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CABLE DESIGNERS

GUIDE HOW TO

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

completely specify the cable you want: A.

Number and gauge of conductors.

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Page 5/26

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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

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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

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Shanzhi Shu

Navaratnarajah

Sasiharan Omar A.

Hattamleh Department

of Civil and

Environmental

Engineering

Washington State

University Pullman,

Washington

99164-2910 Thomas C.

Badger and Steve M.

Lowell

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

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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

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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

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**HARNESSES GENERAL
REQUIREMENTS**

120/240 volt, 3 wire, single phase 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

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

conducting wire. The larger the AWG number or wire guage, 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

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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 circuits. Cable
runs longer than 500
feet may need larger
wire. Cable runs longer
than 500 feet may

File Type PDF Cable Designers Guide National 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

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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.

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Scrape paint on panel and... For example, for U.S. installations, the National Electrical Code (NEC) gives you 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

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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

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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.

POWER CABLE INSTALLATION

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**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

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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

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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

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

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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

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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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