

InstalPlast

SYSTEMY RUROWE PVC – PE – PP

CATALOG

Casing
Pipes

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— Catalog —

Purpose

These pipes serve as a mechanical sheath for power cables, electrical wires, telecommunications cables, traction signalling, cable television and other cables and wires. They are designed to protect cables laid in the ground. The properties of the pipes allow them to be laid in different soils and with different slopes. High flexibility allows avoiding obstacles along the pipeline route and mitigating the effects of land subsidence. Pipes can be laid in irrigated and chemically aggressive soils.

Asortyment

Casing pipes for cables by InstalPlast Łask are manufactured in accordance with PN-EN 61386-24 regarding "Installation pipe systems for conducting cables". It defines the conditions of pipe resistance to deflection and impact loads. According to the current standard, casing pipes laid in the ground must have compression and impact resistance classes - 450N for installation pipes classified as type 450. Casing pipes for cables by InstalPlast Łask are manufactured according to the classification:

- ✓ DK/G - corrugated double-walled with fittings and ropes, flexible
- ✓ DK/P - corrugated double-walled with fittings and ropes, in straight sections
- ✓ DKU/G - corrugated double-walled with fittings, ropes and seals, flexible
- ✓ DKU/P - corrugated double-walled with fittings, ropes and seals, in straight sections

On request, we offer pipes with gaskets and stabilized with increased resistance to UV radiation.

Pipes are offered in coils with a length of 50 m (DN 50, 75, 110) and 25 m (DN 75, 110, 160) or in straight sections with a length of 6 m (DN 110, 160).

Colours

Casing pipes for cables by InstalPlast Łask are produced in blue and red as standard. Custom colours are available to order.

Material

High density polyethylene PE-HD is used for the production of pipes and fittings. It is a raw material with excellent chemical resistance, which means that it is not attacked by strong acids or strong alkali and is also resistance to mild oxidizing and reducing agents. It is also characterized by high resistance to shock loads that may appear at the stage of system design and a large range of operating temperatures (from -30°C to +75°C) allowing work at any time of the year.

Installation

Pipes connection is made in a simple and convenient way using fittings. The rope placed inside the pipe facilitates pulling the cables and the gasket ensures tightness of the laid pipeline.

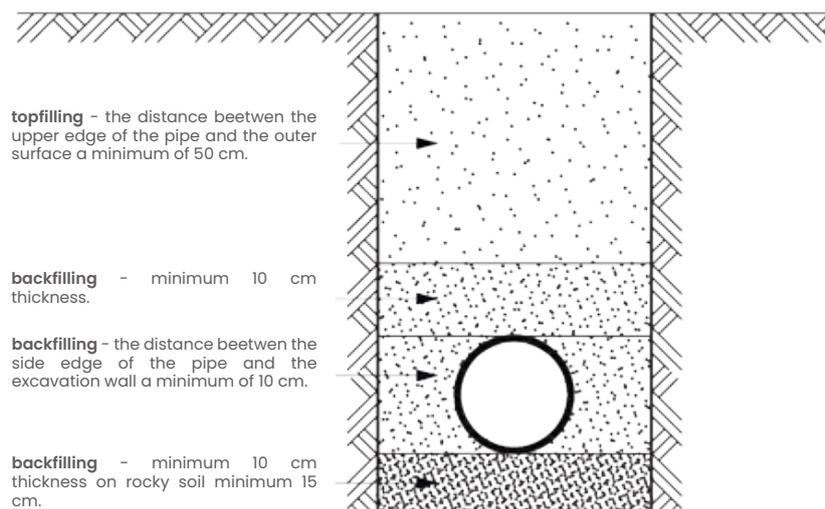
Rules for laying pipes in the trench

InstalPlast task casing pipes can be installed in narrow or wide trenches and in embankments. Recommended depth of foundation of a pipe in a trench is minimum 0,6 m and in the case of heavy traffic no less than 1 m. If it is not possible to lay the pipeline at the recommended depth, protect the pipes against excessive loads.

The preferred type of excavation for casing pipes is a narrow excavation due to the more favourable distribution of forces acting on the pipe. In this case, the intact walls of the excavation absorb some of the external loads. The width of the trench depends on the size of the pipe. A minimum clearance of 10 cm is required between the side walls of the trench and the casing pipe to enable backfilling. At the bottom of the excavation, minimum 10 cm of backfilling should be made, and minimum 15 cm on rocky soils. The best material for its implementation is gravel or a mixture of sand and gravel, free of stones or particles larger than 15 mm. Laying pipes on concrete benches is prohibited. After laying the pipe in the excavation, make a backfill, then topfill (min. 10 cm) of sand or fine gravel. Lay it out exactly on the sides and on top of the pipe, then compact. The next step is to fill the excavation. The proper cooperation of the pipe with the ground is ensured by gradual filling of the excavation with layers. Individual layers should be 15-20 cm thick. To fill the excavation, you can use soil remaining after the excavation without stones above 10 cm and organic elements.

If the type of soil does not allow for a narrow excavation, a wide excavation can be made. It is applicable on sandy and gravelly soils. The loads acting on the pipes in this case are higher, and therefore, when designing the pipeline, this should be taken into account for safety reasons.

Piping layout in the ground - cross section of the excavation



Transport and storage

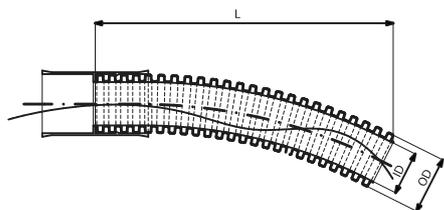
The general rules for the storage and transport of plastic pipes should be applied. The storage height cannot exceed 3 m. **The period of storage in open spaces without roofing or other additional protections is a maximum of 3 months from the date of purchase.** Storage for more than 3 months requires UV protection.

CASING PIPES FOR CABLES HDPE 450N

**DK/G - corrugated
double-walled, flexible**



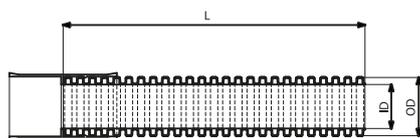
Diameter	OD	ID	Packaging
[mm]	[mm]	[mm]	[m]
50	50	39	50
75	75	61	25, 50
110	110	92	25, 50
160	160	137	25



**DK/P - corrugated
double-walled, straight sections**

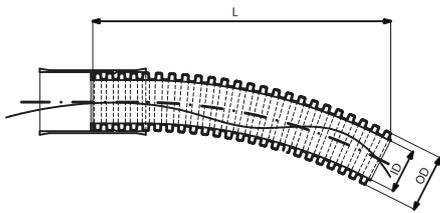


Diameter	OD	ID	Packaging	
[mm]	[mm]	[mm]	[m]	[pc.]
110	110	92	6,0	48
160	160	137	6,0	20



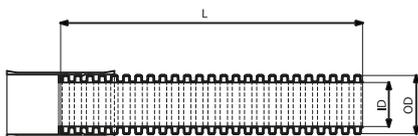
CASING PIPES FOR CABLES HDPE 450N

DKU/G - corrugated double-walled, flexible



Diameter	OD	ID	Packaging
[mm]	[mm]	[mm]	[m]
50	50	39	50
75	75	61	25, 50
110	110	92	25, 50
160	160	137	25

DKU/P - corrugated double-walled, straight sections

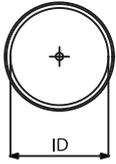


Diameter	OD	ID	Packaging	
[mm]	[mm]	[mm]	[m]	[pc.]
110	110	92	6,0	48
160	160	137	6,0	20

Note

- ■ ■ Outside color. Black pipe is produced on the customer's special order.
- Inside color.

Gasket



Diameter	ID
[mm]	[mm]
50	50
75	75
110	110
160	160

Coupling



Diameter	ID	L
[mm]	[mm]	[mm]
50	50	80
75	75	110
110	110	110
160	160	180



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