

Changes in the

2008

National Electrical Code

by

Jim Daly

General Cable

2008 NEC Revisions

20 Code Panels

3,700 Proposals (4,500)

3,200 Comments (2,400)

Nonshielded Cable

Limited to 2400 Volts

in all NEC Applications

Table 310.13(D)

Thickness of Insulation and Jacket Rated 2400 Volts

Over 1000 kcmil – 2000 kcmil

310.4(E)

Conductors in Parallel

**Sectioned equipment grounding
conductors smaller than 1/0 AWG added**

310.13

Conductor Construction

**Sectioned equipment grounding
conductors added**

National Electrical Safety Code

90.2(A)(2) – Covered Installations

**Yards, lots, parking lots, carnivals,
and industrial substations**

National Electrical Safety Code

90.2(A)(2) FPN removed:

For additional information concerning such installations in an industrial or multibuilding complex, see ANSI C2-2002, *National Electrical Safety Code*.

Table 310.15(B)(2)(c)

**Ambient Temperature Adjustment for
Conduits Exposed to Sunlight On or
Above Rooftops**

Table 310.15(B)(2)(c)

Distance Above Roof to Bottom of Conduit	Temperature Adder	
	°C	°F
0 – 1/2 in.	33	60
> 1/2 in. – 3 1/2 in.	22	40
> 3 1/2 in. – 12 in.	17	30
> 12 in. – 36 in.	14	25

Table 310.15(B)(2)(c)

Average Ambient Temperatures

ASHRAE Handbook – *Fundamentals*

CDA – www.copper.org

Type MC Metal-Clad Cable

330.10(A)(1)(c) Uses Permitted

In wet locations:

Conductors listed for wet locations

and

Corrosion-resistant jacket is

provided over the metallic sheath

Type MC & Type TC

Nickel or Nickel Coated Copper Conductors

MC – 330.104

TC – 336.104

Type TC-ER Cable

6 ft Unsupported Transition between:

Cable trays

**Cable trays and utilization
equipment or devices**

Cable Tray Splices

392(A)

Splices shall be permitted to project above the side rails where not subject to physical damage.

Table 300.50

Medium Voltage – Minimum Cover

Industrials

Reduce burial depth 6 in. for each 2 in. of concrete or equivalent placed over direct buried cables or rigid nonmetallic conduit.

General

334.80 NM Cable

Where more than two NM cables are installed in contact with thermal insulation without maintaining spacing between cables, the allowable ampacity of each conductor shall be adjusted in accordance with Table 310.15(B)(2)(a).

Concealable Nonmetallic Extensions

Article 382

Electrified Truck Parking Spaces

Article 626

Electrical Conductors & Equipment and Installation Requirements

Critical Operations Power Systems (COPS)

Article 708

**Includes requirements for circuit
wiring and protection against physical
damage**

NFPA Annual Meeting

NITMAM

Notice of Intent To Make A Motion

Standards Council Appeals

15 Appeals

14 Denied

NFPA 13 FPN

FPN: See 8.14.1 of NFPA 13 (2002), *Installation of Sprinkler Systems*, for requirements for sprinklers in concealed spaces containing exposed combustibles.

NFPA 13 FPN

Plenum Installations

Article 770 – Optical Fiber Cables

Article 800 – Communications Circuits

Article 820 - CATV

Code Errata

Table 310.15(B)(2)(a)

Table B.310.11

**Adjustment Factors for More Than
Three Current-Carrying Conductors in
a Raceway or Cable**

Code Errata

Table 310.15(B)(2)(a)

Column Heading

**Number of Current-Carrying
Conductors**

Total Number of Conductors

2011 Code

Deadline for Receipt of Proposals

November 7, 2008

5:00 EST

2011 Code

NFPA/CSA NEC/CEC

Ampacity Harmonization Task Group

2011 Code

Tables 310.16 & 310.17 Ampacities

75°C – same in NEC and CEC

$$I' = \sqrt{\frac{T_c' - T_a - \Delta T_d'}{T_c - T_a - \Delta T_d}} * \frac{\tau_c + T_c}{\tau_c + T_c'} * I$$

2011 Code

Ambient Temperature Correction Factors

2011 Code

Underground Ampacities

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