



IS 9537 (Part 3) : 1983- Specification for conduits for electrical installations: Part 3 rigid plain conduits of insulating materials

"Rigid conduits of Insulating Materials for Electrical Installations" are non-metallic tubes designed to protect and route electrical wiring while providing insulation and resistance to various environmental factors.

Applications: Commonly used in residential, commercial, and light industrial electrical installations, they are ideal for embedding within walls, ceilings, floors, or in locations where minimal exposure to extreme conditions is expected.

The document is the Indian Standard IS 9537 (Part 3): 1983, covering specifications for rigid, non-threadable, plain-ended conduits of insulating materials for electrical installations. It details the required characteristics, including mechanical properties, thermal resistance, and fire resistance for conduits used in wiring. The standard defines dimensions, classifications (based on stress levels such as light, medium, and heavy), and acceptable tolerances. It also specifies testing methods, such as bending, compression, and impact tests, to ensure durability and safety. Compliance requires specific markings on each conduit, denoting size, manufacturer, and classification. Lastly, it incorporates a sampling plan to determine conformity across production lots.

The Indian Standard IS 9537 (Part 3): 1983 confirms that these conduits provide a safe, durable, and cost-effective solution for protecting electrical wiring in installations where insulation and corrosion resistance are priorities.