

## 1.2 **Non-prescribed products**

In general, electrical products that conform to the safety standards listed below or equivalent standards are deemed to satisfy the applicable safety requirements of the Regulation subject to complying with the "General conditions" requirements stipulated in Schedule 1 of the Regulation and the additional safety requirements [Sections 6 (1) to 6 (8) of the Regulation refer] for particular types of products detailed as follows:

- (A) All electrical products, other than accessories or lighting fittings which do not receive power supply from a mains socket, shall be Class I or Class II products.
- (B) Subject to Sections 6(4) & 6(5) of the Regulation, an electrical product which is designed -
  - (I) to operate at a voltage of not less than 200V alternating current single phase;
  - (II) to operate at a maximum rated current of not more than 15A; and
  - (III) to be connected by means of a flexible cord and plug to a socket and is designed to be so connected directly without the use of a cable connector,shall be fitted with a plug of the correct rating which complies with the applicable safety requirements.
- (C) For an electrical product which is designed to receive power from a mains socket without connecting through a flexible cord, the construction and dimensions of the plug pins shall conform to BS 546 or BS 1363 Part 1.
- (D) For an electrical product which is designed to receive power from a shaver supply unit conforming to BS 3535 Part 1 without connecting through a flexible cord, the construction and dimensions of the plug pins shall conform to BS 4573 or EN 50075.
- (E) For an electrical product which is designed solely for use at a voltage of less than 200V alternating current single phase, a warning label specified in Schedule 3 of the Regulation shall be provided.

The safety standards listed below are deemed to satisfy the applicable safety requirements of the Regulation subject to the additional safety requirements stated above. This list is not exhaustive and will be updated as and when required. Household electrical products conforming to safety standards other than those listed are also acceptable if the corresponding standards can be proved to be equivalent to the relevant standards on the list or in compliance with the applicable safety requirements prescribed by the Regulation. For details of the scope and application of an individual standard, please refer to its latest version published by the relevant authority.

### 1.2.1 **Cables and Cords**

#### Electrical Products

#### Standards

Cord sets	IEC 60799 : Cord sets and interconnection cord sets
Mineral insulated cables and their terminations	IEC 60702 : Mineral insulated cables and their terminations with a rated voltage not exceeding 750V
PVC insulated cables	IEC 60227 : Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V  BS 6500 : Specification for insulated flexible cords and cables
Rubber insulated cables	IEC 60245 : Rubber insulated cables of rated voltages up to and including 450/750V  BS 6500 : Specification for insulated flexible cords and cables

### 1.2.2 **Switches for Appliances and Automatic Controls for Electrical Household Appliances**

#### Electrical Products

#### Standards

Circuit breakers for equipment	IEC 60934 : Circuit-breakers for equipment
Control circuit devices	IEC 60730 : Automatic electrical controls for household and similar use
Switches for appliances	IEC 61058 : Switches for appliances
Electromechanical contactors	IEC 61095 : Electromechanical contactors for household and similar purposes

### 1.2.3 **Household and Similar Equipment**

#### Electrical Products

#### Standards

Air-cleaning appliances	IEC 60335-2-65 : Particular requirements for air-cleaning appliances
Air-conditioners	IEC 60335-2-40 : Particular requirements for electrical heat pumps, air conditioners and dehumidifiers
Appliances for heating liquids	IEC 60335-2-15 : Particular requirements for appliances for heating liquids

Appliances for skin or hair care	IEC 60335-2-23 : Particular requirements for appliances for skin or hair care
Battery chargers	IEC 60335-2-29 : Particular requirements for battery chargers
Cleaning appliances	IEC 60335-2-54 : Particular requirements for surface-cleaning appliances for household use employing liquids or steam
Clocks	IEC 60335-2-26 : Particular requirements for clocks
Clothes dryers	IEC 60335-2-43 : Particular requirements for clothes dryers and towel rails
Cooking ranges	IEC 60335-2-6 : Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
Deep fat fryers	IEC 60335-2-13 : Particular requirements for deep fat fryers, frying pans and similar appliances
Dishwashers	IEC 60335-2-5 : Particular requirements for dishwashers
Electric dry irons	IEC 60335-2-3 : Particular requirements for electric irons
Electric fans	IEC 60335-2-80 : Particular requirements for fans
Electric hair dryers	IEC 60335-2-23 : Particular requirements for appliances for skin or hair care
Electric ironers (with padded surface for pressing)	IEC 60335-2-44 : Particular requirements for ironers
Electric kitchen machines	IEC 60335-2-14 : Particular requirements for kitchen machines
Electric pumps for liquids	IEC 60335-2-41 : Particular requirements for pumps.
Electric sauna heating appliances	IEC 60335-2-53 : Particular requirements for sauna heating appliances

Electric shavers	IEC 60335-2-8 : Particular requirements for electric shavers, hair clippers and similar appliances
Electric steam irons	IEC 60335-2-3 : Particular requirements for electric irons
Electric toilets	IEC 60335-2-84 : Particular requirements for toilets
Electrical appliances for use with aquariums and garden ponds	IEC 60335-2-55 : Particular requirements for electrical appliances for use with aquariums and garden ponds
Electrically heated blankets	IEC 60335-2-17 : Particular requirements for blankets, pads and similar flexible heating appliances
Electrically heated pads	IEC 60335-2-17 : Particular requirements for blankets, pads and similar flexible heating appliances
Fabric steamers	IEC 60335-2-85 : Particular requirements for fabric steamers
Floor treatment machines	IEC 60335-2-10 : Particular requirements for floor treatment machines and wet scrubbing machines
Food freezers	IEC 60335-2-24 : Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers
Food waste disposers	IEC 60335-2-16 : Particular requirements for food waste disposers
Foot warmers and heating mats	IEC 60335-2-81 : Particular requirements for foot warmers and heating mats
Frying pans	IEC 60335-2-13 : Particular requirements for deep fat fryers, frying pans and similar appliances
Grills	IEC 60335-2-9 : Particular requirements for grills, toasters and similar portable cooking appliances
Hair clippers	IEC 60335-2-8 : Particular requirements for electric shavers, hair clippers and similar appliances

Humidifiers	IEC 60335-2-88 : Particular requirements for humidifiers intended for use with heating, ventilation, or air-conditioning systems
	IEC 60335-2-98 : Particular requirements for humidifiers
Ice-makers	IEC 60335-2-24 : Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers
Induction hotplates	IEC 60335-2-9 : Particular requirements for grills, toasters and similar portable cooking appliances
Insect killers	IEC 60335-2-59 : Particular requirements for insect killers
Instantaneous water heaters	IEC 60335-2-35 : Particular requirements for instantaneous water heaters
Massage appliances	IEC 60335-2-32 : Particular requirements for massage appliances
Microwave ovens	IEC 60335-2-25 : Particular requirements for microwave ovens, including combination microwave ovens
Motor compressors	IEC 60335-2-34 : Particular requirements for motor compressors
Oral hygiene appliances	IEC 60335-2-52 : Particular requirements for oral hygiene appliances
Outdoor barbecues	IEC 60335-2-78 : Particular requirements for outdoor barbecues
Ovens	IEC 60335-2-6 : Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
Portable heating tools	IEC 60335-2-45 : Particular requirements for portable heating tools and similar appliances
Portable immersion heaters	IEC 60335-2-74 : Particular requirements for portable immersion heaters
Power transformers and power supply units	IEC 61558: Safety of power transformers, power supply units and similar

Projectors	IEC 60335-2-56 : Particular requirements for projectors and similar appliances
Range hoods	IEC 60335-2-31 : Particular requirements for range hoods
Refrigerators	IEC 60335-2-24 : Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers
Roasters	IEC 60335-2-9 : Particular requirements for grills, toasters and similar portable cooking appliances
Room heaters	IEC 60335-2-30 : Particular requirements for room heaters
Sewing machines	IEC 60335-2-28 : Particular requirements for sewing machines
Spin extractors	IEC 60335-2-4 : Particular requirements for spin extractors
Storage water heaters (other than unvented type)	IEC 60335-2-21 : Particular requirements for storage water heaters
Thermal storage room heaters	IEC 60335-2-61 : Particular requirements for thermal storage room heaters
Toasters	IEC 60335-2-9 : Particular requirements for grills, toasters and similar portable cooking appliances
Towel rails	IEC 60335-2-43 : Particular requirements for clothes dryers and towel rails
Tumble dryers	IEC 60335-2-11 : Particular requirements for tumble dryers
Ultraviolet and infrared radiation skin treatment appliances	IEC 60335-2-27 : Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation
Vacuum cleaners	IEC 60335-2-2 : Particular requirements for vacuum cleaners and water-suction cleaning appliances
Warming plates	IEC 60335-2-12 : Particular requirements for warming plates and similar appliances

Washing machines	IEC 60335-2-7 : Particular requirements for washing machines
Water suction cleaning appliances	IEC 60335-2-2 : Particular requirements for vacuum cleaners and water-suction cleaning appliances
Water-bed heaters	IEC 60335-2-66 : Particular requirements for water-bed heaters
Wet scrubbing machines	IEC 60335-2-10 : Particular requirements for floor treatment machines and wet scrubbing machines
Whirlpool baths	IEC 60335-2-60 : Particular requirements for whirlpool baths

#### **1.2.4 Installation Accessories and Connection Devices**

##### Electrical Products

##### Standards

Appliance couplers	IEC 60320 : Appliance couplers for household and similar general purposes
Connecting devices	IEC 60998 : Connecting devices for low-voltage circuits for household and similar purposes  IEC 60999 : Connecting devices – Electrical copper conductors : Safety requirements for screw-type and screwless-type clamping units
Low-voltage switchgear	IEC 60947 : Low-voltage switchgear and controlgear
Shaver supply units/sockets	BS 3535 : Isolating transformers and safety isolating transformers, or  BS 4573 : Specification for 2-pin reversible plugs and shaver socket- outlets
Socket-outlets	BS 546 : Specification. Two-pole and earthing-pin plugs, socket-outlets and socket-outlet adaptors, or  BS 1363 Part 2 : Specification for 13A switched and unswitched socket-outlets
Switches	IEC 60669 : Switches for household and similar fixed-electrical installations

## 1.2.5 **Lighting**

### Electrical Products

### Standards

A.C. supplied electronic ballasts of tubular fluorescent lamps

IEC 61347-2-3 : Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps

Ballasts for discharge lamps

IEC 61347-2-9 : Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)

Ballasts for tubular fluorescent lamps

IEC 61347-2-8 : Particular requirements for ballasts for fluorescent lamps

Double capped fluorescent lamps

IEC 61195 : Double-capped fluorescent lamps - Safety specifications

Electrical supply track systems for luminaires

IEC 60570 : Electrical supply track systems for luminaires

Electronic step-down convertors for filament lamps

IEC 61347-2-2 : Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps

Floodlights

IEC 60598-2-5 : Luminaires - Floodlights

Handlamps

IEC 60598-2-8 : Luminaires - Handlamps

Incandescent lamps

IEC 60432 : Incandescent lamps – Safety specifications

Lamp caps

IEC 60061-1 : Lamp caps and holders together with gauges for the control of interchangeability and safety - Lamp caps

Lamp holders (other than Edison screw & bayonet type)

IEC 60061-2 : Lamp caps and holders together with gauges for the control of interchangeability and safety – Lampholders

IEC 60838 : Miscellaneous lampholders

Lampholders for tubular fluorescent lamps

IEC 60400 : Lampholders for tubular fluorescent lamps and starterholders

Lighting chains  
Luminaires, fixed, general purpose

IEC 60598-2-20 : Luminaires - Lighting chains  
IEC 60598-2-1 : Luminaires - Fixed general purpose

Luminaires for emergency

IEC 60598-2-22 : Luminaires - Luminaires for emergency lighting

Luminaires with built-in transformers for filament lamps	IEC 60598-2-6 : Luminaires - Luminaires with built-in transformers for filament lamps
Photo and film luminaires (non-professional)	IEC 60598-2-9 : Luminaires - Photo and film luminaires (non-professional)
Portable child-appealing luminaires	IEC 60598-2-10 : Luminaires - Portable child-appealing luminaires
Portable general purpose luminaires	IEC 60598-2-4 : Luminaires - Portable general purpose luminaires
Portable luminaires for garden use	IEC 60598-2-7 : Luminaires - Portable luminaires for garden use
Recessed luminaires	IEC 60598-2-2 : Luminaires - Recessed luminaires
Self-ballasted lamps	IEC 60968 : Self-ballasted lamps for general lighting services - Safety requirements
Single-capped fluorescent lamps	IEC 61199 : Single-capped fluorescent lamps - Safety specifications
Starterholders for tubular fluorescent lamps	IEC 60400 : Lampholders for tubular fluorescent lamps and starterholders
Starters for tubular fluorescent lamps	IEC 60155 : Glow starters for fluorescent lamps
Starting devices	IEC 61347-2-1 : Particular requirements for starting devices (other than glow starters)
Tungsten filament lamps	IEC 60432-1 : Incandescent lamps – Safety specifications – Part 1: Tungsten filament lamps for domestic and similar general lighting purposes
Tungsten halogen lamps	IEC 60432-2 : Incandescent lamps – Safety specifications – Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes

## 1.2.6 Information Technology Equipment

### Electrical Products

### Standards

Copying machine	IEC 60950 : Information technology equipment - Safety
Data processing equipment	IEC 60950 : Information technology equipment - Safety
Facsimile machine	IEC 60950 : Information technology equipment - Safety
Modem	IEC 60950 : Information technology equipment - Safety
Telephone answering machines	IEC 60950 : Information technology equipment - Safety
Typewriters	IEC 60950 : Information technology equipment - Safety
Visual Display Units for computer	IEC 60950 : Information technology equipment - Safety

## 1.2.7 Installation Protective Equipment

### Electrical Products

### Standards

Circuit-breakers	IEC 60898 : Electrical accessories - Circuit breakers for overcurrent protection for household and similar installations, or  BS EN 60898 : Circuit-breakers for overcurrent protection for household and similar installations. Circuit-breakers for a.c. and d.c. operation
Fuse	IEC 60127 : Miniature fuses, or  IEC 60269 : Low-voltage fuses, or  BS 88 : Cartridge fuses for voltages up to and including 1000V a.c. and 1500V d.c., or  BS 646 : Specification. Cartridge fuse-links (rated up to 5 amperes) for a.c. and d.c. service, or

	BS 1361 : Specification for cartridge fuses for a.c. circuits in domestic and similar premises, or
	BS 1362 : Specification for general purpose fuse-links for domestic and similar purposes (primarily for use in plugs)
Fuse-holders for miniature cartridge fuse-links	IEC 60127-6 : Miniature fuses - Fuse-holders for miniature cartridge fuse-links, or
	BS EN 60127-6 : Fuse-holders for miniature cartridge fuse-links
Residual current operated protective devices	BS 4293 : Specification for residual current-operated circuit-breakers, or
	BS 7288 : Specification for socket-outlets incorporating residual current devices (S.R.C.D.s), or
	BS EN 61008 : Specification for residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs), or
	BS EN 61009 : Specification for residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs), or
	IEC 61008 : Residual current operated circuit breakers without integral overcurrent protection for household and similar uses (RCCBs), or
	IEC 61009 : Residual current operated circuit breakers with integral overcurrent protection for household and similar uses (RCBOs)

### 1.2.8 **Portable Tools ( which are designed for household use )**

#### Electrical Products

#### Standards

#### Drills

IEC 60745-2-1 : Hand-held motor-operated electric tools – Safety – Particular requirements for drills and impact drills

EN 50144-2-1 : Safety of hand-held electric motor operated tools – Particular requirements for drills

## 1.2.9 **Electronics, Entertainment**

### Electrical Products

### Standards

Alarm systems	IEC 60839 : Alarm systems
Amplifiers	IEC 60065 : Audio, video and similar electronic apparatus - Safety requirements
Audio equipment *	IEC 60065 : Audio, video and similar electronic apparatus - Safety requirements
Karaoke equipment *	IEC 60065 : Audio, video and similar electronic apparatus - Safety requirements
Television	IEC 60065 : Audio, video and similar electronic apparatus - Safety requirements
Video equipment *	IEC 60065 : Audio, video and similar electronic apparatus - Safety requirements

\* Audio or video equipment which use lasers shall also conform to the requirements of IEC 60825 : Safety of laser products

- As from 1997 all new IEC standards, as well as new editions, revisions and amendments to existing publications are being issued with a designation in the 60000 series. It will be necessary to add 60000 to the old base number. The IEC standards on test certificates issued before 1997 may use the old series of numbers whereas the new 60000 numbering system will be used in new testing certificates.