

**PE cable duct system in twin wall design
for subsoil installation in infrastructure and road construction**



**HEKAPLAST
cable duct system:**

PE cable duct system in twin wall design meeting the standard requirements in the fields of infrastructure and road construction. HEKAPLAST is produced in sticks and coils in accordance with DIN 16961 (HEKAPLAST-S and HEKAPLAST-R).

Application:

- Municipal infrastructure
- Communication lines
- Traffic route construction
- Cable ducts for power supply, communication lines as well as control and signal lines

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Corrugated and Twin
Wall Pipes of Plastics



HEKAPLAST – the cable duct system made of PE

Applications



Municipal infrastructure

Sufficient and far-sighted provision of control and supply lines for lighting systems and traffic management systems is a pre-requisite in municipal infrastructure. This is particularly true for vacant ductwork that can be used for any later expansions required.



Road construction

Whether road expansion or new construction, along traffic routes of all classes cable ducts are required for the provision and control of traffic management systems, emergency telephones and additional power supply.



Industrial/residential areas

Networking of different building units is of major importance in the course of digitalisation. It ensures that an adequate number of data connections is reliably attainable, both in new plannings as in expansions,

Cable ducts HEKAPLAST mean reliable protection for the installed wiring and cables. Far-sighted planning with vacant ductwork helps to avoid later costs and structural expenditures.

System description

HEKAPLAST cable ducts are made from PE in twin wall design, i. e. with profiled outer wall and smooth inner surface, in accordance with DIN 16961. The twin wall design provides high ring stiffness combined with low weight so that efficient and speedy installation is possible without special construction equipment. The pipe is available in sticks (HEKAPLAST-S) or coils (HEKAPLAST-R).

HEKAPLAST cable ducts can be installed in single layers or, with spacers, as complete pipe package. This ensures a uniform distance between the pipes for the bedding material, which is a pre-requisite for satisfactory stability when used in several layers.

HEKAPLAST-S cable ducts are produced in lengths of 6 m, including coupling. They are particularly suited for installation in single layers or pipe packages.

HEKAPLAST-R cable ducts are available as flexible, coiled product in lengths of 50 m, including coupling and pull-in aid. Flexible cable ducts should not be installed in pipe packages.



Multi-strand installation of HEKAPLAST-S in packages with spacers

Easy handling, durable protection, economical

System tightness to DIN EN 60529

IP rating 54
(protected against dust and splash water):

The standard pipe joint is a „sand-tight joint“, without seal. The coupling is held in place at the pipe end by means of locking cams.

IP rating 67
(dust-proof and protected against temporary submersion):

The use of seals provides adequate protection for installation in “humid soil”. Installation in areas with permanent pressure on the pipe system by ground or strata water is not admissible.

Properties of HEKAPLAST

- PE twin wall pipe, inside smooth, outside corrugated
- Halogen-free
- Excellent rupture/impact resistance
- Ring stiffness:
DN 40 – DN 110: $S \geq 8.0 \text{ kN/m}^2$
DN 125 – DN 200: $S \geq 5.0 \text{ kN/m}^2$
- Suitable for SLW 60 classified roads
- With seal, system-tight for installation in “humid soil” as per the test requirements of DIN EN 1610

Ring stiffness

The stability of HEKAPLAST cable ducts is given as ring stiffness value in accordance with DIN EN ISO 9969. This allows convenient comparison with conventional pipe systems in classical civil engineering, like sewer pipes.

In installation depths as of 0.8 m, the pipes withstand the loads occurring in SLW 60 classified roads.

In case of increased requirements for stability and system tightness the HEKAPLUS cable duct is to be used.



Professional connection to distribution manhole

Technical Data

Nominal size (DN)	Outside diameter (cm)	Inside diameter (cm)	Minimum bending radius HEKAPLAST-R (cm)
40	40 ^{+0.8}	33 ^{±0.5}	20.0
50	50 ^{+1.0}	40 ^{±0.6}	22.0
63	63 ^{+1.2}	52 ^{±0.7}	24.0
75	75 ^{+1.4}	65 ^{±0.8}	27.0
90	90 ^{+1.7}	78 ^{±0.9}	30.0
110	110 ^{+2.0}	95 ^{±1.1}	33.0
120*	117 ^{+2.2}	101 ^{±1.2}	35.0
125	125 ^{+2.3}	107 ^{±1.3}	36.0
160	160 ^{+2.9}	139 ^{±1.6}	42.5
175*	175 ^{+3.0}	155 ^{±1.2}	45.0
200	200 ^{+3.6}	173 ^{±2.0}	50.0

* Nominal size not part of DIN EN 61386-24



tested quality

Packing details/System accessory

HEKAPLAST-S (sticks)

Nominal size	DN	75*	90*	110	120**	125	160	175**	200
Pipe without coupling		○	○	○	○	○	○	○	○
Pipe with pre-assembled coupling		-	-	○	-	-	○	-	-
Stillage contents									
	sticks	102	120	130	117	102	65	54	35
	(m)	612	720	780	702	612	390	324	210
Stillage dimensions									
	length (m)	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10
	width (m)	1.20	1.17	1.21	1.17	1.17	1.20	1.20	1.16
	height (m)	0.55	0.88	1.35	1.40	1.40	1.47	1.47	1.31

* No stock item

Colour: black.

** Nominal size not part of DIN EN 61386-24

Other pipe lengths and colours on request

HEKAPLAST-R (coils)

Nominal size	DN	40	50	63	75	90	110	125	160	200
Coil length	(m)	50	50	50	50	50	50	50	50	50
Coil diameter	(m)	0.70	0.85	1.00	1.15	1.15	1.25	1.40	1.80	2.20
Coil width	(m)	0.29	0.30	0.36	0.35	0.55	0.55	0.65	0.72	0.80

Colour: black.

Other pipe lengths and colours on request.

Accessory

Nominal size	DN	40	50	63	75	90	110	120**	125	160	175**	200
Coupling												
with locking cams		○	○	○	○	○	○	-	○	○	-	○
without locking cams		-	-	-	○	○	○	○	○	○	○	○
Profiled seal		○	○	○	○	○	○	○	○	○	○	○
Bend 45°		-	-	-	○	○	○	○	○	○	○	○
Bend 90°		-	-	-	○	○	○	○	○	○	○	○
Bend, flexible		-	-	-	-	-	○	-	-	○	-	-
End cap		○	○	○	○	○	○	○	○	○	○	○
Manhole connection/ adaptor to sewer pipe to DIN/EN 1401 (KG pipe)		-	-	-	-	-	○	-	-	○	-	-
Spacer		two-/four-/six-/eight-strand, in one- and double-sided design										

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