

Collector rings, 675.11
 Conductors, 675.9
 Derating of, 675.5
 Current ratings, equivalent, 675.7
 Definitions, 675.2
 Disconnecting means, 675.8
 Grounding, 675.12, 675.13
 Irrigation cable, 675.4
 Lightning protection, 675.15
 Marking, 675.6
 Motors on branch circuit, 675.10
 Supply source, more than one, 675.16

Isolated
 Arcing parts, 110.18
 Circuits, low voltage, 517.64(C)
 Definition, Art. 100-I
 Equipment grounding conductor, 250.146 FPN
 Phase installations, 300.5(I) Ex. 2
 Power systems, 517.160, 517-VII
 Definition, 517.2
 Essential electrical systems, 517.30(C)(2)
 Grounding, 517.19(F), 647.7(B)
 Installation, 517.160(A)

Isolating means, over 600 volts, 490.22

Isolating switches. *see* Switches, isolating

Isolation by elevation
 Circuits over 600 volts, 110.34(E)
 Circuits under 600 volts, 110.27(A)
 Resistors and reactors over 600 volts, 470.18(B)

Isolation equipment, systems (motors), 430.109(A)(7)
 Definition, 430.2

Isolation transformer. *see* Transformers, Isolation

-J-

Joints. *see also* Splices and taps
 Expansion. *see* Expansion joints
 Grounding electrode conductor, 250.64(C)
 High density polyethylene conduit, 353.48
 Insulating, fixtures, 410.16(E)
 Insulation of, 110.14(B)
 Strain at, 400.10

Joists
 Air-handling, space, 300.22(C) Ex.
 Armored cable, 320.23(A)
 Concealed knob-and-tube wiring, 394.23
 Electric space heating cables, 424.41(J)
 Holes through or notches in, 300.4(A)
 Nonmetallic sheathed cable, 334.15(C)

Open wiring, crossing, 398.15(C)
 Parallel to framing members, cables and raceways, 300.4(D)

Jumpers, bonding, 250.28, 250.102, 250.168
 Definition, Art. 100-I
 Equipment, 250.102
 Definition, Art. 100-I
 Size, 250.30(A)(2)
 Expansion joints, telescoping sections of raceways, 250.98
 Grounding electrode system, 250.53(C), 250.64(C)(3)
 Grounding-type receptacles, 250.146
 Hazardous (classified) locations, 250.100, 501.30(A), 502.30(A), 503.30(A)
 Health care facilities, 517.19(C) and (D)
 Main, 250.24(B)
 Definition, Art. 100-I
 Wire or busbar, as, 250.24(A)(4)
 Metal, structural, 250.104(C)
 Network-powered broadband communications system, 830.100(D)
 Piping systems, 250.104
 Separately derived systems, 250.30(A)
 Service equipment, 250.28, 250.92(B), 250.102(C)

Junction boxes. *see also* Boxes; Pull boxes
 Accessibility, 314.29
 Cellular concrete floor raceways, 372.7
 Cellular metal floor raceways, 374.9
 Covers, 314.28(C), 314.72(E)
 Deicing and snow-melting cables, 426.22(E), 426.24(B)
 Motor controllers and disconnects, 430.10(A)
 Nonheating cable leads, 424.43
 Over 600 volts, 314-IV
 Sensitive electronic equipment, 647.4(B)
 Separation from motors, 430.245(B)
 Size
 Conductors 4 AWG and larger, 314.16, 314.28(A)
 Conductors 6 AWG and smaller, 314.16(C)(1)
 Construction specifications, 314-III
 Supports, 314.23
 Swimming pools, 680.23(C), 680.24
 Switch enclosures, 110.59, 312.8, 404.3(B)
 Underfloor raceways, 390.13

-K-

Kitchen equipment, commercial, 220.56

Knife switches
 Butt contacts, 404.6(C)
 Connection, 404.6(C)
 Construction specifications, 404-II
 Enclosures, 404.3
 General-use, 404.13(C)
 Interrupt current, 404.13(B)
 Isolating, 404.13(A)
 Motor-circuit, 404.13(D)
 Position, enclosed and open types, 404.6
 Ratings, 404.14
 600-volt, 404.16

Knob-and-tube wiring, Art. 394
 Accessible attics, 394.23
 Clearances, 394.19
 Conductors, 394.104
 Definition, 394.2
 Devices, 394.42
 Installation, 394-II
 Securing and supporting, 394.30
 Splices and taps, 394.56
 Through or parallel to framing members, 394.17
 Uses not permitted, 394.12
 Uses permitted, 394.10

Knockouts
 Bonding
 Over 250 volts, 250.97 Ex.
 Service equipment, 250.92(B)
 Openings to be closed, 110.12(A), 314.17(A)

-L-

Labeled
 Definition, Art. 100-I

Labels required, 550.20(B), 550.32(G), 551.46(D), 551.47(Q)(3), 551.47(R)(4), 552.44(D), 552.48(P)(3), 552.59(B). *see also* Warning signs (labels), at equipment

Lacquers and paints
 Application, Art. 516
 Atmospheres, 500.5(B), 500.6(A), Art. 501, 505.5(B), Art. 505

Lampholders
 Branch circuits supplying, 210.23
 Circuits less than 50 volts, 720.5
 Construction, 410-IX
 Damp or wet locations, 410.4(A), 410.49
 Double-pole switched, 410.48
 Heavy-duty. *see* Heavy-duty lampholders
 Infrared lamps, 422.14
 Installation, 410-VIII
 Mogul base. *see* Mogul base lampholders
 Outdoor, 225.24
 Pendant
 Bathrooms, 410.4(D)

Not in clothes closets, 410.8(C)
 Not in theater dressing rooms, 520.71
 Screw-shell types for lamps only, 410.47
 Unswitched over combustible material, 410.6

Lamps, Art. 410. *see also* Luminaires (lighting fixtures); Hazardous (classified) locations
 Arc. *see* Arc lamps, portable
 Backstage (bare bulb), 520.47
 Clothes closets, in, 410.8
 Electric discharge, 410.30(C), 410.54, 410-XIII, 410-XIV
 Electric discharge, enclosure, 410.54(A)
 Fluorescent. *see* Fluorescent luminaires (lighting fixtures)
 Guards. *see* Guarding, guards
 Headlamps. *see* Handlamps, portable
 Incandescent. *see* Incandescent lamps
 Infrared. *see* Infrared lamp industrial heating appliances
 Motion picture projectors, 540.14, 540.20
 Motion picture studios
 Film storage vaults, 530.51
 Stages, portable, 530.16, 530.17
 Viewing, cutting tables, 530.41
 Outdoor, location, 225.25
 Portable. *see* Portable lamps
 Stand
 Definition, 520.2, 530.2
 Theaters
 Border and proscenium, 520.44
 Dressing rooms, lamp guards, 520.72
 Festoons, 520.65
 Footlights, 520.43
 Stage, arc, portable, 520.61
 Switchboards, pilot lights, 520.53(G)
 Wattage marking, flush and recessed luminaires (fixtures), 410.70

Laundry
 Circuit load, 220.52(B)
 Outlets
 Dwelling, 200.14, 210.11(C)(2), 210.50(C), 210.52(F)
 Ground-fault circuit interrupters, 210.8(A)(7)
 Mobile homes, 550.13(D)(7)

Laundry area, 210.52(F), 550.12(C), 550.13(D)(7)
 Definition, 550.2

Leakage current detection and interruption (LCDI) protection, 440.65
 Definition, 440.2