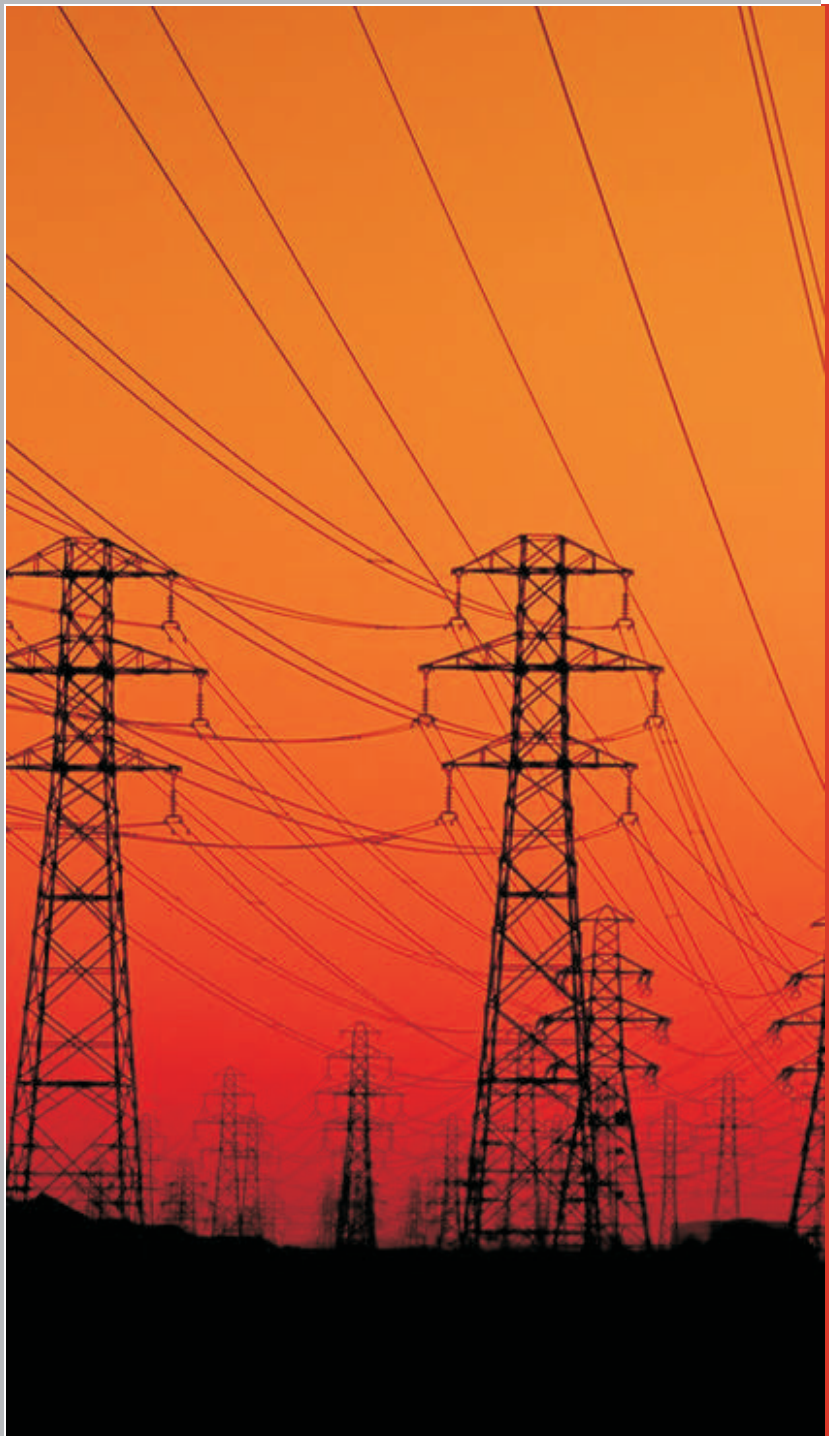


MAPITEL - cable tubes
double walled, smooth on the inside

MA **PI**
PI PE



MAPITEL - cable tubes

double walled, smooth on the inside



Use and description

MAPITEL double walled cable tubes are manufactured from high density polyethylene and are used as cable protection for the following installations:

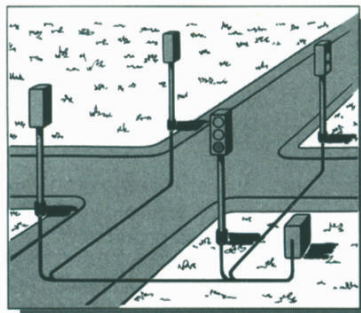
ELECTRICITY DISTRIBUTION: high and low voltage lines.

TELECOMMUNICATIONS: optical cables, TV - multimedia lines.

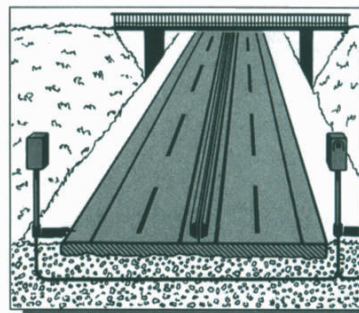
ROAD SIGNALLING

RAILWAY SYSTEMS

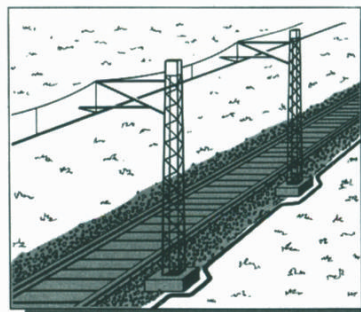
It is composed of two mutually coextruded tubular elements: the outer ribbed element (to ensure higher surface pressure resistance, extremely low weight and flexibility) and the inner smooth surface element (to ensure easier installation of cables). Due to a special coextruding procedure, the possibility of the two layers separating does not exist.



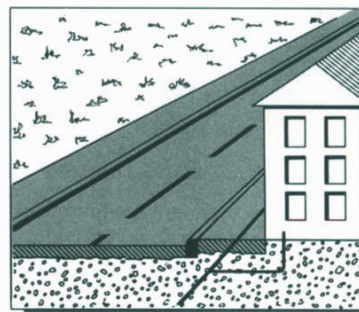
Road signalling



Motorway



Railway



Telecommunications

MAPITEL double walled cable tubes

Dimension	Inner diameter (mm)	packing (m)	packing type
40	32	50	coil
50	41	50	coil
63	51	50	coil
75	62	50/6	coil/bars
90	75	50/6	coil/bars
110	92	50/6	coil/bars
125	106	50/6	coil/bars
140	121	50/6	coil/bars
160	140	50/6	coil/bars
200	180	25/6	coil/bars



MAPITEL - cable tubes double walled, smooth on the inside

MAPITEL

Characteristics and advantages

- MAPITEL double walled cable tubes are in compliance with the EN 50086-2-4 European norm and classified according to CEI-23-46.
- MAPITEL cable tubes can also endure surface pressure tests according to the CEI-23-29 for both, 450 N and 750 N.
- Shock resistance to -25°C .
- Perforation resistance to -15°C .
- It is stable in the temperature range between -50°C up to $+90^{\circ}\text{C}$ without changes to its basic characteristics.
- Electrical insulation resistance is higher than 100 M Ω .
- Electrical resistance is higher than 800Kv/cm.
- Resistance to chemicals.
- Special preparation of excavations for installation of the tubes is not necessary.
- Tube's flexibility enables easy installation on all types of terrain, as well as all declines of terrain and enables easy avoidance of obstacles without use of bends and other additional elements.
- It can easily absorb dents caused by rocks and other shocks without any damage to performance
- It can be easily installed in any type of terrain: wet, damp, aggressive...
- The low weight of the pipes enables easy storage, transport and installation.
- Tubes are joined with a simple coupling that does not require pasting.
- Tubes are produced in two standard colours:
 - red - electrical installations
 - yellow - telecommunications

With the possibility of additional different colouring of the tubes with the purpose of separation of installed cables for previously agreed quantities.

- MAPITEL pipes are produced in two standard lengths: 50 m in coils with a draw-out cord or in 6 m bars, including one coupling per bar for connecting.



MAPITEL - cable tubes

double walled, smooth on the inside



Excavation filling-up

Filling-up of an excavation is a very important operation in installation of cable tubes and must be performed according to the picture on the side. This enables the tube system's reactions to terrain deformations. The first layer is filled up with sand so that the sand encloses the tube.

Excavations classification

Narrow excavation (recommended) is the best choice for installation of cable tubes. Width of the excavation should be $3D$ (D =diameter of the tube).

Wide excavation: the load on the load on the cable tubes is greater than with the narrow excavation. Width of the excavation should be 3 to 10 D .

Excavation depth

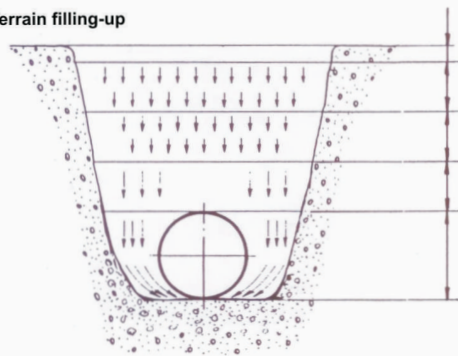
Road traffic $H = 1$ m

Other instances $H = 0,5$ m

We recommend minimal excavation depth of $H = 0,8$ m.

We have acquired Slovenian technical approval STS-06/098.

Terrain filling-up

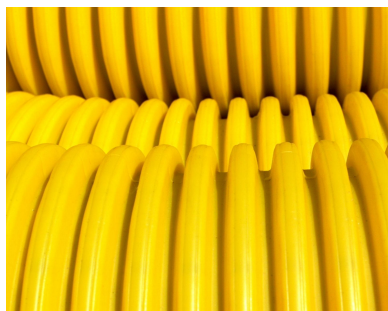
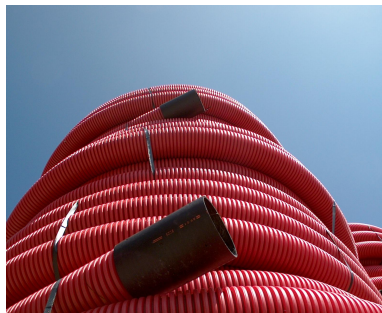
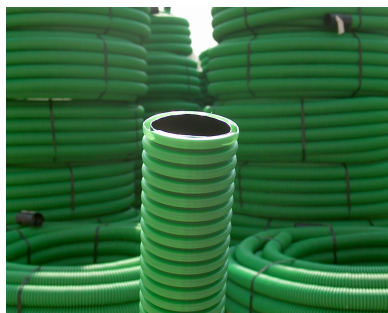


4th layer - vegetal soil layer

3rd layer - second filling

2nd layer - first filling

1st layer - first filling around the tube



Manufacturer reserves the right to make potential technical changes.

MAPI
PIPE

trgovsko in proizvodno podjetje d.o.o.

Gorenjska cesta 9 | 1234 Mengeš

tel.: +386 5 9098 700

fax: +386 5 9098 718

e-mail: info@mapipipe.si