



# DUCTING

WITH SUDARSHAN PIPING  
SOLUTION...

PVC Conduit Pipes  
PLB Duct Pipes  
Power Duct  
DWC Pipes





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Society is transforming into digital revolution,, energy fossil fuel to solar, from Bus to metro, local train to Vande Bharat, Roads to Highway, bridges, we need different kind of piping solution for all these infra projects.

At Sudarshan Pipers, we are dedicated to deliver, piping and ducting solutions for underground cable, Optical Fiber, Electrical wire, to provide uninterrupted energy or data transmission.

Sudarshan has developed the products in wide range for ducting solution for Smart Cities, Metro, Railways, Telecom, Solar, Flyover, Real Estate, Airport, National Highway, Industry and Residential layout.

## About Company



Sudarshan Pipes, promoted by CA Arvind Salampuria, a highly visionary professional Industrialist- to provide high quality product in Piping Industry.



Established in 2003, Sudarshan Pipes is South India's largest manufacturer of PVC/UPVC/OPVC/Column Pipes/HDPE/MDPE/PLB Duct/DWC/Gas Pipe and Fittings. It is recognized for its quality, durability, and innovation and provides reliable piping and ducting solutions for industries, water management, agriculture, real estate, and infrastructure.

Sudarshan PE/PVC Pipes provide solution for Drinking, Drainage and ducting - Infrastructure Project- Railway-Metro-Telecom-Gas Pipes- Airport-Real Estate- Water Management and Irrigation.





# DUCTING



In the modern era, underground infrastructure has become essential for ensuring the seamless and uninterrupted flow of electricity, data, water, and sewerage. Electrical cables, telecom cables, fiber optic networks, and drainage pipelines are all routed underground to maintain a clean surface, allowing for efficient movement of vehicles and manpower. To safeguard these critical utilities, ducting with plastic pipes is the most effective solution, offering protection and durability for both communication, Power Transmission and water transport systems.



**Plastic pipe is most suitable product/material for ducting of electrical cable, telecom cable, Fibernet, Optical Fibre why?**

Plastic pipes are the preferred choice for ducting electrical and telecom cables, fiber optic networks, and Fibernet due to their numerous advantages. They are corrosion-resistant, capable of withstanding soil pressure, flexible for easy installation, cost-effective, and highly durable. Their smooth inner surface facilitates easy cable installation, while their availability in various colours and sizes ensures traceability and adaptability to different infrastructure needs. With these benefits, plastic pipes offer a long-term, reliable solution for underground utility protection.

## DIFFERENT TYPES OF **PLASTIC** **PIPES FOR DUCTING**



**PVC Conduit Pipes**



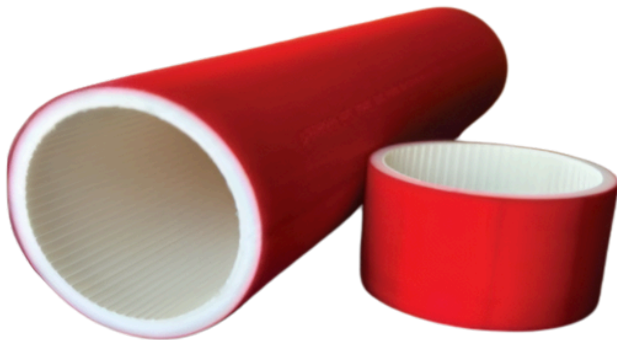
**HDPE Pipes**



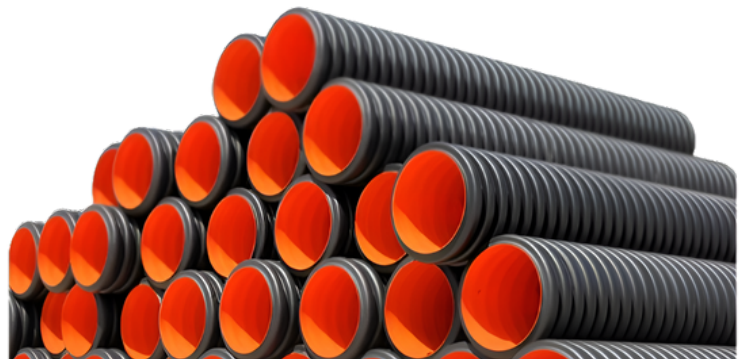
**PLB Duct Pipes**



**Multi Duct HDPE Pipes**



**Power Duct Pipes**

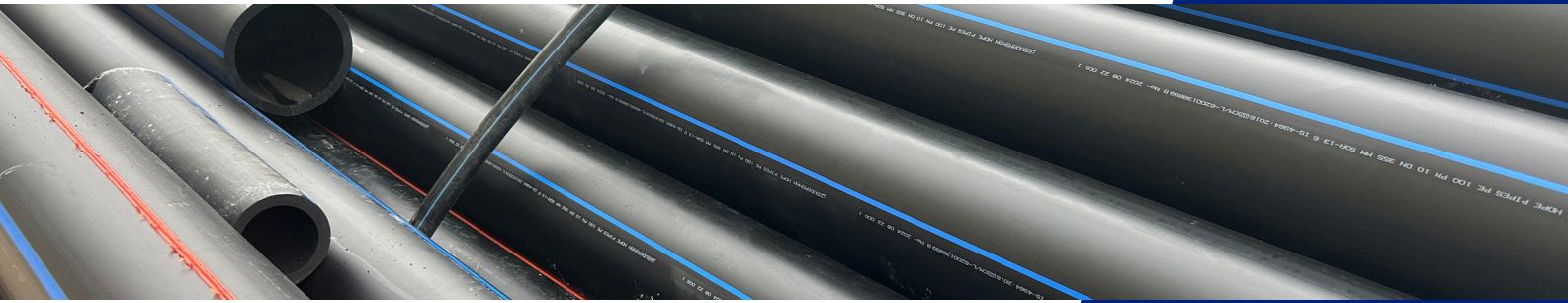


**DWC Pipes**



# SPECIFICATION AND APPLICATION FOR DUCTING PIPES

Types	BIS Specification	Sizes	Application	Used by
PVC Conduit Pipes	IS 9537 and IS 14787	16mm to 63mm	House wiring, Inside Root, Slab, Electrical cable/false ceiling	Real Estate, Housing Complex
HDPE Pipes	ISI: 4984(2016) PN4/PN6/PN8/PN10	20 mm to 400 mm	Ducting of electrical cable and HT Cable	Electricity Department, Layout Developers, Industrial Complex
PLB Duct Pipes	TEC 72030:2019 TSEC and RITES Certificate	32 mm to 110 mm	Ducting of Optical Fiber Cable, Net Cable, Telecom Cable, Railway Cable	Telecom, Railway, NHAI, Airport, Layout, Metro, Industry
Power Duct Pipes	ASTM-2160	20 mm to 250 mm	Ducting of HT Cable for higher Diameter	Smart Cities, Mega Projects
DWC Pipes	ISI 16205 (Part 2) 2013	40 mm, 50 mm & 63 mm	Solar	Metro, Flyover, Bridges, Railways, Airport, Highways, Layout etc
		110 mm	Telecom	
		120mm-160mm	Railway	
		160mm-200mm	Cable	
		150mm-600mm	Drainage	



## WHY SUDARSHAN'S PIPES ?

Sudarshan Pipes a leading manufacturer of PVC Conduit Pipes/HDPE Pipes/ PLB Duct/ Power Duct/DWC Pipes at its state-of-the-art Plant facilitates in Bommasandra (Hosur Road)/Dabaspeta/ Oblapura Bangalore Since 2003 equipped with advanced technology, ensuring precision engineering and consistent quality in every product.

Sudarshan Pipes is a pioneer in India's ducting solutions, being the first company in the country to manufacture different types of duct poly pipes that comply with BIS, ISO, and international standards. Our products are trusted for their quality and reliability, with third-party inspections conducted by CIPET and RITES to ensure superior performance.

We supply high-quality ducting pipes to a wide range of sectors, including Railways, Telecom, Metro, National Highways, Navy, Army, Developers, Real Estate, and Builders for the ducting of electrical cables, fiber optic networks, railway cables, and optical cables.





# APPLICATION OF SUDARSHAN PIPES

## PVC CONDUIT PIPES (IS 9537 and IS 14787)

Made from high-quality polyvinyl chloride, these pipes are -

- non-corrosive
- lightweight
- excellent insulation properties

They are available in sizes ranging from 16mm to 63mm with standard wall thickness. Used for electrical wiring and telecommunication cable protection in- residential/ commercial/ industrial installations



## HDPE Pipes (ISI: 4984(2016) PN4/PN6/PN8/PN10)

High-Density Polyethylene pipes offer-

- high impact resistance
- flexibility
- UV stability

Typically available in sizes from 20mm to 400mm with pressure ratings of PN 6 to PN 16. Used for underground and overhead cable protection in power distribution and fiber-optic networks.

## PLB Duct (Pre-Lubricated Ducts)

(TEC 72030:2019 TSEC and RITES Certificate)

Manufactured from HDPE with-

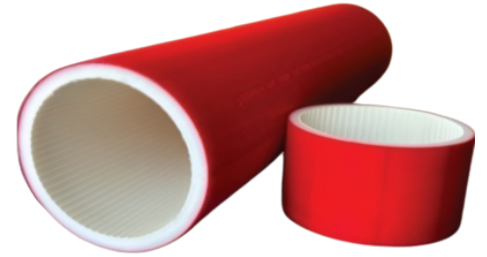
- inner silicone coating
- ensuring low friction for easy cable installation

Common sizes include 32/26mm, 40/33mm, and 50/42mm. Widely used in fiber optic and telecom cable laying.



## POWER DUCT (ASTM-2160)

Strong and durable ducts designed for mega power cable protection, made of HDPE or PVC with high impact resistance. Available in sizes from 110mm to 200mm with smooth or corrugated walls. Used in underground power transmission and distribution networks.



## DWC Pipes (Double Wall Corrugated Pipes) (ISI 16098 (Part 2) 2013)

Lightweight yet strong pipes with an inner smooth wall for easy cable pulling and an outer corrugated layer for durability. Typically available in sizes from 40mm to 250mm. Used for underground cable ducting in power, telecom, Metro, and railway signaling applications.

## HDPE Multi Duct Pipe

HDPE Multi Duct Pipes are advanced cable management solutions made from High-Density Polyethylene (HDPE) that combine multiple micro ducts within a single outer jacket. These ducts are specifically designed to house and protect fibre optic cables or other communication lines in a compact and organized manner.



### Why HDPE Multi Duct Pipes Are Useful:

- Space Efficiency
- Cost-Effective Installation
- Future-Proofing Infrastructure
- Durability & Protection
- Ease of Cable Management
- Efficient Route Planning
- Environmental Resistance



## Available Size (HDPE Multi Duct)

Pipe Configuration	Sizes OD (MM)	Sizes ID (MM)
3 Way	32	26
	40	33
	50	42
4 Way	32	26
	40	33
	50	42
7 Way	32	26
	40	33
	50	42

## Installation Method

- 1. Duct Installation:** Ducts are installed, and then optical fiber cables are pulled or blown through them.
- 2. Pulling Method:** Cables are pulled through the plastic pipe using a pulling rope or cable.
- 3. Pushing Method:** Cables are pushed through the plastic pipe using a pushing rod or cable.
- 4. Blowing Method:** Cables are blown through the plastic pipe using compressed air.
- 5. Direct Burial:** Optical fiber cables are buried directly in the ground, often using a trenching machine.
- 6. Aerial Installation:** Optical fiber cables are installed aerially, often using existing infrastructure like power poles.

# GALLERY



## Sudarshan PLB Duct Pipes installed in Solapur Railway Station







### HDPE And PVC Division

Mfg.: PVC/ OPVC/ Column Pipes/ Casing Pipes/ Electro Fusion Fitting/ Butt, Spigot Fittings/ MDPE Compression Fittings / HDPE / MDPE/ GAS / PLB / Single / Double Wall Corrugated Pipes/ DRIP/ SPRINKLER PIPES



### HDPE DIVISION

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By Bureau Veritas (India) Pvt.Ltd.