

SPECIFICATIONS:

1. Specification for PVC rigid wiring conduit pipe.

The PVC wiring conduit pipe shall be of rigid PVC pipe of outer diameter indicated in the schedule, heavy duty type suitable for electrical wiring purpose with plain ends and shall conform to IS: 9537 (part 3) 1983. Only ISI marked PVC pipes should be used. Standard lengths of pipe should be 3.00 m. Each standard length of pipe shall be marked with manufacturer's Name, Trade Name, Duty and ISI marking. PVC wiring conduit also include bends, elbows, tees, straight through couplers, junction boxes of suitable number of ways etc all made of PVC materials suitable for electrical wiring purpose and these shall be of rigid slip fit type, with their dimensions & thicknesses shall be suitable for PVC wiring conduits of size given in the schedule.

2. Accessories for PVC rigid wiring conduit pipes:

Accessories are inclusive of PVC bends, couplings, Tees or Junction boxes etc as per site requirement, of rigid slip fit type, suitable for electrical wiring purpose with dimensions and thicknesses suitable for PVC wiring conduit of size given in the schedule. When Junction boxes are used they shall be of standard dimensions and thicknesses. PVC Junction boxes shall be suitable for PVC wiring conduits of sizes indicated in the schedule. Junction boxes shall be of single way / two way / three way / four way types as per wiring requirement. Junction boxes shall be covered with PVC cover on the top fixed using GI screws. The depth of junction box shall be suitable for the type of wiring.

3. Method of laying of wiring conduit – by concealed wiring method.

The conduit shall be embedded in the groove already provided including supply and using of all accessories such as nails / screw etc, spaced not more than one m apart and as directed by the Engineer-in-Charge in such a way as to secure the wiring conduit in a rigid manner. This also includes supply and running one number of GI fish catch wire of 16 SWG size.

4. Specification for chipping, opening and plastering of wall for embedding of PVC wiring conduit in concealed wiring method

This includes chipping and breaking open the wall of adequate depth and width required to embed one number of PVC wiring conduit of size indicated in the schedule. This also includes all required accessories for embedding of conduit in the groove cut for this purpose. When more than one number of PVC pipe are to be embedded, all such pipes shall be placed adjacent to each other with the wall opened to the total width required. In such cases the total measurement will be the length per pipe multiplied by number of pipes embedded. Closing of opened wall after PVC pipes are provided shall be with cement mortar of 1:6 mix. It shall be ensured that cement mortar cover over the PVC pipes embedded in the wall up to the surface of brick wall (excluding final plastering of wall) should be at least 20 mm thick.