

## **Wiring Accessories Specifications**

- 1. Preferential Country of Origin shall be Italy or other EU countries.**
- 2. Country of Manufacturing (“MADE IN ...”) shall be laser engraved or molded on the devices/items.**
- 3. The manufacturer shall use:**
  - a) quality management system according to EN ISO 9001: 2008 international standard;
  - b) environmental management system, according to EN ISO 14001: 2004 international standard;
  - c) work environment health and safety management system according to OHSAS 18001: 1999.All above manufacturer Quality Certificates shall be submitted.
- 4. Installation type shall be modular (grid type switches)**
  - a) Modules to be hooked/removed from support frames from front without the need of removing support from mounting box.
  - b) Up to 2 modules shall be installable in a 1 gang BS 4662 box and up to 5 modules shall be installable in a 2 gang BS 4662 box.
  - c) Installation details (isometric view) shall be provided.
- 5. Support Frames and Wall Plates**
  - a) Shall comply with EN 60669-1: 1999 + A1: 2002 + A2: 2008 and BS 5733 standard.
  - b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
  - c) Quality Mark shall be laser engraved or molded on the devices.
  - d) Support frames shall be of stainless steel with high quality thermoplastic hooking system between support and modules. Earth terminal for Electrical Bonding / Equipotential Bonding shall be provided.
  - e) Support fixing screw head shall be for Slotted and Cross-Slotted screwdriver.
  - f) Support frames and Wall plates allow installation of multiple, side by side, 1 and 2 gang BS 4662 boxes at a minimum distance of 25mm.
  - g) Wall plates are of screw less type.
  - h) All painted wall plates shall use “green” water based UV crossed-link paints, with solvents content not exceeding 20%. Relevant Manufacturer’s declaration shall be submitted.
- 6. Mechanisms/modules shall be of high quality thermoplastic material having properties of non-flame propagation.**
- 7. 1 way and 2 way Switches**
  - a) Switches shall comply with BS EN 60669-1: 1999 + A1: 2002 + A2: 2008.
  - b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
  - c) Quality Mark shall be laser engraved on the devices.
  - d) Switches **shall be rated 20 AX 250 Vac.**
  - e) 1, 2 and 3 gang switches shall be installable in a 1 gang BS 4662 box.
  - f) Number of operations certificates for switches, as per relevant standard, shall be submitted.
  - g) Terminal blocks shall provide 2 independent wire entrances for easier termination, safer and faster Line looping/iteration from a switch to the one beside.  
Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.

- h) Switches shall have replaceable/interchangeable front cap.
- i) 1, 2 and 3 gang 1 way switches along with 1 and 2 gang 2 way switches shall be lightable with LED units available in different colours.

#### **8. Reversing Switches**

- a) Switches shall comply with BS EN 60669-1: 1999 + A1: 2002 + A2: 2008.
- b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
- c) Quality Mark shall be laser engraved on the devices.
- d) Switches shall be rated **16 AX 250 Vac**.
- e) Number of operations certificates for switches, as per relevant standard, shall be submitted.
- f) Terminal blocks shall provide 2 independent wire entrances for easier termination, safer and faster Line looping/iteration from a switch to the one beside.  
Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.
- g) Switches shall have replaceable/interchangeable front cap.
- h) Switches shall be lightable with LED units available in different colours.

#### **9. Push buttons**

- a) Push buttons shall comply with BS EN 60669-1: 1999 + A1: 2002 + A2: 2008.
- b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
- c) Quality Mark shall be laser engraved on the devices.
- d) Push buttons **shall be rated 10 AX 250 Vac**.
- e) Terminal blocks shall provide 2 independent wire entrances for easier termination, safer and faster Line looping/iteration from a switch to the one beside.  
Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.
- f) Switches shall have replaceable/interchangeable front cap.
- g) Front cap with Bell symbol shall be available.
- h) Switches shall be lightable with LED units available in different colours.

#### **10. Double Pole Switches 20A**

- a) Switches shall comply with BS EN 60669-1: 1999 + A1: 2002 + A2: 2008.
- b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
- c) Quality Mark shall be laser engraved on the devices.
- d) Terminal blocks shall provide 2 independent wire entrances for easier termination, safer and faster Line looping/iteration from a switch to the one beside.  
Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.
- e) Switches shall be fitted with LED indicator.
- f) Switches shall have ON OFF front inscription in case of general use or shall have WATER HEATER / DISH WASHER / WASHING MACHINE / FCU front inscription in case they are meant for controlling said equipment.
- g) LED indicator shall backlight above inscriptions for reading and identify them at night.

#### **11. Double Pole Switches 32A and 45A**

- a) Switches shall comply with BS EN 60669-1: 1999 + A1: 2002 + A2: 2008.
- b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.

- c) Quality Mark shall be laser engraved on the devices.
- d) Switches are of monobloc type with embedded support frame and shall be installable in a 1 gang BS 4662 box.
- e) Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.
- f) Switches shall be fitted with LED indicator.
- g) Switches shall have ON OFF front inscription in case of general use and shall have COOKER / WATER HEATER inscription in case they are meant for controlling said equipment.

## **12. Switched socket outlets 13A**

- a) Sockets shall comply with BS 1363-2: 1995 standard including amendments 1, 2 and 3.
- b) Sockets shall be with 2 earth terminal blocks to provide high integrity earthing.
- c) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
- d) Quality Mark shall be laser engraved on the devices.
- e) Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.
- f) Switched sockets shall be provided with LED indicator where it is desirable to have a visible indication of presence/absence of power to equipment.

## **13. Switched socket outlets 15A and 5A**

- a) Sockets shall comply with BS 546: 1950 standard including amendments 1 to 8 as modified by Supplement No. 2 (1987).
- b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
- c) Quality Mark shall be laser engraved on the devices.
- d) Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.
- e) Switched sockets shall be provided with LED indicator where it is desirable to have a visible indication of presence/absence of power to equipment.

## **14. Shaver sockets**

- a) Shaver socket shall comply with IEC BS EN 61558-2-5: 2010 (2<sup>nd</sup> Edition).
- b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
- c) Quality Mark shall be laser engraved on the devices.
- d) Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.
- e) Two separated outputs for 120V and 230V shall be provided for safer and easier usage.
- f) Built-in isolating transformer rated 20VA shall be provided. Secondary circuit (socket outlets terminals) shall be separated from the primary power supply circuit by a double insulation.
- g) Shaver socket shall be protected against overload with built-in thermal cut-off device for ensuring enhanced safety. The cut off device shall reset automatically after the load has been unplugged and transformer cooled down.
- h) The outlets shall only be powered at the insertion of the plug by means of a specific push button located on the socket front and directly actuated by the plug.

## **15. Flex outlets 20A and 45A with cable clamp**

- a) Flex outlet shall comply with BS 5733: 2010.
- b) Quality Certificates to relevant standard issued by international reputed certification body (i.e. ASTA or IMQ) shall be submitted.
- c) Quality Mark shall be laser engraved on the devices.

- d) Flex outlet shall be rated **20A or 45A 250 Vac (2P + E)**.
- e) It shall provide screws cord anchorage/grip and 3 pairs of terminals (L, N, E).
- f) Terminal blocks screw head shall be suitable for Slotted and Cross-Slotted screwdrivers.