

# Product Detail

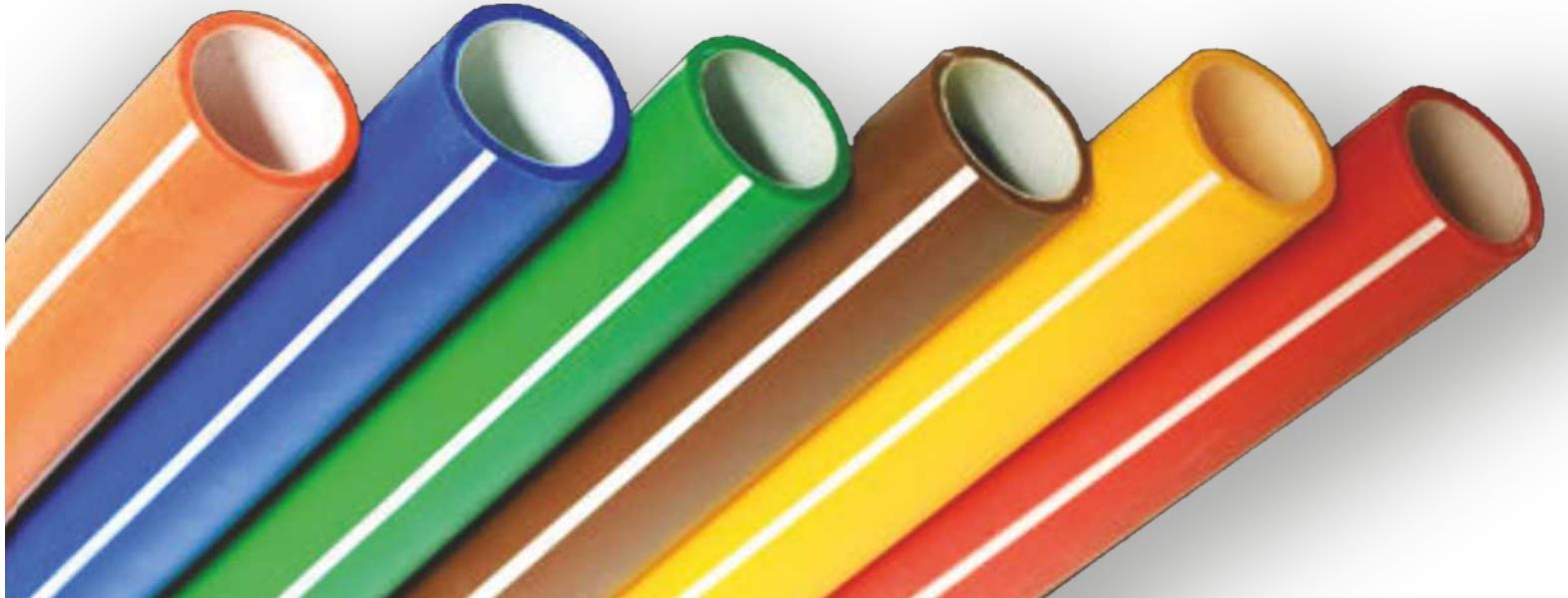
With the increasing demands on telecom industry, especially in developing countries for more connections, the use of new age Optical Fiber Cables (OFC) has become a necessity and to lay these cables underground rapidly over long lengths, Silicon Coated Permanently Lubricated HDPE ducts, in short PLB pipes, are used as conduits.

Silicon-Coated Permanently Lubricated High-Density Polyethylene (HDPE) Ducts are widely used for underground optical fiber cable installations. These ducts are manufactured using high-quality virgin HDPE material and have an inner layer permanently lubricated with silicon, which ensures smooth cable blowing and easy installation. This inner layer of ducts minimizes the friction between OFC and the duct during the process of blowing the cable into the ducts, thus providing smooth installation of OFC in the duct without damaging the cable fibers.

The ducts comply with the Telecom Engineering Centre (TEC) specifications set by the Department of Telecommunications (DoT), Government of India, making them a preferred choice for telecom infrastructure projects. As per TEC Specifications (GR No. TEC/GR/TX/CDS-008/03/MAR-11 with latest amendments) or customer requirements, Permanently Lubricated HDPE Ducts are formed by co-extrusion technique using ultra-violet (UV) stabilized grade of HDPE with required anti-oxidant content and other recommended additives.

PLB Duct Pipes are used as underground cable conduits for laying optical fiber cables, communication cables etc. & are suitable for cable installation by blowing or pulling by rope techniques. PLB Ducts are suitable for telecommunication, computer network, automatic signaling, railways information network, highways, cable service providers, broadband networks, electric cable installation etc.

**Sizes: 32/26 mm, 40/33 mm, 50/42 mm, 63/50 mm, with rope & without rope.  
Lengths: 50 / 100 / 250 / 500 / 1000 meters as per size.**



## Features

- High-Quality Material: Made from virgin HDPE, ensuring strength, flexibility, and durability.
- Silicon-Coated Inner Layer: A permanently lubricated inner surface minimizes friction for smooth cable blowing.
- UV Stabilized: Resistant to environmental degradation due to UV exposure.
- Crush & Impact Resistant: Designed to withstand mechanical stress and heavy loads.
- Corrosion and Chemical Resistant: Ideal for diverse environmental conditions. The material used is optimised for Environment Stress Crack Resistance (ESCR) temperature resistance and Ultraviolet (UV) protection.
- Varied Sizes & Colors: Available in multiple diameters and colors as per project requirements.
- Installation: Low weight and less number of joints makes it easy for cable insertion and simplifies installation of longer lengths rapidly with lesser manpower. Also, negotiations of cable movement through bends and deflections are easier.
- Maintenance: Easy maintenance and future upgrades
- TEC-Compliant: Manufactured in adherence to Indian telecom standards for performance and reliability.
- Physiological: It has no toxic or dermal hazards when handled safely handled.

## Benefits

- Enhanced Network Reliability: Ensures stable and efficient fiber optic network deployment.
- Reduced Maintenance: Lower wear and tear on cables, reducing maintenance costs.
- Faster Deployment: Enables quick and efficient fiber optic cable laying.
- Operational Efficiency: Optimized for telecom and data transmission infrastructure.

## Applications

- Telecommunication Networks: Used for laying optical fiber cables in underground networks.
- Railway Signaling & Communication: Ideal for railway communication systems.
- Power & Utility Infrastructure: Suitable for electrical and broadband cable conduits.
- Oil & Gas Pipelines: Used for control and communication cables.
- Smart City Projects: Essential for modern urban digital infrastructure.
- Defense & Security Networks: Used in critical communication networks for defense applications.



For enquiries or further queries,  
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