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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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Classified, or Verified
wire and cable (see
Appendix A for
designations). c)
Focuses on the
information contained

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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

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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 Thomas C.

Badger and Steve M.

Lowell

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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

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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

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be assured.

CABLE AND HARNESS 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

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conductor. For application of this section, the main

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

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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 circuits. Cable runs longer than 500

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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,

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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

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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 the requirements for safe bonding and grounding,

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

Electrical wire sizes & gauges: These Tables

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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 ...**

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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

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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

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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

Armored cable is an
electrical wiring
solution where the
ground, the neutral,

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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

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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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