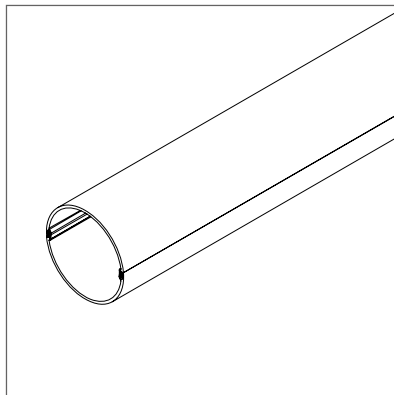


Safe repair and sealing of occupied cable ducts. **(Split-)duct system.**

- 7.1 Split ducts.
- 7.2 Repair set for multiducts.
- 7.3 Split duct accessories.
- 7.4 Accessories for Telecommunications duct systems.

7.1 Split ducts.



Split ducts KKHR



Split ducts KKHR for pressure-tight sealing of damage in cable ducts.

PRESSURE-TIGHT AND DIVISIBLE SOLUTIONS FOR REPAIR WORKS.

Divisible split duct components seal blowing-in points or repair occupied duct systems quickly, simply and efficiently. Internal speedpipe or cables and the ongoing data transmission remain unaffected by the operations on the protective duct.

Features and benefits

- suitable for the gas- and water-tight sealing of blow-in points
- two half shells manufactured out of high-quality PVC-U
- easy installation
- assembly device required for correct sealing

Type	Ø (D)	Length (L)	Applications	Colour	Item no.
KKHR_32	32	2000	gas and waterproof up to 0.5 bar permanently (10 bar / 30 min.)	Black (BK)	12195
KKHR_40	40	2000	gas and waterproof up to 0.5 bar permanently (10 bar / 30 min.)	Black (BK)	9956
KKHR_50	50	2000	gas and waterproof up to 0.5 bar permanently (10 bar / 30 min.)	Black (BK)	9957
KKHR_110	110	2000	gas and waterproof up to 0.5 bar	Black (BK)	14149
	110	6000	gas and waterproof up to 0.5 bar	Black (BK)	4709
KKHR_125	125	3000	gas and waterproof up to 0.5 bar	Black (BK)	5298
	125	6000	gas and waterproof up to 0.5 bar	Black (BK)	5299

All dimensions in mm. Subject to technical changes.

7.2 Repair set for multiducts.



Multiple pipe connector MR-VM to repair occupied multiple pipes.

FOR THE REPAIR OF OCCUPIED MULTIPLE PIPES.

The repair set for multiducts MR-RS has been developed by gabocom for the repair of occupied multiducts and for the connection in manholes. The gas- and water-tight system completes the split duct system KKHR 110. It is compatible with multiducts in the dimensions 2×32 and 2×40 and is easy to assemble.

The set contains:

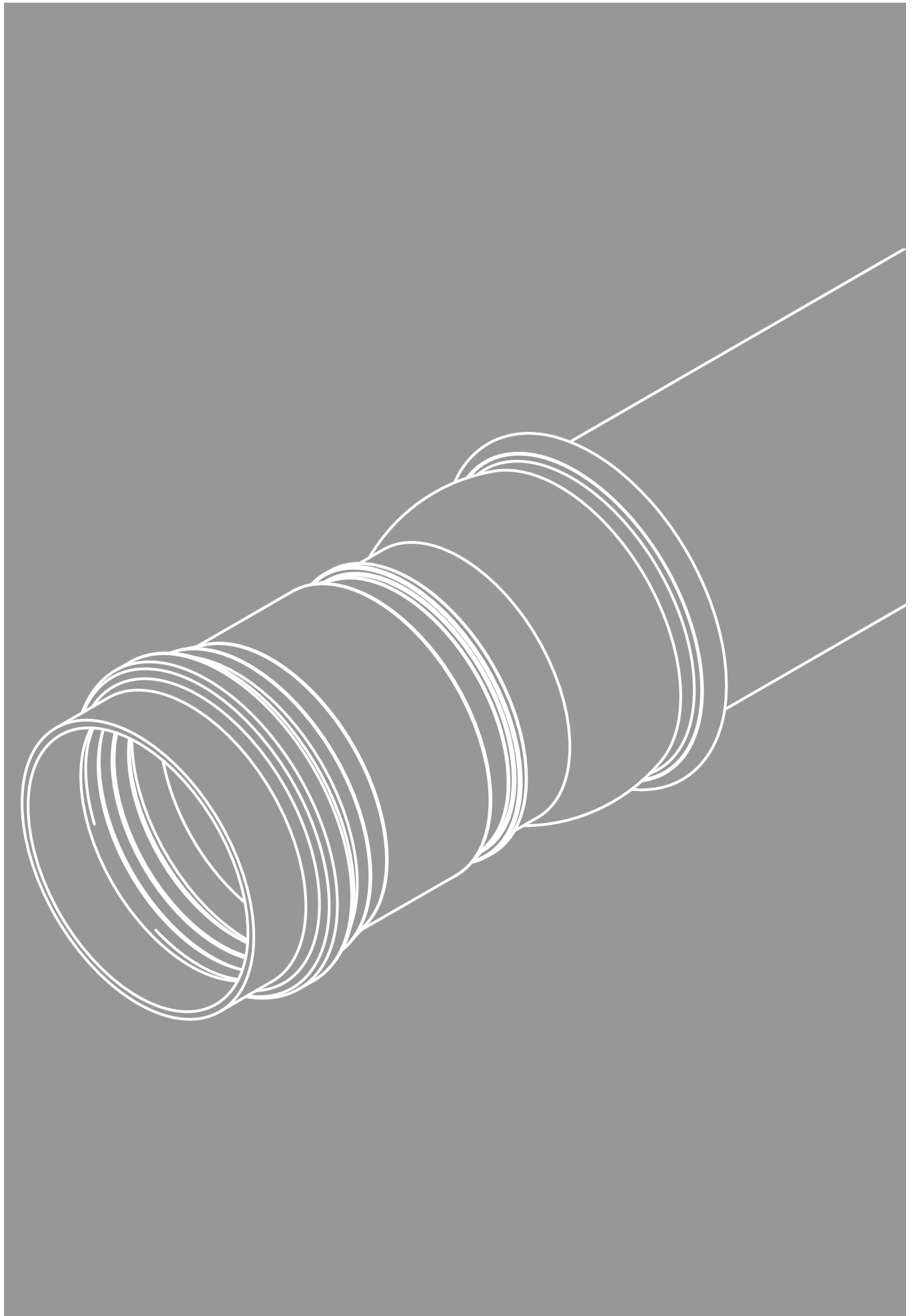
2x split ducts MR-HR 32

2x split ducts MR-HR 40

2x multiple pipe connectors MR-VM

Type	Ø (D)	Ø (D2)	Length (L)	Colour	Item no.
MR-RS	40	32	4000	Black (BK)	6348

All dimensions in mm. Subject to technical changes.



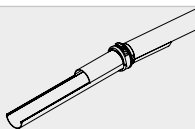
7.3 Split duct accessories.

Quick repair without any net-interruption.

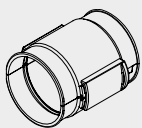
Repair and assembly works can be carried out both quick and cost-saving.
Meanwhile occupied ducts can be used further on without any signal interruptions.



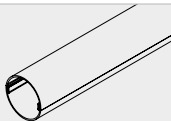
7.3.1 Split duct bends.



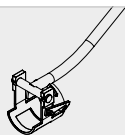
7.3.2 Divisible Cable duct joint bends.



7.3.3 Split duct connectors.

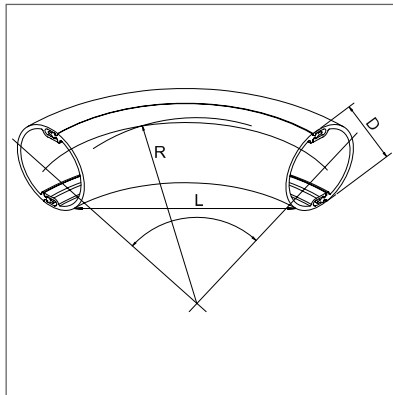


7.3.4 Protective half-shells.



7.3.5 Assembly device.

7.3.1 Split duct bends.



Split duct bends KKHRB



Split duct bends KKHRB

SPLIT DUCT BENDS FOR CABLE DUCTS.

The divisible split duct bends for cable ducts KKHRB are used for the repair of ducts that are layed in curves because of changes in the route or because of height differences. They consist of PVC-U and are gas- and water tight up to 0.5 bar.

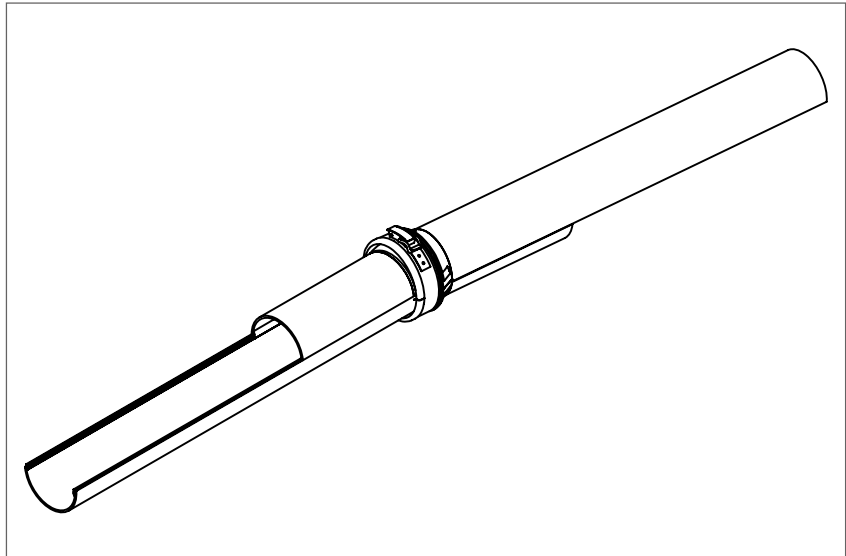
Features and benefits

- tensile and gas- and water tight up to 0.5 bar
- made from PVC-U
- assembly device KKHRG required for correct sealing

Type	Ø (D)	Radius (R)	Angle	Length (L)	Colour	Item no.
KKHRB_50_Type_I	50	1000	90 °	1379	Black (BK)	4765
KKHRB_50_Type_II	50	3100	45 °	2776	Black (BK)	4763
KKHRB_110	110	1000	45 °	723	Black (BK)	5068
	110	1000	90 °	1336	Black (BK)	5067
KKHRB_110_Type_I	110	2710	45 °	2181	Black (BK)	4757
KKHRB_110_Type_II	110	3340	45 °	2706	Black (BK)	4754
KKHRB_110_Type_III	110	4040	45 °	3252	Black (BK)	4750
KKHRB_110_Type_IV	110	4810	45 °	3893	Black (BK)	4741
KKHRB_110_Type_V	110	6070	45 °	5148	Black (BK)	4739
KKHRB_125_Type_I	125	2710	45 °	2181	Black (BK)	1196

All dimensions in mm. Subject to technical changes.

7.3.2 Divisible cable duct joint bends.



Cable duct joint bends KKGB-t

FLEXIBLE AND IMPERMEABLE TO FINE SAND AND SEEPAGE WATER.

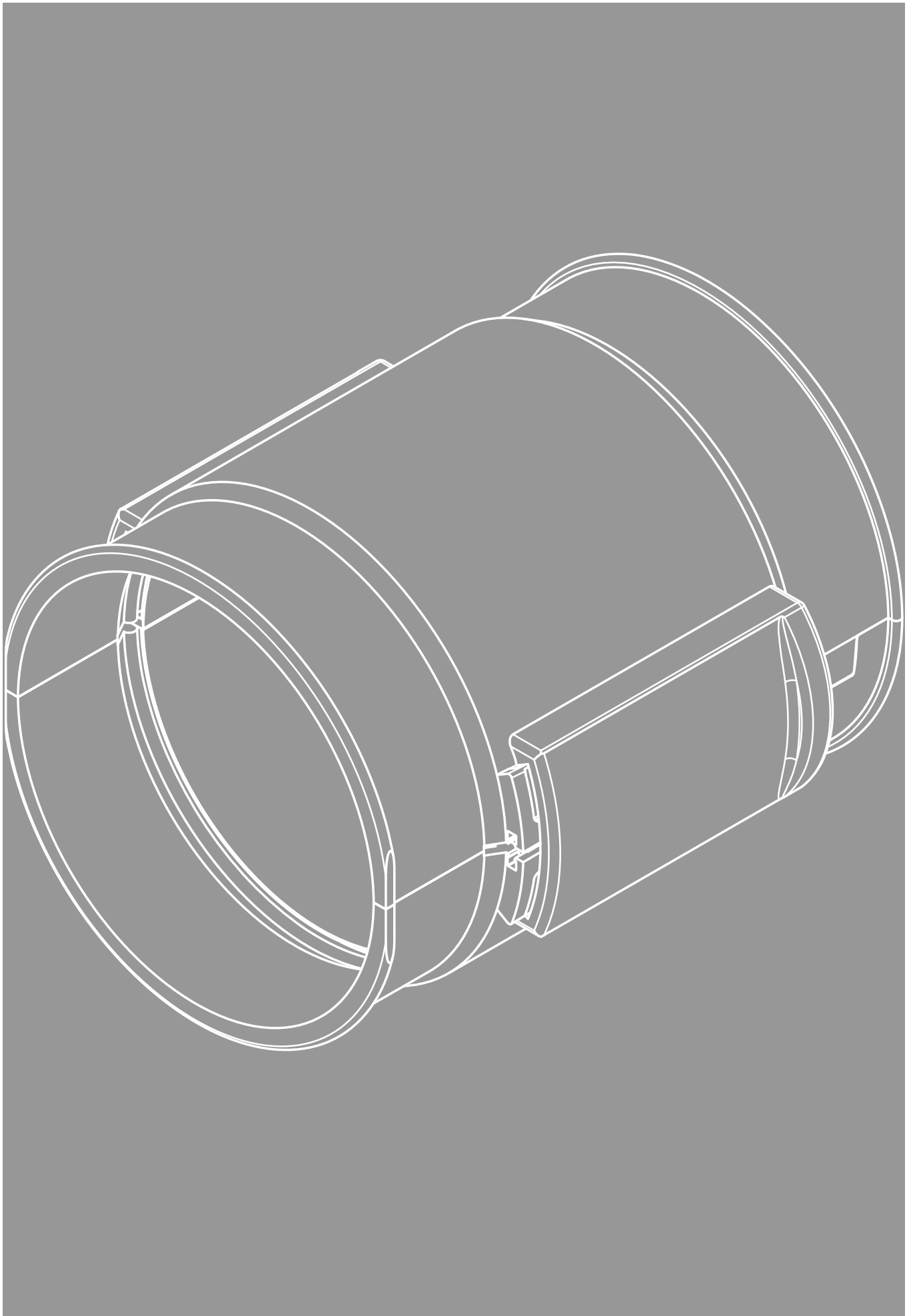
The divisible cable duct joint bend KKGB-t is used in a variety of possible applications: for redirecting the duct route in case of obstacles or external plants like gas pipes or district heating pipelines; in case of height or lateral differences of duct routes; in case of changes in the duct route level due to slopes or subsidence when crossing the road; for skipping obstacles within a bend area; for branching off and refixing ducts into the duct route; in case of local tightness at distribution boxes, cable manholes or distribution stations; for connection ranges that do not align; generally in rough terrain. The flexible duct bends with socket and insertion end include the smallest possible bending radius limit.

Features and benefits

- use smallest possible bending radius limit
- impermeable to fine sand and seepage water
- assembly device KKHRG required for correct sealing

Type	Ø (D)	Wall (WT)	Angle	Colour	Item no.
KKGB-t_110/8°	110	3.20	8 °	Black (BK)	3968

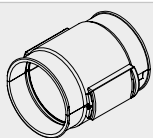
All dimensions in mm. Subject to technical changes.



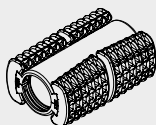
7.3.3 Split duct connectors.

Quick repair without any net-interruption.

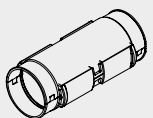
The split duct connectors are used for the gas- and water-tight connection of the split duct with the duct.



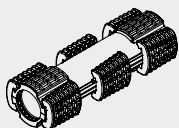
7.3.3.1 Split duct connectors.



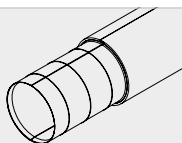
7.3.3.2 Divisible connectors.



7.3.3.3 Repair sleeves.

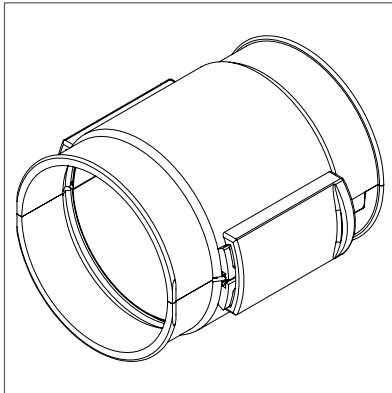


7.3.3.4 Repair sleeves.



7.3.3.5 Transition fittings.

7.3.3.1 Split duct connectors.



Connectors KKHRM



Connectors KKHRM connect split ducts gas- and water-tight.

CONNECT THE HALF-PIPE TO THE PIPE IN A GAS- AND WATER-TIGHT MANNER.

The split duct connectors KKHRM are used for the gas- and water-tight connection of the split duct with the duct.

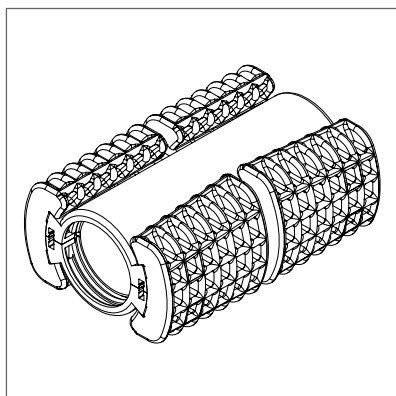
Features and benefits

- divisible
- gas and watertight up to 0.5 bar
- made from PVC-U

Type	Ø (D)	Length (L)	Colour	Item no.
KKHRM_110	110	180	Black (BK)	5891
KKHRM_125	125	180	Black (BK)	5695

All dimensions in mm. Subject to technical changes.

7.3.3.2 Divisible connectors.



Divisible connectors EBM



Divisible connectors EBM for the gas- and water-tight connection of split duct and duct.

CONNECT THE SPLIT-DUCT TO THE DUCT IN A GAS- AND WATER-TIGHT MANNER.

The divisible connector EBM is used for the gas- and water-tight connection of the split duct with the duct. The EBM is tensile, divisible and consist of PVC-U.

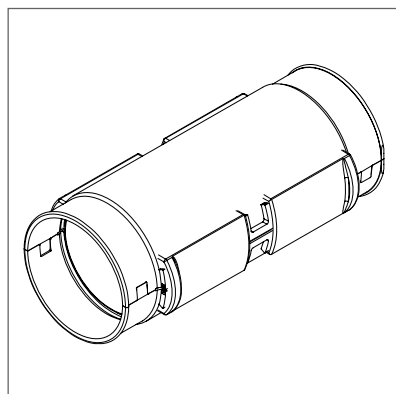
Features and benefits

- permanently gas and watertight up to 0.5 bar (10 bars/30 min)
- tensile
- made from PVC-U

Type	Ø (D)	Colour	Item no.
EBM_32	32	Black (BK)	10777
EBM_40	40	Black (BK)	10778
EBM_50	50	Black (BK)	10779

All dimensions in mm. Subject to technical changes.

7.3.3.3 Repair sleeves.



Repair sleeves RM



Split repair sleeve RM repairs damage to unoccupied pipes or pipes covered with cables.

REPAIR OF EMPTY DUCTS OR DUCTS OCCUPIED WITH CABLES.

The RM split repair sleeves are suitable for repairing minor damage up to approx. 150 mm to empty pipes or pipes covered with cables.

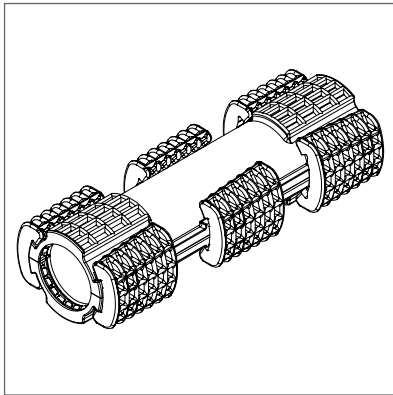
Features and benefits

- gas- and water-tight up to 0.5 bar
- made from PVC-U

Type	Ø (D)	Length (L)	Colour	Item no.
RM_110	110	300	Black (BK)	11188

All dimensions in mm. Subject to technical changes.

7.3.3.4 Repair sleeves.



Repair sleeves EBM-R



Repair sleeve EBM-R for repairing occupied and unoccupied cable conduits.

REPAIR OF EMPTY DUCTS OR DUCTS OCCUPIED WITH CABLES.

The divisible repair connectors EBM-R are suitable for the repair of small damages up to approx. 170 mm on empty ducts or on ducts occupied with cables. They are tensile and gas- and water-tight up to 0.5 bar.

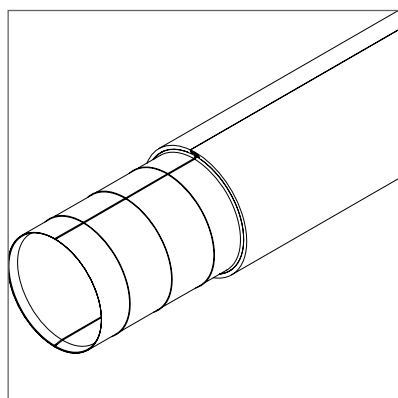
Features and benefits

- tensile
- permanently gas and watertight up to 0.5 bar
- made from PVC-U

Type	Ø (D)	Length (L)	Colour	Item no.
EBM-R_32	32	260	Black (BK)	42233
EBM-R_40	40	260	Black (BK)	10316
EBM-R_50	50	260	Black (BK)	997

All dimensions in mm. Subject to technical changes.

7.3.3.5 Transition fittings.



Split transition fittings UEFT-t



Split transition fittings UEFT-t 110 are suitable for cable duct shaped blocks that are already occupied.

IMPERMEABLE TO FINE SAND AND SEEPAGE WATER.

The split transition fitting ÜFT-t made of PVC-U was developed for cable duct blocks that are already covered with cables.

Features and benefits

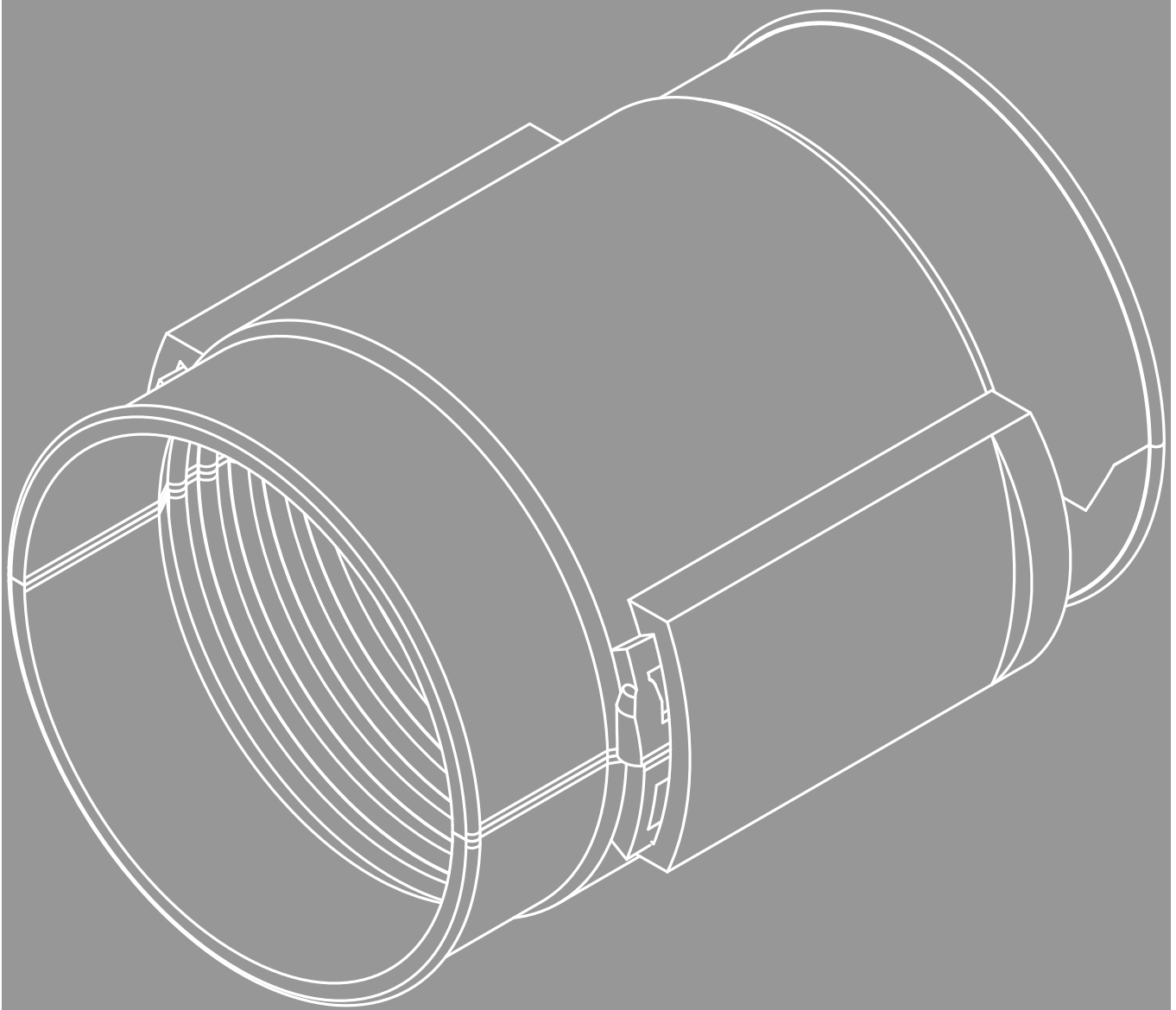
- impermeable to fine sand and seepage water
- made from PVC-U
- assembly device KKHRG required for correct sealing

Type	Ø (D)	Length (L)	Colour	Item no.
UEFT-t_110	110	1650	Black (BK)	8255

All dimensions in mm. Subject to technical changes.



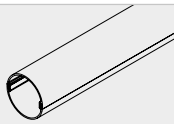
(split-)duct system



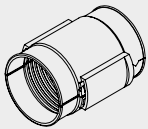
7.3.4 Protective half-shells.

Above ground installation.

The protective half-shells protect the communications and power cables at the aboveground installation. Furthermore they fulfill all requirements for repair half shells of fine sand-tight protective pipes for cables.

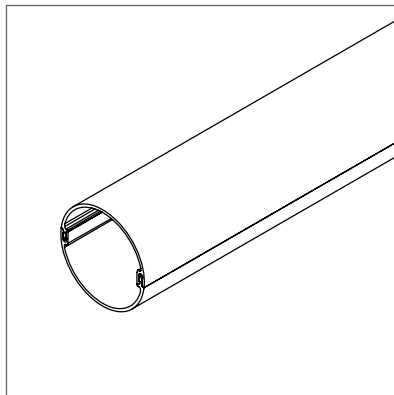


7.3.4.1 Protective half-shells.



7.3.4.2 Half-shell sleeves.

7.3.4.1 Protective half-shells.



Protective half-shells HS



Protective half-shells HS protect cables during above-ground installation.

PROTECT THE COMMUNICATIONS AND POWER CABLES AT THE ABOVE GROUND INSTALLATION.

The protective half-shells HS protect the communications and power cables at the above ground installation. Furthermore they fulfill all requirements of fine sand-tight protective pipes for cables for repair half shells. They consist of two half shells with continuous snap lock and are made from UV-resistant PVC-U. Due to their white color, they expand only to a minimum under solar exposure. The simple handling allows quick assembly and reusability.

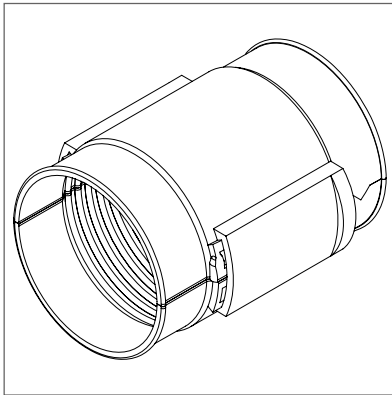
Features and benefits

- made of UV-resistant PVC-U
- easy assembly and reusability
- assembly device KKHRG required for correct sealing

Type	Ø (D)	Wall (WT)	Length (L)	Colour	Item no.
HS_110	110	3.20	3000	White (WH)	4222
	110	3.20	6000	White (WH)	7757

All dimensions in mm. Subject to technical changes.

7.3.4.2 Half-shell sleeves.



Half-shell sleeve for protective pipes
HSM



Half-shell sleeves for protective pipes HSM make connections fine sand-tight.

CONNECTING PROTECTIVE HALF-SHELLS.

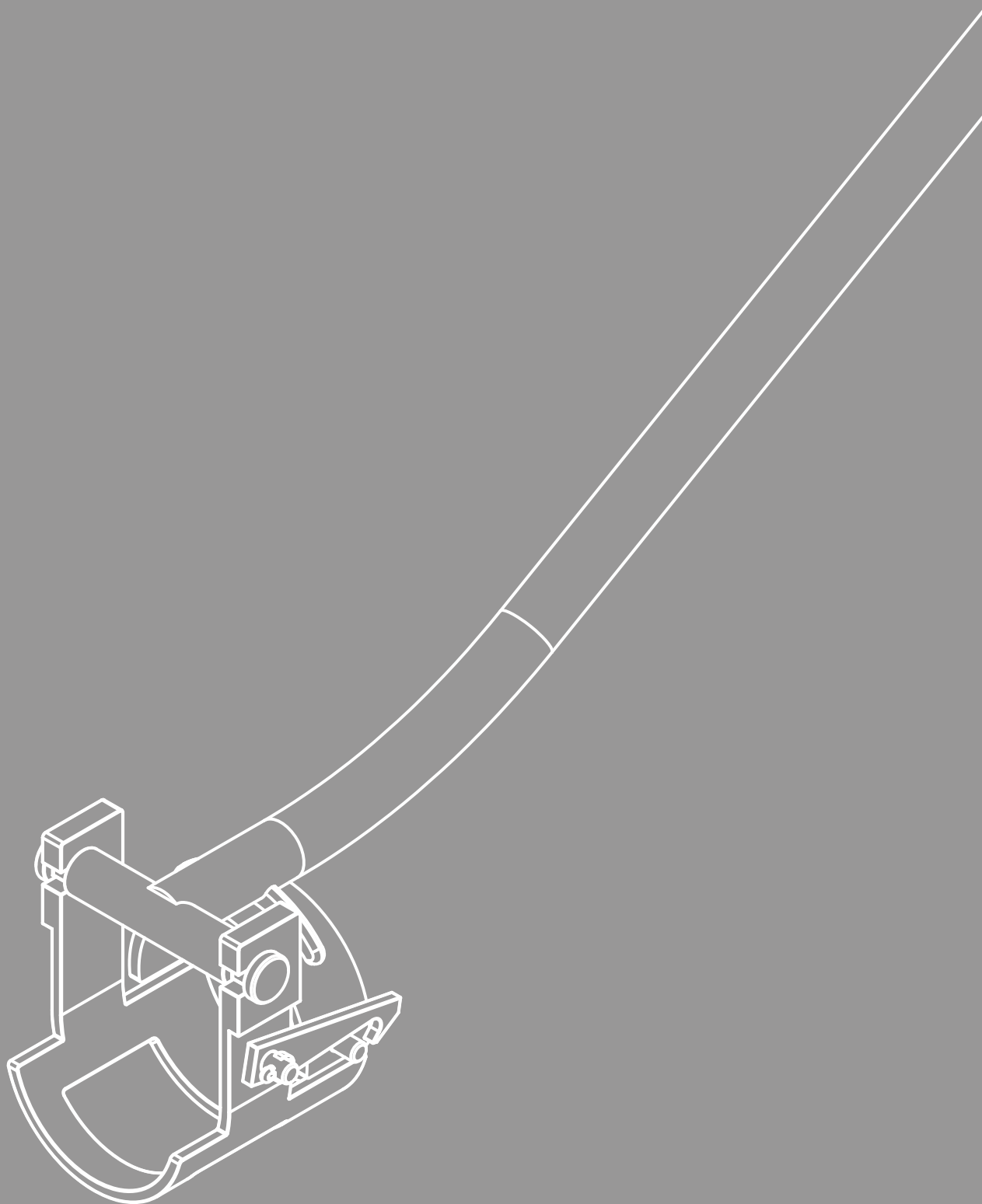
Half-shell sleeves for protective pipes are used with two connecting clamps and are made from PVC-U. The UV-resistant, white moulded part is fine sand-tight and reusable.

Features and benefits

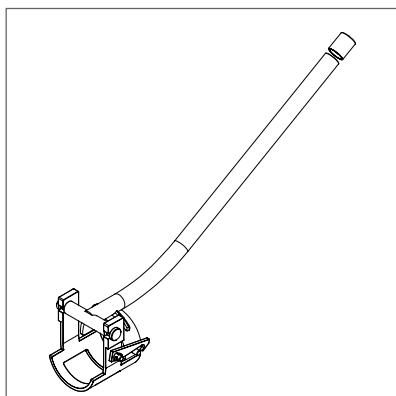
- made from UV-resistant PVC-U
- reusable and fine sand-tight

Type	Ø (D)	Length (L)	Colour	Item no.
HSM_110	110	180	White (WH)	7749

All dimensions in mm. Subject to technical changes.



7.3.5 Assembly device.



Assembly device KKHRG



Assembly device KKHRG are needed for professional assembly.

ASSEMBLY OF SPLIT DUCT SYSTEMS.

The divisible split duct assembly devices KKHRG are required for the professional assembly of gabocom split duct systems.

Type	Ø (D)	Colour	Item no.
KKHRG_32	32	Silver (SR)	5022
KKHRG_40	40	Silver (SR)	4179
KKHRG_50	50	Silver (SR)	7624
KKHRG_110	110	Silver (SR)	1930
KKHRG_125	125	Silver (SR)	9747

All dimensions in mm. Subject to technical changes.