

## **IEC NORMAS PUBLICADAS**

**JULHO E AGOSTO DE 2018**

**As normas ISO/IEC já estão relacionadas em normas ISO Publicadas**

### **IEC/TC 9 - Electrical equipment and systems for railways**

IEC 61375-2-6:2018 - Electronic railway equipment - Train communication network (TCN) - Part 2-6: On-board to ground communication

IEC 62995:2018 - Railway applications - Rolling stock - Rules for installation of cabling

### **IEC/TC 10 - Fluids for electrotechnical applications**

IEC 60376:2018 -

Specification of technical grade sulphur hexafluoride (SF<sub>6</sub>) and complementary gases to be used in its mixtures for use in electrical equipment

IEC 62961:2018 PRV - Insulating liquids - Test methods for the determination of interfacial tension of insulating liquids - Determination with the ring method

### **IEC/TC 17 - High-voltage switchgear and controlgear**

IEC 62271-102:2018 - High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches

### **IEC/TC 20 - Electric cables**

IEC 60811-501:2012+AMD1:2018 CSV - Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds

IEC 61238-1-1:2018 - Compression and mechanical connectors for power cables - Part 1-1: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages up to 1 kV (U<sub>m</sub> = 1,2 kV) tested on non-insulated conductors

IEC 61238-1-2:2018 - Compression and mechanical connectors for power cables - Part 1-2: Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV (U<sub>m</sub> = 1,2 kV) tested on insulated conductors

IEC 61238-1-3:2018 - Compression and mechanical connectors for power cables - Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV (U<sub>m</sub> = 1,2 kV) up to 30 kV (U<sub>m</sub> = 36 kV) tested on non-insulated conductors

### **IEC/TC 22 - Power electronic systems and equipment**

IEC 62040-2:2016/ISH1:2018 - Interpretation sheet 1 - Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements

IEC 62477-2:2018 - Safety requirements for power electronic converter systems and equipment - Part 2: Power electronic converters from 1 000 V AC or 1 500 V DC up to 36 kV AC or 54 kV DC

### **IEC/TC 23 - Electrical accessories**

IEC 60320-1/AMD1:2018 PRV - Appliance couplers for household and similar general purposes - Part 1: General requirements

IEC 60320-2-3:2018 - Appliance couplers for household and similar general purposes - Part 2-3: Appliance couplers with a degree of protection higher than IPX0

IEC 60320-2-4:2018 - Appliance couplers for household and similar general purposes - Part 2-4: Couplers dependent on appliance weight for engagement

IEC 60320-3/AMD1:2018 PRV - Appliance couplers for household and similar general purposes - Part 3: Standard sheets and gauges

IEC 61058-2-1:2018 - Switches for appliances - Part 2-1: Particular requirements for cord switches

IEC 62752/AMD1:2018 PRV - In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)

### **IEC/TC 25 - Quantities and units**

IEC 60375:2018 - Conventions concerning electric circuits

### **IEC/TC 29 - Electroacoustics**

IEC 61265:2018 - Electroacoustics - Instruments for measurement of aircraft noise - Performance requirements for systems to measure sound pressure levels in noise certification of aircraft

### **IEC/TC 34 - Lamps and related equipment**

IEC 62386-101:2014+AMD1:2018 CSV - Digital addressable lighting interface - Part 101: General requirements - System components

IEC 62386-221:2018 - Digital addressable lighting interface - Part 221: Particular requirements for control gear - Demand response (device type 20)

IEC 62442-1:2018 RLV - Energy performance of lamp controlgear - Part 1: Controlgear for fluorescent lamps - Method of measurement to determine the total input power of controlgear circuits and the efficiency of controlgear

IEC 62442-2:2018 - Energy performance of lamp controlgear - Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) - Method of measurement to determine the efficiency of controlgear

IEC 62442-3:2018 - Energy performance of lamp controlgear - Part 3: Controlgear for tungsten-halogen lamps and LED light sources - Method of measurement to determine the efficiency of controlgear

IEC 62707-1/AMD1:2018 PRV - LED-binning - Part 1: General requirements and white colour grid

IEC 62776:2014/ISH1:2018 - Interpretation sheet 1 - Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications

IEC TR 63130:2018 - Dimming and hot restrike of metal halide lamps

### **IEC/TC 36 - Insulators**

IEC 61466-2:1998+AMD1:2002+AMD2:2018 CSV - Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V - Part 2: Dimensional and electrical characteristics

### **IEC/TC 40 - Capacitors and resistors for electronic equipment**

IEC 60384-26:2018 RLV - Fixed capacitors for use in electronic equipment - Part 26: Sectional specification - Fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte

IEC 60939-3:2015/COR2:2018 - Corrigendum 2 - Passive filter units for electromagnetic interference suppression - Part 3: Passive filter units for which safety tests are appropriate

### **IEC/TC 45 - Nuclear instrumentation**

IEC 60744:2018 - Nuclear power plants - Instrumentation and control systems important to safety - Safety logic assemblies used in systems performing category A functions: Characteristics and test methods

IEC 60772:2018 - Nuclear power plants - Instrumentation systems important to safety - Electrical penetration assemblies in containment structures

IEC 62808:2015+AMD1:2018 CSV - Nuclear power plants - Instrumentation and control systems important to safety - Design and qualification of isolation devices

IEC 62887:2018 - Nuclear power plants - Instrumentation systems important to safety - Pressure transmitters: Characteristics and test methods

IEC 62945:2018 PRV - Radiation protection instrumentation - Measuring the imaging performance of X-ray computed tomography (CT) security-screening systems

IEC 62988:2018 - Nuclear power plants - Instrumentation and control systems important to safety - Selection and use of wireless devices

### **IEC/TC 46 - Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories**

IEC 62153-4-7:2015+AMD1:2018 CSV - Metallic communication cable test methods - Part 4-7: Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance Z<sub>T</sub> and screening attenuation a<sub>S</sub> or coupling attenuation a<sub>C</sub> of connectors and assemblies up to and above 3 GHz - Triaxial tube in tube method

IEC 62153-4-8:2018 RLV - Metallic cables and other passive components - Test methods - Part 4-8: Electromagnetic compatibility (EMC) - Capacitive coupling admittance

IEC 62153-4-9:2018 RLV - Metallic communication cable test methods - Part 4 - 9: Electromagnetic compatibility (EMC) - Coupling attenuation of screened balanced cables, triaxial method

IEC 62153-4-9:2018 - Metallic communication cable test methods - Part 4 - 9: Electromagnetic compatibility (EMC) - Coupling attenuation of screened balanced cables, triaxial method

### **IEC/TC 47 - Semiconductor devices**

IEC 62435-4:2018 - Electronic components - Long-term storage of electronic semiconductor devices - Part 4: Storage

IEC 62951-3:2018 PRV - Semiconductor devices - Flexible and stretchable semiconductor devices - Part 3: Evaluation of thin film transistor characteristics on flexible substrates under bulging

IEC 62969-3:2018 - Semiconductor devices - Semiconductor interface for automotive vehicles - Part 3: Shock driven piezoelectric energy harvesting for automotive vehicle sensors

IEC 62969-4:2018 - Semiconductor devices - Semiconductor interface for automotive vehicles - Part 4: Evaluation method of data interface for automotive vehicle sensors

### **IEC/TC 48 - Electrical connectors and mechanical structures for electrical and electronic equipment**

IEC 62610-2:2018 - Mechanical structures for electrical and electronic equipment - Thermal management for cabinets in accordance with IEC 60297 and IEC 60917 series - Part 2: Method for the determination of forced air cooling structure

IEC 62946-01:2018 - Connectors for electrical and electronic equipment - Part 01: Rectangular connectors - Detail specification for 8-way, shielded, free and fixed high density connectors for data transmission with frequencies up to 100 MHz and with current carrying capacity up to 1A

### **IEC/TC 49 - Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection**

IEC 61837-2:2018 - Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 2: Ceramic enclosures

### **IEC/TC 51 - Magnetic components, ferrite and magnetic powder materials**

IEC 63093-5:2018 - Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 5: EP-cores and associated parts for use in inductors and transformers

IEC 63093-6:2018 - Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 6: ETD-cores for use in power supplies

IEC 63093-8:2018 - Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 8: E-cores

IEC 63093-11:2018 - Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 11: EC-cores for use in power supply applications

### **IEC/TC 56 - Dependability**

IEC 62853:2018 - Open systems dependability

### **IEC/TC 57 - Power systems management and associated information exchange**

IEC 61850-6:2009+AMD1:2018 CSV - Communication networks and systems for power utility automation - Part 6: Configuration description language for communication in power utility automation systems related to IEDs

IEC 62325-451-6:2018 - Framework for energy market communications - Part 451-6: Publication of information on market, contextual and assembly models for European-style markets

IEC 62351:2018 SER - Power systems management and associated information exchange - Data and communications security - ALL PARTS

IEC 62351-3:2014+AMD1:2018 CSV - Power systems management and associated information exchange - Data and communications security - Part 3: Communication network and system security - Profiles including TCP/IP

### **IEC/TC 59 - Performance of household and similar electrical appliances**

IEC 60705:2010+AMD1:2014+AMD2:2018 CSV - Household microwave ovens - Methods for measuring performance

IEC 60705:2010/AMD2:2018 - Amendment 2 - Household microwave ovens - Methods for measuring performance

### **IEC/TC 61 - Safety of household and similar electrical appliances**

IEC 60335-2-6:2014+AMD1:2018 CSV - Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances

IEC 60335-2-76:2018 - Household and similar electrical appliances - Safety - Part 2-76: Particular requirements for electric fence energizers

### **IEC/TC 62 - Electrical equipment in medical practice**

IEC 60601-2-54:2009+AMD1:2015+AMD2:2018 CSV - Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy

### **IEC/TC 64 - Electrical installations and protection against electric shock**

IEC 60364-7-722:2018 PRV - Low-voltage electrical installations - Part 7-722: Requirements for special installations or locations - Supplies for electric vehicles

IEC 60364-8-2:2018 PRV - Low-voltage electrical installations - Part 8-2: Prosumer's low-voltage electrical installations

### **IEC/TC 65 - Industrial-process measurement, control and automation**

IEC 61987-92:2018 - Industrial-process measurement and control - Data structures and elements in process equipment catalogues - Part 92: Lists of properties (LOP) of measuring equipment for electronic data exchange - Aspect LOPs

IEC 62881:2018 PRV - Cause and Effect Matrix

### **IEC/TC 66 - Safety of measuring, control and laboratory equipment**

IEC 61010-031:2015+AMD1:2018 CSV - Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held and hand-manipulated probe assemblies for electrical test and measurement

### **IEC/TC 68 - Magnetic alloys and steels**

IEC 60404-6:2018 - Magnetic materials - Part 6: Methods of measurement of the magnetic properties of magnetically soft metallic and powder materials at frequencies in the range 20 Hz to 100 kHz by the use of ring specimens

### **IEC/TC 76 - Optical radiation safety and laser equipment**

IEC 60825:2018 SER - Safety of laser products - ALL PARTS

IEC 60825-2:2004/ISH2:2018 - Interpretation sheet 2 - Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS)

### **IEC/TC 77 - Electromagnetic compatibility**

IEC 61000-2-2:2002+AMD1:2017+AMD2:2018 CSV - Electromagnetic compatibility (EMC) - Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems

### **IEC/TC 78 - Live working**

IEC 60900:2018 RLV - Live working - Hand tools for use up to 1 000 V AC and 1 500 V DC

IEC 61482-2:2018 RLV - Live working - Protective clothing against the thermal hazards of an electric arc - Part 2: Requirements

### **IEC/TC 79 - Alarm and electronic security systems**

IEC 62676-5:2018 - Video surveillance systems for use in security applications - Part 5: Data specifications and image quality performance for camera device

### **IEC/TC 80 - Maritime navigation and radiocommunication equipment and systems**

IEC 61162-450:2018 - Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection

IEC 61162-460:2018 - Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 460: Multiple talkers and multiple listeners - Ethernet interconnection - Safety and security

IEC 62923-1:2018 PRV - Maritime navigation and radiocommunication equipment and systems - Bridge alert management - Part 1: Operational and performance requirements, methods of testing and required test results

IEC 62923-2:2018 PRV - Maritime navigation and radiocommunication equipment and systems - Bridge alert management - Part 2: Alert and cluster identifiers and other additional features

### **IEC/TC 82 - Solar photovoltaic energy systems**

IEC 61853-3:2018 PRV - Photovoltaic (PV) module performance testing and energy rating - Part 3: Energy rating of PV modules

IEC 61853-4:2018 PRV - Photovoltaic (PV) module performance testing and energy rating - Part 4: Standard reference climatic profiles

IEC TS 62257-9-5:2018 - Recommendations for renewable energy and hybrid systems for rural electrification - Part 9-5: Integrated systems - Laboratory evaluation of stand-alone renewable energy products for rural electrification

IEC TS 62915:2018 - Photovoltaic (PV) modules - Type approval, design and safety qualification - Retesting

### **IEC/TC 85 - Measuring equipment for electrical and electromagnetic quantities**

IEC 61557-12:2018 PRV - Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 12: Power metering and monitoring devices (PMD)

IEC 62586-2:2017/COR1:2018 - Corrigendum 1 - Power quality measurement in power supply systems - Part 2: Functional tests and uncertainty requirements

### **IEC/TC 86 - Fibre optics**

IEC 60794-1-31:2018 - Optical fibre cables - Part 1-31: Generic specification - Optical cable elements - Optical fibre ribbon

IEC 60794-4:2018 RLV - Optical fibre cables - Part 4: Sectional specification - Aerial optical cables along electrical power lines

IEC 61290-4-4:2018 - Optical amplifiers - Test methods - Part 4-4: Gain transient parameters - Single channel optical amplifiers with gain control

IEC 61755-6-2:2018 - Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 6-2: Connection of 50 µm core diameter multimode physically contacting fibres - Non-angled for reference connector application, at wavelength of 850 nm using selected A1a fibre only

IEC 63032:2018 - Fibre optic interconnecting devices and passive components - Fibre optic tuneable bandpass filters - Generic specification

### **IEC/TC 88 - Wind energy generation systems**

IEC 61400-11:2012+AMD1:2018 CSV - Wind turbines - Part 11: Acoustic noise measurement techniques

### **IEC/TC 89 - Fire hazard testing**

IEC 60695-6-2:2018 - Fire hazard testing - Part 6-2: Smoke obscuration - Summary and relevance of test methods

### **IEC/TC 90 – Superconductivity**

IEC 61788-23:2018 - Superconductivity - Part 23: Residual resistance ratio measurement - Residual resistance ratio of Nb superconductors

IEC 61788-24:2018 - Superconductivity - Part 24: Critical current measurement - Retained critical current after double bending at room temperature of Ag-sheathed Bi-2223 superconducting wires

### **IEC/TC 91 - Electronics assembly technology**

IEC 61189-2-630:2018 - Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 2-630: Test methods for materials for interconnection structures – Moisture absorption after pressure vessel conditioning

### **IEC/TC 94 - All-or-nothing electrical relays**

IEC TR 62246-3:2018 - Reed switches – Part 3: Reliability data for reed switch-devices in typical safety applications

### **IEC/TC 101 - Electrostatics**

IEC 61340-6-1:2018 PRV - Electrostatics - Part 6-1: Electrostatic control for healthcare - General requirements for facilities

### **IEC/TC 104 - Environmental conditions, classification and methods of test**

IEC 60721-2-4:2018 - Classification of environmental conditions - Part 2-4: Environmental conditions appearing in nature - Solar radiation and temperature

### **IEC/TC 106 - Methods for the assessment of electric, magnetic and electromagnetic fields associated with human exposure**

IEC TR 63167:2018 - Assessment of contact current related to human exposure to electric, magnetic and electromagnetic fields

### **IEC/TC 107 - Process management for avionics**

IEC TR 62240-2:2018 - Process management for avionics – Electronic components capability in operation – Part 2: Semiconductor microcircuit lifetime

### **IEC/TC 108 - Safety of electronic equipment within the field of audio/video, information technology and communication technology**

IEC 62368-1:2018 PRV - Audio/video, information and communication technology equipment - Part 1: Safety requirements

### **IEC/TC 109 - Insulation co-ordination for low-voltage equipment**

IEC TS 62993:2017/COR1:2018 - Corrigendum 1 - Guidance for determination of clearances, creepage distances and requirements for solid insulation for equipment with a rated voltage above 1 000 V AC and 1 500 V DC, and up to 2 000 V AC and 3 000 V DC

### **IEC/TC 113 - Nanotechnology for electrotechnical products and systems**

IEC TS 62565-4-2:2018 - Nanomanufacturing - Material specifications - Part 4-2: Luminescent nanomaterials - Detail specification for general lighting and display applications

### **IEC/TC 116 - Safety of motor-operated electric tools**

IEC 62841-4-2:2017/COR1:2018 - Corrigendum 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-2: Particular requirements for hedge trimmers

### **IEC/TC 119 - Printed Electronics**

IEC 62899-202-5:2018 PRV - Printed electronics - Part 202-5: Materials - Conductive ink - Mechanical bending test of a printed conductive layer on an insulating substrate

IEC 62899-203:2018 PRV - Printed Electronics - Part 203: Materials - Semiconductor ink

IEC 62899-302-2:2018 - Printed electronics - Part 302-2: Equipment - Inkjet - Imaging-based measurement of droplet volume

IEC 62899-303-1:2018 - Printed electronics - Part 303-1: Equipment - Roll-to-roll printing - Mechanical dimensions

IEC 62899-403-1:2018 - Printed electronics - Part 403-1: Printability - Requirements for reproducibility - Basic patterns for evaluation of printing machine