

Catalog of BS EN61386 PVC Electrical Conduits and Fittings



Manufacturer Information

Manufacturer Name: Guangzhou Tianhui Communication Technology Co., Ltd.

Core Qualifications: With over 20 years of experience in the plastic pipe industry, we have obtained ISO9001, 14001, 45001 system certifications, as well as product certifications such as SGS, CE, and BSCI. The annual production capacity is over 8,000 tons, using 100% virgin PVC resin for production. We support OEM&ODM customization, with a response time of ≤ 1 hour, and serve more than 400 partners worldwide.

Part 1: BS EN61386 PVC Electrical Conduits (Rigid PVC Electrical Conduit)

Core Implementation Standard

Strictly complies with BS EN61386 series standards (including BS EN61386-1:2016 and BS EN61386-22:2004), covering light, medium and heavy duty classifications, suitable for various electrical installation scenarios, and meets international general electrical conduit specifications[7].

Core Product Features

- **Material:** High-quality rigid PVC (polyvinyl chloride), lead-free, halogen-free and environmentally friendly, in line with ROHS standards, non-conductive, good insulation performance, and raw materials are traceable[6].
- **Fire Retardant Performance:** Reach V0 fire rating, self-extinguishing, non-propagating flame, effectively preventing fire spread and ensuring electrical installation safety[6].
- **Mechanical Performance:** Excellent impact resistance, compression resistance and bending resistance, able to withstand low temperature ($-15^{\circ}\text{C} \sim -45^{\circ}\text{C}$) and high temperature (up to $60^{\circ}\text{C} \sim 150^{\circ}\text{C}$) environments, not easy to brittle fracture or deform under physical stress[6].
- **Protection Performance:** Waterproof and dustproof rating (optional), corrosion-resistant, anti-UV, suitable for indoor, outdoor, exposed, concealed, concrete-embedded or underground installation scenarios.

- **Easy Construction:** Light weight, easy to cut, bend and install, smooth inner wall, which can protect wires and cables from wear and tear, and improve wiring efficiency.
- **Other Features:** Standard color options include light grey (RAL 7035), dark grey (RAL 7037), white (RAL 9003) and black (RAL 9004), customizable; with permanent markings, complying with standard requirements.

Regular General Specifications (Industry Standard Model)

Nominal Diameter (DN/OD)	Outer Diameter (OD)	Wall Thickness	Duty Classification	Common Length	Application Scenarios
16mm	15.7-16.0mm	1.0 -1.4mm	Light/Medium	3m/4m/6m	Indoor household Wiring small electrical Equipment wiring
20mm	19.7-20.0mm	1.1 -1.7mm	Light/Medium/ Heavy	3m/4m/6m	Commercial building branch wiring, office, retail store electrical installation, exposed or concealed
25mm	24.7-25.0mm	1.2 -1.8mm	Light/Medium/H eavy	3m/4m/6m	Industrial equipment wiring, building vertical wiring, concrete-embedded installation
32mm	31.6-32.0mm	1. 5 -1.85mm	Medium/Heavy	3m/4m/6m	Large electrical equipment wiring,

					building main wiring, outdoor exposed installation
40mm	39.6-40.0mm	2.0-2.5mm	Heavy	3m/4m/6m	Industrial workshop wiring, municipal electrical engineering, underground embedded wiring
50mm	49.6-50.0mm	2.6-2.9mm	Heavy	3m/4m/6m	Large-scale project main wiring, power distribution room wiring, high-demand industrial scenarios
63mm	62.5-63.0mm	2.7-2.9mm	Heavy	3m/4m/6m	Municipal power engineering, large industrial plant wiring, high-voltage cable protection[4] [6]

Part 2: Common Supporting Fittings for BS EN61386 PVC Electrical Conduits (General Model)

Core Features

Same material as BS EN61386 PVC electrical conduits (rigid PVC), fully compliant with BS EN61386 series standards, complete specifications, good sealing performance, corrosion resistance, anti-UV, fire retardant (V0 rating), easy installation, perfect matching with conduits, ensuring the integrity and safety of the electrical wiring system[5].

Common Fitting Categories and Specifications

Fitting Category	Fitting Name	Suitable Nominal Diameter (OD)	Connection Method	Purpose
Coupling (Straight-through)	Standard PVC Electrical Coupling 	16mm-63mm	Socket Bonding/Twist Lock	Straight connection of electrical conduits to extend the pipe length, ensure smooth wiring
	Expansion PVC Electrical Coupling 	20mm-63mm	Socket Bonding/Twist Lock	Compensate for thermal expansion and contraction of conduits, suitable for outdoor or high-temperature environments
Elbow	90° PVC Electrical Elbow 	16mm-63mm	Socket Bonding	Conduit turning (right angle), suitable for corners, wall edges and narrow spaces
	45° PVC Electrical Elbow 	16mm-63mm	Socket Bonding	Slow turning of conduits, reducing wire wear and facilitating wiring
Tee	Equal Diameter PVC Electrical Tee 	16mm-63mm	Socket Bonding	Branch connection of electrical conduits, realizing wire shunting and branching wiring

Reducer Fittings	PVC Electrical Reducer Coupling 	16mm-63mm (different specification combinations)	Socket Bonding	Connection of conduits with different diameters to meet the needs of diameter change in wiring systems
	PVC Electrical Adapter 	16mm-63mm	Socket Bonding/Threaded Connection	Connection between PVC conduits and electrical boxes, junction boxes or other equipment
Junction Box	PVC Electrical Junction Box (1-way/2-way/3-way/4-way) 	16mm-63mm	Socket Bonding/Threaded Connection	Wire connection, branching and maintenance, with lids and screws for dustproof and waterproof protection[5]
Fixing Fittings	PVC Electrical Conduit Clip 	16mm-63mm	Screw Fixing/Buckling	Fixing conduits on walls, ceilings or ground, ensuring stable installation[5]
	PVC Conduit Saddle 	20mm-63mm	Screw Fixing	Fixing conduits on walls or beams, suitable for exposed installation scenarios
Other Common Fittings	PVC Electrical Gland, Bend Spring, Conduit Cap 	Corresponding full specifications	Bonding/Threaded/Fastening	Cable fixing, conduit bending assistance, conduit end sealing to protect internal wires

Part 3: Manufacturer Service Description

- **Customization Service:** Supports customization of conduit and fitting size, wall thickness, color, length, and duty classification, can print brand LOGO, and provides one-stop OEM&ODM processing services, including customized packaging and molds.
- **Quality Assurance:** Full-process quality control, multiple inspections from raw material inspection to finished product delivery, ensuring products meet BS EN61386 series standards, SGS, CE, ROHS and other relevant international certifications, with 100% environmental raw materials.
- **Supply Service:** Sufficient stock, flexible minimum order quantity (MOQ), fast delivery speed and timely response, which can meet the supply needs of foreign trade export, large-scale electrical engineering, retail and other scenarios, supporting free sample provision.
- **After-sales Guarantee:** Provides services such as product installation guidance, technical support and quality problem feedback processing, follows up the whole process to protect customer rights and interests, and provides long-term after-sales service.

