

## Appendix R. Standard reference

Table R1. List of the main references standards

Standard	Description
ANSI C37.20	Switch gear assemblies and metal-enclosed bus
ANSI C80.1	Electrical Rigid Steel Conduit (ERSC)
ANSI C80.3	Steel Electrical Metallic Tubing (EMT)
ANSI C80.6	Electrical Intermediate Metal Conduit (EIMC)
ANSI Z535-4	Product Safety Signs and Labels
ANSI/NFPA 70	National Electrical Code
ANSI/NFPA 79	Electrical Standard for Industrial Machinery
ASTM A123/123M	Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM-D 1000	Standard Test Method for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications
ASTM-D 149	Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies
ASTM-D 150	Standard Test Methods for AC Loss Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulation
ASTM-D 2303	Standard Test Methods for Liquid-Contaminant, Inclined-Plane Tracking and Erosion of Insulating Materials
ASTM-D 257	Standard Test Methods for DC Resistance or Conductance of Insulating Materials
ASTM-D 2671	Standard Test Methods for Heat-Shrinkable Tubing for Electrical Use
ASTM-D 412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension
ASTM-D 570	Standard Test Method for Water Absorption of Plastics
ASTM-D 635	Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position
ASTM-D 638	Standard Test Method for Tensile Properties of Plastics
ASTM-D 792	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
ASTM-E 28	Standard Test Methods for Softening Point of Resins Derived from Naval Stores by Ring-and-Ball Apparatus
ASTM-G 21	Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
ASTM-G 53	Practice for Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials
CEI 15-26	Electrical insulation. Thermal evaluation and designation
CSA C22.2 No. 227.2.1-04	Liquid-Tight Flexible Nonmetallic Conduit
CSA C22.2 No. 227.3-05	Nonmetallic Mechanical Protection Tubing (NMPT)
CSA C22.2 No. 83.1-07	Electrical Metallic Tubing - Steel
CSA C22.2 No.126.1-09	Metal cable tray systems
DIN 40050	Road vehicles; degrees of protection (IP-code); protection against foreign objects; water and contact; electrical equipment
DIN 53474	Testing of plastics, rubber and elastomers - Determination of the chlorine content
EN 60228	Conductors of insulated cables
EN 60243	Electrical Strength of Insulating Materials – Test Methods
EN 60529	Specification for degrees of protection provided by enclosures (IP code)
EN 60707	Flammability of solid non-metallic materials when exposed to flame sources. List of test methods.
EN 61386	Conduit systems for cable management.
EN 61537	Cable management. Cable tray systems and cable ladder systems.
FMVSS 302	Flammability of Interior Materials - Passenger Cars, Multipurpose Passenger Vehicles, Trucks, and Buses
IEC 60684-2	Flexible insulating sleeving
ISO 180/1C	Plastics - Determination of Izod impact strength
ISO 37	Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties
ISO 527	Determination of tensile properties
ISO R 1183	Plastics - Methods for determining the density and relative density (specific gravity) of plastics excluding cellular plastics
ISO R 527	Plastics - Determination of tensile properties
ISO-62	Plastics - Determination of water absorption
NEMA 250	Enclosures for Electrical Equipment (1000 Volts Maximum)
NEMA FB1	Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable
NEMA VE 1	Metal Cable Tray Systems
NEMA VE 2	Cable Tray Installation Guidelines
NEMA WD-6	Locking Plugs and Receptacles
UL 1	Flexible Metal Conduit
UL 1063	Machine-Tool Wires and Cables
UL 1242	Electrical Intermediate Metal Conduit - Steel
UL 1563	Metal-Cald Cables
UL 1581	Reference Standard for Electrical Wires, Cables, and Flexible Cords
UL 1598	Luminaires
UL 1660	Liquid-Tight Flexible Nonmetallic Conduit

Standard	Description
UL 1685	Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables
UL 1696	Nonmetallic Mechanical Protection Tubing (NMPT)
UL 2225	Cables and Cable-Fittings For Use In Hazardous (Classified) Locations
UL 224	Extruded Insulating Tubing
UL 248-4	Low-Voltage Fuses - Part 4: Class CC Fuses
UL 248-6	Low-Voltage Fuses - Part 6: Class H Non-Renewable Fuses
UL 248-8	Low-Voltage Fuses - Part 8: Class J Fuses
UL 248-9	Low-Voltage Fuses - Part 9: Class K Fuses
UL 360	Liquid-Tight Flexible Metal Conduit
UL 4248-12	Fuseholders - Part 12: Class R
UL 4248-4	Fuseholders - Part 4: Class CC
UL 4248-6	Fuseholders - Part 6: Class H
UL 4248-8	Fuseholders - Part 8: Class J
UL 498	Attachment Plugs and Receptacles
UL 50	Enclosures for Electrical Equipment
UL 508	Industrial Control Equipment
UL 508A	Industrial Control Panels
UL 514B	Conduit, Tubing, and Cable Fittings
UL 6	Electrical Rigid Metal Conduit - Steel
UL 758	Appliance Wiring Material
UL 797	Electrical Metallic Tubing - Steel
UL 83	Thermoplastic-Insulated Wires and Cables
UL 886	Outlet Boxes and Fittings for Use in Hazardous (Classified) Locations
UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances
UL 943	Ground-Fault Circuit-Interrupters
UL 969	Marking and Labeling Systems
VDE 0207	Insulating and sheathing compounds for cables and flexible cords; rubber insulating compound
VDE 0295	Conductors of cables, wires and flexible cords for power installation
VDE 0303	Electric strength of insulating materials
VDE 0472	Testing of cables, wires and flexible cords
VG 95343	Heat shrinkable components