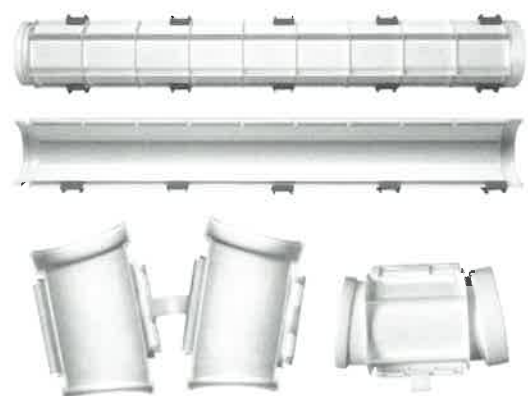


## PROTECTIVE SPLIT DUCTS

The split duct has been developed for protection of provisional arrangements, cables and cable joints, repair of empty ducts or ducts occupied with cables. The product consist of two half shells manufactured from high-quality HDPE. This protective system is placed in a trench in a 2x U shaped pieces and the cables are then laid into the duct. Once the cables are laid, the other half of the ducting system is closed and simply snaps into place and is locked by up to 6 side clamps. This makes installation and protection of buried cables easier, quicker and more cost effective. The ducting system can also be placed above ground or in ceilings and comes in different colours and lengths of 1 meters, including bends for both diameters 200/160 mm and 160/110 mm. The split ducts are reusable.

Typ	Basic piece 1 m	ø mm	Weights ks/piece
		DN 110	1,9
		DN 160	3,2



Typ	Bend piece 15°	ø mm	Weights ks/piece
		DN 110	0,88
		DN 160	1,3



## DOUBLE WALL CORRUGATED PIPE

HDPE corrugated pipe is the proven, reliable, cost-effective and safe solution for your cable protection. Pipes can be produced in wide choice of external colours, which makes it possible to identify various uses for the tubes. Due to the material quality it has good impact resistance mainly at low temperature, there is practically no loss of length on sites during various handling operations, loading, laying the tubes in position in trenches. Pipes are produced in Bars or Coils.

### Bars

- Choice from various colours
- Standard lengths 6 or 12 m
- The tubes are supplied with a coupler mounted at the end as standard
- Black line marking at the end of the bar allows the user easily check the penetration to the middle of the coupler



### Coils

- Supplied in Red Colour. Other colour upon request
- Raw material HDPE/MDPE
- Profile: ribbed exterior – smooth interior for flexibility control
- All the Coils are supplied with a pulling cord in PP
- Standard lengths: 25 m or 50 m



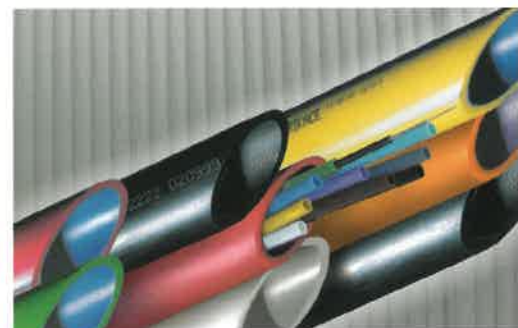
## Tubes and Microtubes





# PROTECTION TUBES PE-HD FOR TELECOMMUNICATION

SITEL Ltd. is traditional producer and supplier of protective tubes on the bases of high-density polyethylene (PE-HD -further only „HDPE“ ) for the protection of optical cables in telecommunication lines. For production and testing of the tubes is valid the norm comprising inquiry CZ and International norms. For specific customer requests can be technical parameters and business conditions prepared due to needs of possible business partners. Quality of HDPE tubes are tested in own laboratories of factory TIU Plast a.s. and by certified independent testing Labs or Institutes for example Institute for Testing and Certification a.s. Zlin or Electrotechnical Test Institute Prague.



## Dimensions

outside diameter mm	inner diameter mm	wall thickness mm	weight 1m kg
25	20,4	2,3	
32	26	3,0	0,28
32	27	2,5	0,24
40	33	3,5	0,40
50	41,6	4,2	0,64

## Colour modification

We are generally able to deliver ducts in all required colours according to customer's demand, specify by standard colour scale RAL. The colour type hasn't any influence for product price. We are able to make special UV stabilization in case of customer's request /extra additional tax/.

## Identification symbols and printing

Ducts are available either without stripes or with 4 x 1 strip (alternatively 4 x 2 strips) The colour contrast strips are situated along the tube regularly on the tube circuit in angle 90 °C. The ducts are ordinarily labelled by contrast stable printing, identification of length, producer /supplier, customer/ dimension, type of raw material, date of production or possible internal identification code.

## Performance

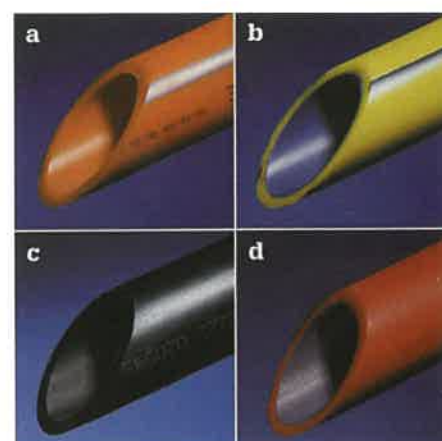
Ducts are in principle delivered with a smooth outside surface without scratches and grooves. Performance of inner surface secure low level of friction coefficient which makes easier blowing or pulling of cable. There is possible to choose one of the following basic variants of inner wall performance.

- smooth, lubricated by silicon oil (a)
- smooth, lubricated by co-extruded layer of polymers (b)
- ribbed, no-lubricated (along grooves for example high 0,45 mm, width 1,20 mm, angle 110°, count 104 for Ø 40/33) (c)
- ribbed with co-extruded layer of polymers (d)

Duct for pulling technology of fiberoptic cable is also available with pre-installed twine with diameter 2 mm and with tensile strength min.120 kg. Duct's ends are always equiped with protection caps secure the empty tube against dirt and moisture penetration before cable installation.

## Packing

The way of packing is part of business contract /on wooden drums or in a coils/.



# MICROTUBES



This product is suitable for microtubing technology, when bundle of microtubes is blown into empty HDPE tube and then fiberoptic microcabel is blown into single microtubes. This technology is used for construction of fiber optic lines and networks. The microtubes are produced in standard form with wall thickness 1 mm, suitable for blowing into empty HDPE tubes. This type of the microtube is not suitable for direct installation under ground. The second type of microtubes is microtube with reinforced wall thickness 2 mm which is possible directly install underground without additional protection.

## Standard microtubes

outer Ø	inner Ø
5 mm	3,5 mm
7 mm	5,5 mm
10 mm	8 mm
12 mm	10 mm

## The microtubes with reinforced wall thickness:

outer Ø	inner Ø
7 mm	3,5 mm
10 mm	5,5 mm
12 mm	8 mm
14 mm	10 mm



## Using of microtubing

There is possible to build several independent fiberoptic lines in one protection HDPE tube. We can this way prepare fiberoptic lines for employment in the future. This technology can be used primarily in City centres, business and industrial zones, administration City zones and the others agglomeration.

## Accessories

We offer for connection, branching or ending of microtubes various sizes of Straight connectors, End caps including Locking clips. We recommend to use Locking clips for security against pulling out of microtubes. There are also mechanical closures of various types I, Y or T for protection, splicing and branching of bundle / single of microtubes. We are ready to prepare complete project solution according to customer needs.