuits. Cable runs longer than 500 feet may need larger wire. Cable runs longer than 500 feet may need larger wire. Consult your building department.

### **Everything You Need to Know About Electrical Code ...**

Advantages of wire suspension bridges were quickly recognized by two designers, Charles Ellet and John A. Roebling. Ellet built a large, unstiffened, wire-cable suspension bridge over the Schuylkill River near Philadelphia in 1842. In 1848, Ellet spanned the Niagara River with a

### **Introduction to Cable Suspension Bridges**

DH-485 cables must be made of a cable from the approved-vendor list in publication 1770-6.2.2. Raceway Layout ... Use a wire brush to remove paint from threads to allow a ground connection. Scrape paint on panel and ... For example, for U.S. installations, the National Electrical Code (NEC) gives you

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the requirements for safe bonding and grounding,

## **1770-4.1, Industrial Automation Wiring and Grounding ...**

Electrical wire sizes & gauges: These Tables of Electrical Service Entry Cable Sizes, Electrical Circuit Wire Diameters, Circuit Ampacity, Allowable Voltage Drop, & Wire Size Increase based on Run Length assist in determining the electrical service size or other required electrical wire sizes at buildings.

## **Electrical wire sizes & Diameters: table of Electrical ...**

c) From cable reel to cable tray, the cable is fed from the top of the reel to maintain required curvature. Sheaves, or a shoe, may be used to guide the cable into the tray. Figure F-3 Cable Feed into Cable Tray d) Cable sheaves or a shoe may be used to guide cable into the desired direction, maintain minimum bend radius, and reduce friction.



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## **POWER CABLE INSTALLATION GUIDE - Wire and Cable ...**

wire placement and installation a. nm cable must be secured by staples, designed and installed so as not to damage the cable, every 54". b. a staple must be installed no further than 12" from a metal box with nm cable clamps or 8" from a plastic box without clamps. c. nm cable bends must not be sharper than 5 times the diameter of the cable.

## **ILLUSTRATED RESIDENTIAL ELECTRICAL CODE REQUIREMENTS**

Preform Line Products Safety guy-wire dispenser is designed to provide safe, easy, completely controlled handling and paying-out of strand coils up to 500 ft in length, including EHS strand. It also can be used with wire, wire rope, cable, conductor, etc. Eliminate weight lifting, handling struggle, and the hazards of "runaway" coil ends.

## **Guy Strand - Guy Wire - Pole Line Hardware**

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Armored cable is an electrical wiring solution where the ground, the neutral, and the Hot wires are encased in a flexible metal sheathing. It is much more durable and damage resistant than nonmetallic or Romex wire and is approved for use in many more types of construction applications.

## **Working with Armored Cable: Dos and Don'ts | DoltYourself.com**

2011 edition of the National Electrical Code®, although the recommendations will not be materially affected. This document is not intended to be a comprehensive design guide. 1.2 Excluded This document does not cover aluminum, or mixed metal building wire and cable in residential, commercial, institutional, and industrial applications.

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