

Surface Boxes

- **1 & 2 Module (1M & 2M):** Designed for compact single switches, small socket combinations, or individual control points. Typically features a square or small rectangular layout with integrated brass or metal thread inserts for secure screw locking.
- **8 Module (8M - Horizontal/Vertical):** Built to host a medium cluster of switches and sockets (often horizontal layout configurations). It provides structured grouping for multi-gang applications in rooms or commercial desks.
- **12 Module (12M):** A larger rectangular box size designed to accommodate up to 12 standard modular mechanisms side-by-side, widely used for centralized heavy switchboards.

Plates

- **Material:** Flame-retardant (FR) grade polycarbonate (PC) or UV-stabilized engineered polymers.
- **Finish:** Smooth, dust-free glossy white or matte texture finish.
- **Construction:** Structured as a two-part system (inner mounting frame + outer snap-on plate) or a unified plate with concealed screw caps to ensure a screwless, sleek profile.
- **Safety Attributes:** Shock-proof insulation, high impact resistance, and self-extinguishing properties tested against standard glow-wire thresholds.

Switches (6A 1-Way Switch)

- **Current & Voltage Rating:** 6 Amperes, suitable for standard 220V–240V AC residential and commercial lines.
- **Module Size:** 1 Module (1M), taking up a minimal, single slot on modular plates.
- **Material & Build:** Flame-retardant (FR) grade engineering polycarbonate body with high thermal resistance and self-extinguishing properties.
- **Internal Contacts:** Pure silver-cadmium oxide (AgCdO) or silver-tip contacts for reduced arcing, enhanced conductivity, and long functional life (tested for over 100,000 operations).
- **Terminals:** Brass or copper terminals with captive screws for secure wire retention.

Fan Regulators

- **Module Form Factor:** Available in 1 Module (1M) compact size for space-saving setups and 2 Module (2M) standard size for heavy-duty knobs and comfortable grip.
- **Power Rating:** Rated for standard 75W to 100W inductive loads (suitable for standard ceiling fans).
- **Speed Steps:** Usually offers 4 to 5 steps (or up to 8 steps in premium models) for fine-tuned speed adjustments.
- **Hum-Free Performance:** Integrated electronic design ensures zero buzzing noise from the fan motor at low speeds.

- **Material:** Flame-retardant (FR) grade polycarbonate, UV-stabilized against yellowing, with secure internal screw terminals.

1.5 sq.mm. Wires

- **Conductor:** 99.97% pure electrolytic grade, bright-annealed bare copper with multi-strand configuration (offering high flexibility and easy conduit pulling).
- **Cross-Sectional Area:** 1.5 sq.mm
- **Current Rating:** 10A to 13A safe operational load in bundled conduits (nominal capacity up to 18A–22A in open air).
- **Voltage Rating:** Up to 1100 Volts (Low Tension Grade).
- **Insulation Type:** Flame Retardant (FR), Heat Resistant Flame Retardant (HRFR), or Flame Retardant Low Smoke (FRLS / HFFR) PVC compound.
- **Standards Compliance:** Conforms to IS 694, CE certified, and RoHS compliant.
- **Packaging Length:** 90 meters per roll/bundle.

6 sq.mm. FRLS Wires

- **Conductor:** 99.97% high-purity electrolytic grade, bright-annealed bare copper, multi-stranded configuration (Class 5 flexible) for easy pulling through conduits.
- **Cross-Sectional Area:** 6 sq.mm
- **Current Carrying Capacity:** 32A to 40A (factoring in practical conduit bundling derations).
- **Voltage Rating:** Up to 1100 Volts (Low Tension grade).

Conduit Pipes, Bends, and Junction Boxes

1. Conduit Pipes

- **20 mm Medium (Black):** Outer Diameter (OD) is exactly 20.0 mm (with standard BIS tolerance limits of approx. -0.3 mm). Minimum inside diameter is ~16.9 mm, giving ample clearance for pulling standard multi-strand copper electrical wires. Standard length is 3 meters per pipe segment. High-grade rigid uPVC in black, engineered for impact resistance, insulation, and non-corrosion.
- **25 mm Black:** ISI marked as per IS:9537 Part 3 compliance.

2. Bends & Elbows

- **Function:** Used for redirecting conduit routes cleanly. For wire pulling, sweeping bends with a large internal radius are heavily preferred over sharp elbows to minimize friction and prevent wire jamming.
- **Size Match:** Precision-machined socket ends matching outer dimensions.
- **Material:** Rigid black PVC matching the conduit's medium gauge mechanical properties.

3. Junction Boxes

- **Function:** Serves as branch-out points, wire-pulling access spaces, or switchboard termination housings.
- **Variants:** Available in 1-way, 2-way (straight/angle), 3-way (T-type), and 4-way (H-type) configurations.
- **Design:** Fitted with threaded lids/covers to prevent concrete or dust ingress during slab casting or wall chasing.