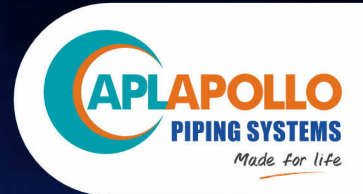




Sudesh Group

35 Years of
excellence



APL APOLLO HDPE PLB DUCT PIPES

FOR FIBRE OPTICAL CABLE



www.apollopipes.com

APL APOLLO HDPE PLB DUCT PIPES

Apollo Pipes have been offering a wide range of HDPE Permanent Lubricated Duct Pipes and Fittings that are manufactured from virgin Quality Raw Materials sourced from reliable vendors across the globe. Similarly, these pipe conduits, pipe ducts, HDPE conduits, and PLB HDPE Ducts are manufactured according to various Indian as well as ASTM / IS / TEC standards or can be customized as per the specifications of our clients.

Designed for Optical Fiber Network

HDPE PLB Duct Pipes or High Density Polyethylene Permanently Lubricated Ducts are the high flow capacity ducts, which offer a very high quality option for the underground laying of optical fiber cable (OFC). These PLB HDPE Ducts are mainly used for the purpose of laying Optical Fiber Cable as underground conduits. The PLB Ducts are regarded with the bright future since the material in use, high density Polyethylene has several advantages. The future of these Pipes can be judged owing to these factors:

Lubrication

Permanently lubricated HDPE Telecom Ducts have special lubricated compound on Inner Side for Conveying Optical Fiber cables with extremely low friction. Coefficient of Friction between the inside of the HDPE Duct and the outside of the inserted communication cable does not exceed 0.06. Properties of Lubricant are Its strongly locked into HDPE. It has same physical/mechanical properties as HDPE except low Coefficient of Friction value which is less than 0.06. Its evenly distributed around the bore and along the length of duct.

Product Applications

HDPE Ducts are suitable for installation in the field dirt trenches, under sidewalks, roads, within communication networks, between communication centres and between cities. They can also be used in branch networks between cells, distribution cabinets, poles, in walls and within subterranean networks of homes, allowing the insertion of optical or copper communication cables.

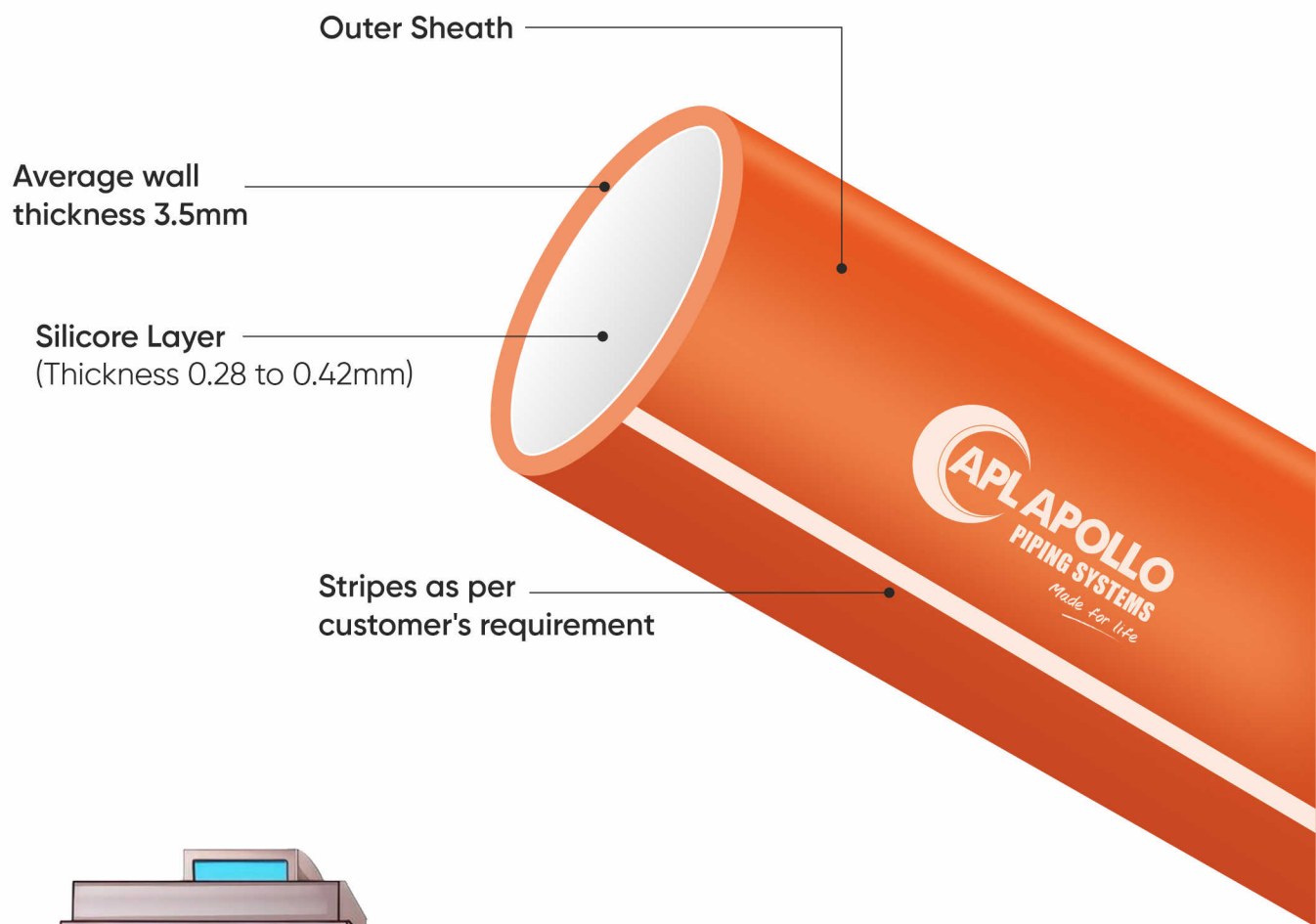
Fittings & Accessories

- Plastic Couplers to join two Duct lengths air tight & water tight.
- End plugs to seal Duct ends prior to the installation of cable.
- Cable sealings plugs to seal Ducts ends after insertion of the cable.
- End caps mad of hard rubber, fitted on both the ends of ducts coil upon manufacturing.

SPECIFICATIONS:

Size Range	32/26 mm, 40/33 mm, 50/42 mm
Color	Red, Green, Orange, Brown, Blue, Black or as per customers requirements.
Straight Lengths	Available in Coils of 1000 / 500 / 200 Meters Length.
Material Grades	HDPE Telecom Ducts are manufactured with the superior grade of High-Density Polyethylene materials. HDPE pipes manufactured meets all the requirements of TEC Specifications as well as IS 4984-1995.

Technical details of 40mm PLB Duct Pipe



TECHNICAL SPECIFICATION FOR 40/33MM PLB DUCT PIPE

Test	Test Method	Specification
Raw Material Test:		
Density	ASTM F 2160	0.940 - 0.955 g/cc
Melt Flow Index	ASTM F 2160	< 0.55 grams / 10 minutes
Test on Finished Product:		
Workmanship	ASTM F 2160	Both Layers of conduit shall be homogeneous throughout and essentially uniform in colour, opacity, density and other properties. The inside and outside surfaces shall be free from visible cracks, holes, blisters, voids, foreign inclusions or other deleterious defects
Dimensions & Tolerances : a) Outside Diameter b) Wall Thickness	Apollo Pipes	40mm + 0.4mm 3.3 mm to 3.7mm
Silicor Layer Thickness	GR No.GR/CDS/ 08/02	0.28mm to 0.42mm
Identification Colour Stripes	ASTM F 2160	Stripe shall be provided as per the customer requirement
Toe-in	ASTM F 2160	Outside diameter at cut end of the conduit shall not be more than 1.5% smaller than outside diameter that measured at 300mm away from the cut end of the conduit.
Friction Reduction	ASTM F 2160	Lubrication materials shall be compatible with the conduit & any cable jacketing
Crush Resistance Test	ASTM F 2412	After deflection of 15% of duct, duct shall recover more than 95% within 2.5 minutes
ESCR	ASTM D 1693	No Cracking when tested with 10% Igepal solution at 50 + 1Deg C for 96 Hrs.
Ovality on th coil	ASTM F 2160	<7%
Tensile Strength	ASTM F 2160 (Type IV specimen as per ASTM D 638)	Min 20 N/ mm ²
Elongation		> 400%
Impact Test	ASTM F 2160	Samples shall not fail when a tup of 9.1 kg (Type B) as per ASTM D 2444) falls freely on the center of the conduit from the height of 1.5 mtrs after conditioning at -20 deg C for at least 1 hours.
Hyro static Strength	ISO 1167	No swelling, leakage or bursting for 165 Hrs @ 3.5 Mpa at 80 Deg C
Carbon Black Content	ISO 4427-2	Carbon black content shall be 2.5 + 0.5% in outer sheath of duct
Carbon Black Dispersion	ISO 4427-2	Carbon black dispersion shall uniform for black compound.
Reversion Test		Reversion not be more than 3% when test performed as per the specifications
Internal Co-efficient of Friction		<0.6
Identification Marking	As per Apollo Specification	identification of marking shall be provided in contrast to base colour of duct with Ink jet printer as per customer requirement

ABOUT APOLLO PIPES LIMITED

Apollo Pipes Limited (APL Apollo) has emerged as a leading name over the past 35 years, characterized by dynamism and a steadfast commitment to quality with an eye towards the future. Our vision is centered on delivering premium quality products at accessible prices, whether it's pipes and fittings, bathroom fixtures, or water tanks. APL Apollo consistently upholds this commitment, earning the trust of our customers.

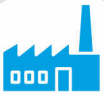
We hold a significant presence across key sectors nationwide, including Plumbing, Sanitation, Water Supply, Infrastructure, Agriculture, Oil & Gas, and Construction. Our comprehensive range of piping systems and accessories caters to individuals aspiring to create elegant homes without compromising affordability, positioning us as a highly sought-after brand.

With six manufacturing plants strategically located in Dadri (UP), Sikandrabad (UP) and Varanasi (UP), Ahmedabad (Gujarat), Bangalore (Karnataka), and Raipur (Chhattisgarh), boasting a production capacity of 1,30,000 MTPA, APL Apollo has established a Pan-India footprint.

Backed by over 1000 channel partners and 40,000 customer touch points, our extensive product range and substantial production capacity enable us to meet diverse needs, from individual consumers to retailers, traders, exporters, and distributors. Designed with Indian aesthetics in mind and built to withstand rough usage, our products cater to both urban and rural markets.

We adhere to international quality standards in manufacturing a wide array of plumbing solutions, including CPVC Pipes & Fittings, uPVC Plumbing Systems, uPVC SWR Piping Systems, uPVC Pressure Pipes & Fittings, PPR-C Plumbing Systems, uPVC Column Pipes, Well Casing Pipes, HDPE Pipes, HDPE Sprinkler Systems, Newly Launched PVC-O Pipes, Adhesives, Water Tanks and Wide range of Bath Fittings, with a portfolio boasting 2500+ SKUs, APL Apollo offers the widest range of products in the Indian market.

APL Apollo remains dedicated to addressing all consumer needs comprehensively. We offer an extensive range that is affordable, durable, and safe, ensuring customer satisfaction in every way possible.



6

MANUFACTURING
PLANTS



1000+

DISTRIBUTION
PARTNER



1,30,000

MTPA CAPACITY AS ON 31ST
DECEMBER 2022



40,000+

CUSTOMER TOUCH
POINTS

**NEVER
CRACKS UNDER
PRESSURE**



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CPVC | uPVC | Agri | SWR | PPR-C | Garden Pipes | Bath Fittings | Adhesives | Water Tanks