



PLB – Cable DUCT



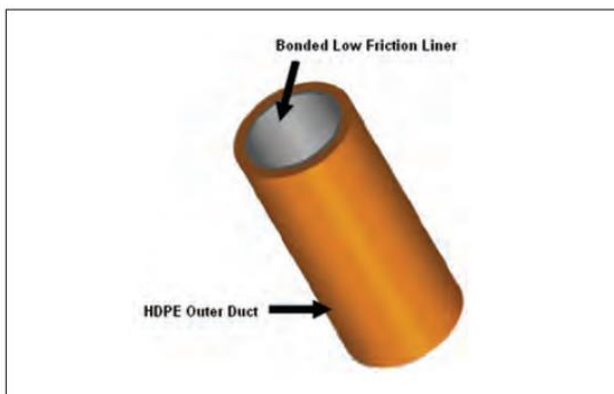
TELECOMS

HDPE Duct and Sub Duct Systems

These systems provide a flexible duct in continuous lengths up to 3000m to allow easy, safe and rapid placement of fibre optic cable in main trunks and customer drop applications alike.

- Duct is made from high quality HDPE and features a bonded low friction dry liner, to enable easy cable placement.
- HDPE ducts are supplied in coils or on returnable drums (wood or metal).
- Finished product is supplied capped ensuring the ends are watertight to prevent ingress of contamination or foreign bodies likely to cause problems when cabling.
- Ducts are available with a standard 8kN pull-rope pre-installed.
- Duct is marked as standard at one metre intervals as follows:
 - Incremental Metre-Mark
 - Manufacturers product code
 - Production Date
 - Size of duct
 - Customer name and / or other special designations
- Colours variations / colours and stripes are also available on request
- For multiple sub duct requirements one to five way drums are available

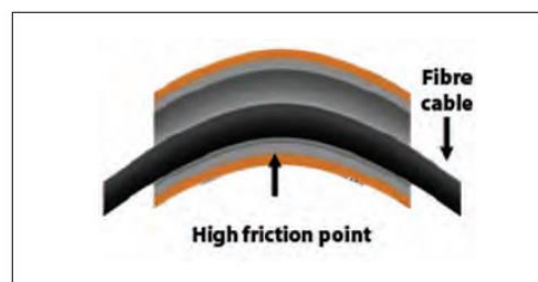
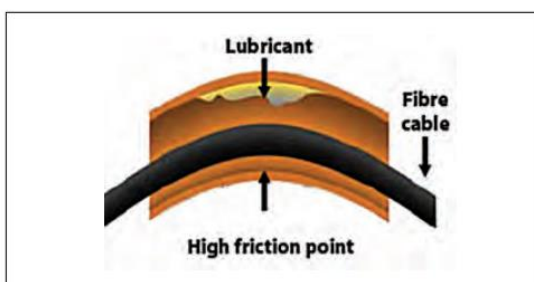
A full range of connectors, termination and cable placement ancillary products are available.



Features:

- Rapid Deployment technique
- Reduces overall network construction and activation costs
- Bespoke requirements can be accommodated
- Cable blowable
- Cable installation utilising the pre-installed pulling rope
- Provides a dedicated cable path
- Reduces the risk of damage to fibre optic cables

How the Entelle Bonded Low Friction Liner Works.



TECHNICAL DATA Premium Grade (nominal unless otherwise stated)

SIZE		SDR	Mean outside Diam NOM	I.D. nom	Wall Thick- ness Nom	Mass nom g/m	Max Pull	
OD	ID						kg	kN
25	20	10.0	25	20	2.5	168	170	1.7
25	21	12.5	25	21	2.0	139	140	1.4
32	26	10.7	32	26	3.0	260	260	2.6
32	27	12.8	32	27	2.5	220	220	2.2
32	28	16.0	32	28	2.0	179	180	1.8
40	32	10.0	40	32	4.0	425	430	4.3
40	33	11.4	40	33	3.5	381	370	3.7
50	41	10.9	50	40.8	4.6	612	610	6.1
50	42	13.5	50	42.6	3.7	544	540	5.4

Deploying Emtelle's CID offers several key advantages including, but not limited to, shorter installation time, reduced logistics and improved quality due to the elimination of cable pulling. Due to the use of high quality Emtelle sub duct the CID solution is ideally suited to installation via mole plough.

The size and type of cables used vary depending on customer requirements, the table below lists some of the typical configurations used.



FIBRE CABLE			DUCT OD & ID				
	count	Typ diamt	31/25	32/26	40/33	50/42	63/50
Traditional fibre cable	12f	10.1	✓	✓	✓	✓	✓
	24f	10.9	✓	✓	✓	✓	✓
	48f	13.1	✓	✓	✓	✓	✓
	72f	13.1	✓	✓	✓	✓	✓
	96f	12.5	✓	✓	✓	✓	✓
	144f	14.5	✓	✓	✓	✓	✓
	192f	15.3	✓	✓	✓	✓	✓
	288f	18.5	x	✓	✓	✓	✓
	576f	22.8	x	x	✓	✓	✓

PLB Coupler (Push-Fit)



Compression Connector



Duct Compression Plug



Simplex Plug

PLB Coupler

- Best Quality HDPE PLB Duct Accessories using 100% Virgin Raw Materials,
- Pass through stringent lab tests like...Pull Test, Pressure Test etc.
- as per the **TEC Specifications**



PLB Duct Coupler (Push Fit)

Product Details:

Application	HDPE Duct
Color	White
Size	40 mm // 32 mm // 50 mm
Pressure Rating	15 Bar
Range	Socket
Hydrostatic Test	15 Bar
Surface Finish	Smooth
Type	Push Fit Type
Working Pressure	15 Bar
Pressure	15 Kg/cm ²
Pulling Force	320 kgf

PLB Duct Couplers are used for jointing two HDPE ducts together and provide Air Tight and Water Tight leak-Proof joint ensuring smooth and safe cable blowing. Couplers supplied by us are manufactured using Virgin Grade Raw Material and known best for its Quality.

Features:

- Easy Installation
- UV Stabilized
- No Tools Required for Installation
- Corrosion Free
- Totally Air Tight, Water Tight and Leak Proof

Available Sizes:

32 mm → Suitable for - 32/26 mm HDPE PLB Duct
40 mm → Suitable for - 40/33 mm HDPE PLB Duct
50 mm → Suitable for - 50/42 mm HDPE PLB Duct

PLB Duct Cutter

- Best Quality HDPE PLB Duct Accessories using 100% Virgin Raw Materials,
- Pass through stringent lab tests like...Pull Test, Pressure Test etc.
- as per the **TEC Specifications**



Product Details:

Size	32 mm / 40 mm / 50 mm – PLB Duct Suitable
Usage/Application	Plastic Pipe (HDPE) Cutter
Warranty	3 Months
Size (Inch)	32mm / 40 mm / 50 mm
Color	Red, Yellow
Material	Carbon Steel
Surface Treatment	Painted

Duct Pipe Cutters are used for cutting all type of plastic Pipes very smoothly including HDPE Duct, PPR Pipes, PP Pipes, HDPE / MDPE Pipes etc. Pipe Cutters are of Scissor Type and Rotary Type. Manual Plastic Pipe cutters are suitable for cutting Plastic pipes. The cutter range is designed and manufactured in adherence with the set industry norms using highly developed technology and optimum quality raw materials at vendors' end. In tune with industry quality standard, we provide this cutter in various sizes and specifications, as per the need of our clients.

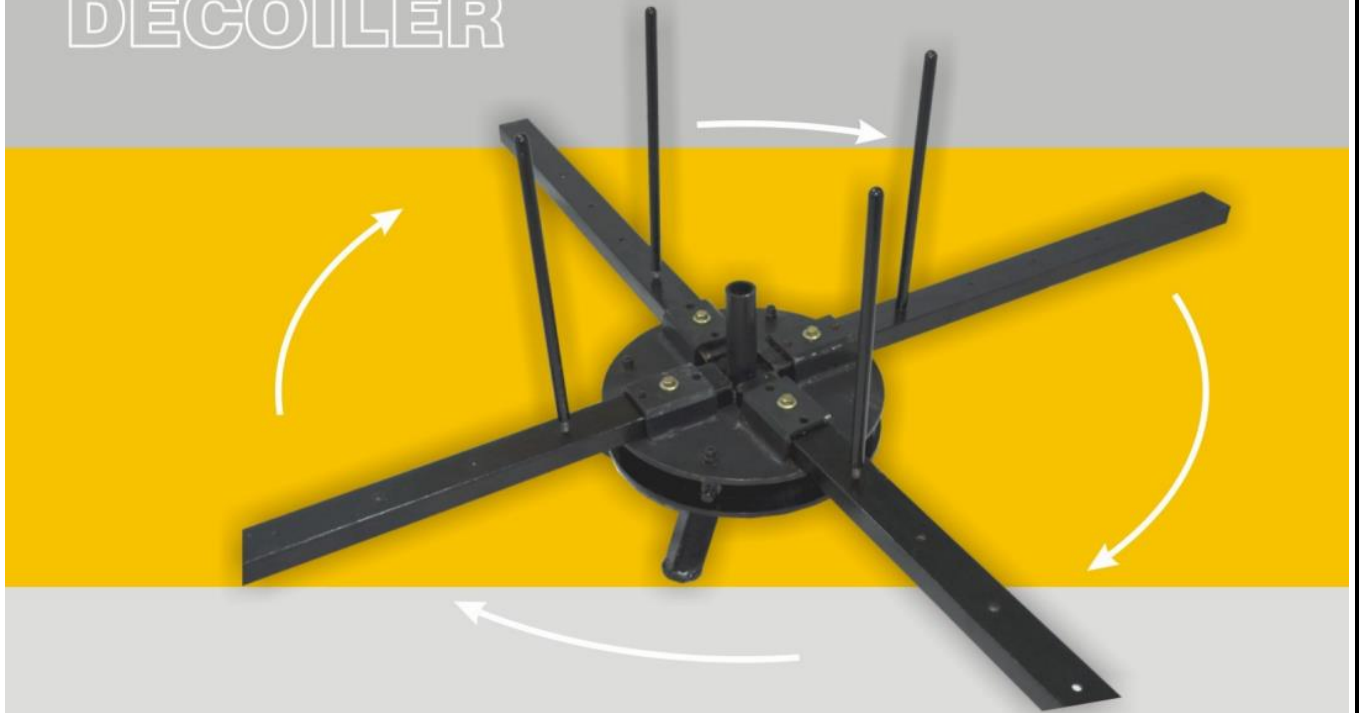
Suitable for cutting PVC polyethylene pipe and synthetic resins and heat treated blade cuts many pieces without any trouble, our vendors' quality examiners perform a series of test on different parameters, in order to ensure the quality of this cutter.

Available Sizes:

32 mm → Suitable for - 32/26 mm HDPE PLB Duct
40 mm → Suitable for - 40/33 mm HDPE PLB Duct
50 mm → Suitable for - 50/42 mm HDPE PLB Duct

PLB Duct De-COILER

DRUM & DUCT DECOILER



De-coilers are used to coil and de coil optical fibre cables from cable drums easily. Being easy to rotate, this de-coiler while working in the horizontal position, ensures proper release of the cable from the drum. It is especially useful in the conditions where the coil drums are damaged or collapsed. Also used for decoiling HDPE Duct.

Weight Bearing Capacity:
upto 800kg

Radius of the Coil:
upto 850mm

- Complete Dissemble & Re-Assemble.
- Easy to carry.
- Effortless de-coiling.
- Fast and easy operation
- Special purpose bearing for smooth rotation

PLB Duct – LUBRICANT **(OFC – Optical Fiber Cable – Suitable)**



**FIBER OPTIC
CABLE
BLOWING
LUBRICANT**



LUBRI-DUCT™
Blow with ease

Use it as a pre-lubricate the duct in which the cables are to be installed. It will make cable blowing easy, which will result in better output.

Product Features:

- Low Friction – Increases blowing distance.
- Easy to Use – Squeezed into the duct before blowing fiber optic cable.
- Tested and Approved – Recommended by most blowing equipment manufacturers.
- Winter Grade Available – Can be used in sub-freezing temperatures.
- Compatible with Cable Jackets – Avoid weakened or cracked fiber optic jackets.
- Multiple Use – For blowing fiber optic cable and microducts.
- Proven – Used over 20 years in the installation of over 500,000 km of cable.

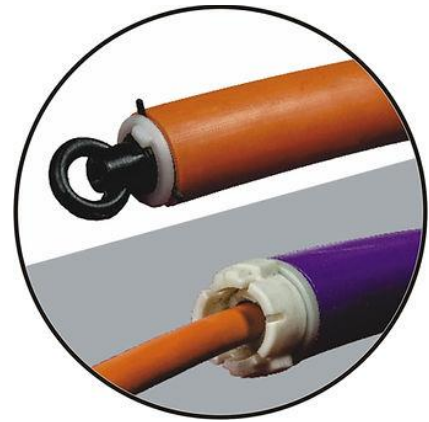
The squeeze bottle is popular for field use.

Duct Size	Lubricant Quantity per 1000 feet	Lubricant Quantity per Kilometer
1 in/2.5 cm	3 fl oz	300 ml
1.25 in/3 cm	4 fl oz	400 ml
1.5 in/4 cm	5 fl oz	500 ml
2 in/5 cm	6 fl oz	600 ml

For smoothwall duct 1 – 1.25 in/2.5 – 3.0 cm inner diameter and piston type machines, use 5 to 10 fl. oz. per thousand feet of duct/0.5 to 1.0 liter per kilometer. Place 75% of the lubricant in front and 25% behind the missile. The lubricant is spread by the missile as the cable is blown. The quantities of lubricant appropriate for any job will vary with the size, type and condition of the duct. Use the recommendations above as a place to start and adjust as necessary.

PLB End Plug (Ring Top)

- Best Quality HDPE PLB Duct Accessories using 100% Virgin Raw Materials,
- Pass through stringent lab tests like...Pull Test, Pressure Test etc.
- as per the **TEC Specifications**



End Plug For 40/33 mm HDPE Duct

Product Details:

Application	End Plug
Size	40 x 33 mm // 32 x 26 mm // 50 x 42 mm
Material	HDPE
Color	White/Black
Application	End Plug
Usage/Application	HDPE PLB Duct
Is It ISO Certified	ISO Certified
Max Normal Working Temperature	70 deg C
Min Normal Working Temperature	-40 deg C
Working Life	More than 30 Years

These End Plugs are used to Seal or Close the HDPE PLB Duct Ends before installation of Cable so as to prevent the foreign matter particles like Dust etc. to enter the Duct. Our products are available in different sizes with optimum quality and highly long-lasting. Our products are reliable in nature.

Available Sizes:

32 mm → Suitable for - 32/26 mm HDPE PLB Duct
40 mm → Suitable for - 40/33 mm HDPE PLB Duct
50 mm → Suitable for - 50/42 mm HDPE PLB Duct

PLB Locator (PLB Duct Locator)



- 1 :- FIBER IDENTIFIER :- Red Light Source All-In-One; Online Test Without Changing Fixtures Three Signal Frequencies Can Be Identified; 10mw Red Light Source/direction/indicator Power Display/ 270/1k/2khz /Led Lights/10mw Vfl
- 2 :- ERGONOMIC DESIGN :- When Holding the Machine Index Finger Press the Back Ctrigger Switch, Clamp the Fiber Optic Cable to Automatically Start the Test Press Down to Clamp the Fiber Optic Cable
- 3 :- HIDDEN RED LIGHT SOURCE/LED LIGHT :- Stable and Strong Speed of Light Concentration, Effectively Cooperating with Line Detection Flip in the Direction of the Arrow to Open 10mw Red Light Source Led Lights(long Press the Vel Button to Turn on the Led Light)
- 4 :- MICROBEND TEST TECHNOLOGY :- Accurately Identify Fiber Direction When the Optical Fiber Has a Signal, the Left and Right Direction Lights Show the Signal Direction the Left Direction Light Is On, Indicating That the Light Source Is from Right to Left
- 5 :- Universal Fixture Design / Power Display / Direction Recognition / Switch / Db/dbm Unit Cutover / Led Button / Vfl Button / Vfl Connector /Trigger Switch

PLB Rodder

DUCT RODDER



Color

Yellow

Line Length

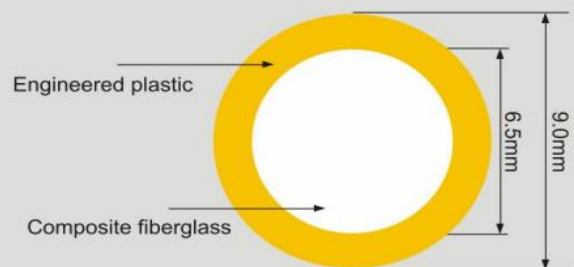
50-350 m

Usage/Application

Telecom Cable, Power Cable, etc

- FibRod - FRP Duct Rodder is a very high quality cable pulling equipment& It's design make it compact and easy to carry.
- Tensile Strength of Rodder is the USP of our product. With more than 500 kg tensile strength, it can easy pull any cable into conduit / duct / pipe
- The frame of FRP Duct Rodder is made from very high quality metal, suitable for rough handling at complicated sites. It's anti rust coating gives it long life.

Fibro - duct rodder to pull cable or rope in ducts or pipes. It is made of an inner core rod of fiberglass composite, which is covered on top with a very durable sheath of high-density polyethylene engineering plastic. High tensile strength and flexibility allows it to move through narrow conduits and ducts. Its outer protective layer of engineering plastic is smooth, scratch resistant and has an anti-UV capability. It also safeguards the inner rod from mechanical damage. Fibro can be used to thread any kind of cables such as Telecom, Fiber Optic, CORD, Networking, power cable and other types of cable through conduits easily.



MINI
DUCT
RODDER

DUCT RODDER

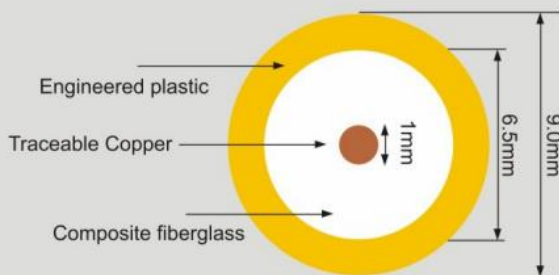
Available Sizes

Outer Diameter (mm)	FRP Diameter (mm)
14.00	11.00
11.00	8.00
9.00	6.50
6.50	4.50
4.50	3.00
3.00	1.50

TRACEABLE DUCT RODDER

Fibro Chaser - traceable duct rodder are used for inspection, locating fault, blockages and cleaning of ducts or conduits with the help of locator.

It is made of an inner core rod of fiberglass composite embedded with a copper wire and is covered on top with a very durable layer of high-density polyethylene engineering plastic.



TRACEABLE DUCT RODDER

Available Sizes

Outer Diameter (mm)	FRP Diameter (mm)
11.00	8.00
9.00	6.50



Light weight



Aging Resistance



Durable



Corrosion resistance



Resistance to acid & alkali

- Customised lengths available
- Customised Colour options available

PLB Rodo Meter (Distance Measuring Wheel)



Key Features

- Extremely Lightweight & Durable.
- Mechanical 5 Digit Counter.
- Equipped with Folding Wheel Mount, Two-Section Telescopic Handle & Complimentary Carry Bag.
-
-

Product Specifications

Circumference Range	1 metre
Measuring Range	10000 m

Product Details

10000m Plastic Measuring Wheel. This is a plastic measuring wheel that has a measuring range of 10000 m and a circumference range of 1 metre. It is one of the most affordable measuring wheels on. It is made of high quality materials that make it durable and long lasting. It is easy to use and can give you an accurate measurement of any area.

PLB Simplex (CSP – Cable Sealing Plug)

- Best Quality HDPE PLB Duct Accessories using 100% Virgin Raw Materials,
- Pass through stringent lab tests like...Pull Test, Pressure Test etc.
- as per the **TEC Specifications**



- **Models** → Plug 48 F (Regular) // 96 F // 288 F

PLB Simplex (CSP – Cable Sealing Plug)

Product Details:

Dimensions	32 mm OD to 50 mm OD
Warranty	6 Months
Application	HDPE PLB Telecom Duct
Size (Inch)	32/26, 40/33, 50/42
Shape	Round
Usage/Application	HDPE PLB Telecom Duct
Color	Black,White
Working Pressure	6 Bar

Simplex Plug, also called as **Cable Sealing Plug** is used with HDPE PLB Telecom Duct to seal the ends of Duct after Cable is installed in duct to stop ingress of foreign material like Dust, Moisture, Rodents, water etc.

Features

- **Water-Tight and Air-Tight**
- **Simple Installation**
- **Seals Cables in PLB Duct properly**
- **Capable of accomodating standard size of Optical Fibre Cables**
- **Available for various duct sizes like 32/26 mm, 40/33 mm, 50/42 mm**

Available Sizes:

32 mm → Suitable for - 32/26 mm HDPE PLB Duct
40 mm → Suitable for - 40/33 mm HDPE PLB Duct
50 mm → Suitable for - 50/42 mm HDPE PLB Duct

WARNING Tape / CAUTION Tape (Telecom)



Color	Yellow / Orange
Material	Polyethylene
Thickness	200 micron
Roll Length	200 meters
Marking	Warning, Telecom Cable Below

Warning Tape or caution tapes are polyethylene non-adhesive tapes for laying along with electric cables, optical fiber cables, and other utility lines at underground. There is a need to give a suitable warning while digging work by any agency to protect the cables or utility lines against damage.

Premium Quality: warning tape, caution tape, or underground cable warning tapes are made from virgin grade LDPE material with antioxidants and other additives using co-extrusion technology.

Customized Printing: PE caution tape comes with a constant repeated, printed warning with "Warning, Buried Telecom Cable Below"/"Caution, Buried Fiber Optic Line Below"/Warning Electrical Cable Below." also can be customized as per the customer's requirement.

As per Standards: Warning tapes are manufactured as per TEC/GR/CIM and IS Specification.

Easy To Install: Bury warning tape 30 cm above the cables and other utility installations so that it is dug up before reaching a depth that could cause damage to the line or person working.

Long Life: The expected life of Warning tape along with mark while underground is Approx 25 yrs.

For Warning purpose Only: The Cable Warning tape only serves the purpose of warning and does not protect the cables.

Underground CAUTION TAPE / WARNING TAPE prevents damages when digging work:

- Robust, durable material (Bright visible color with bold, long-lasting printing)
- Highly resistant to acids, alkalis, and other soil components
- All-weather Resistant (100% waterproof)
- Heavy-duty construction and Tear-resistant