

Always. Reliable. Tight.



Advantages:

- gastight and watertight up to 1 bar
- quick to assemble in just a few minutes
- no need to restore the basement seal as per the requirements in DIN 18195 Part 4

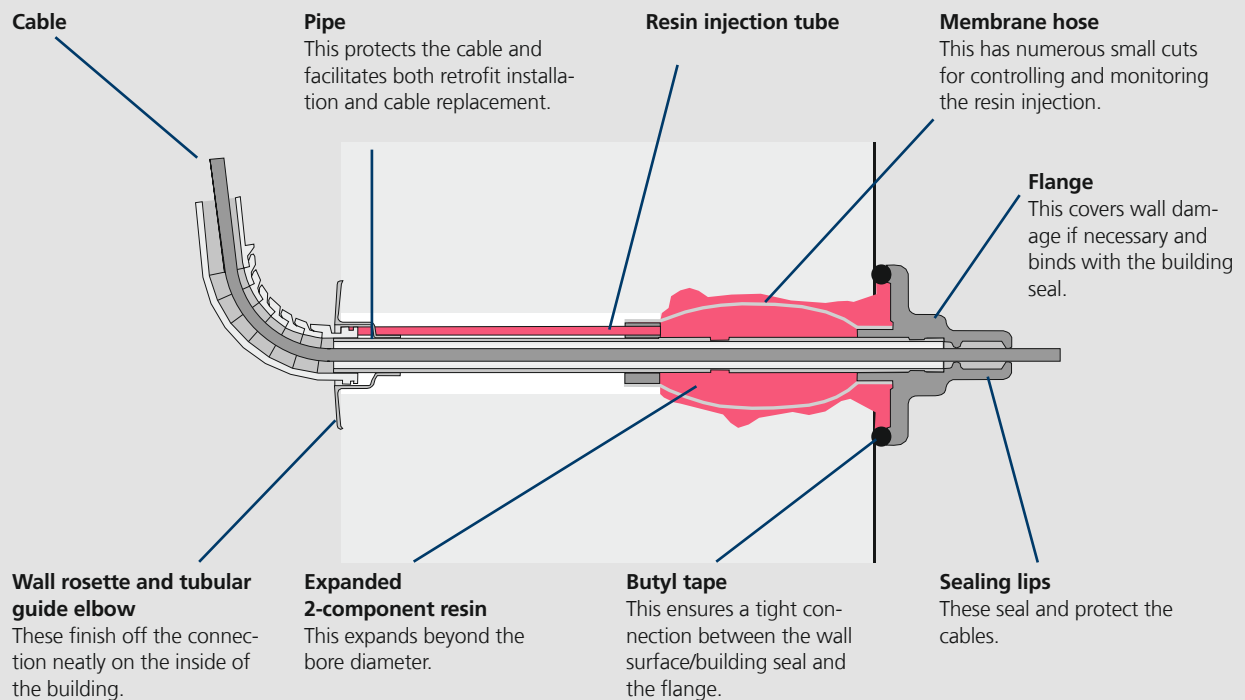
Single building entries

Power and communication

MIS – Membrane injection system

Single building entries for power and communication.

The structure



Features and technical data:

- for wall thicknesses between 200 and 1,200 mm
- for sloping entry through the slab or for horizontal entry through the basement wall
- gentle cable sealing

The MIS (membrane injection system) is a universal building entry for bore holes in the most common types of walls. It is used to provide a gastight and watertight seal for building connections in slabs or in basement walls. The MIS is a building entry with an integrated injection membrane. This provides targeted and controlled resin injection and significantly shortens building connection times. The MIS is a perfect and reliable seal for installing electrical and telecommunications cables in a gastight and watertight manner in bore holes with Ø 40 – 50, 62 – 65 or 92 – 102 mm. The best in its class: whether it's brickwork or concrete, the MIS building entry can be used universally in new builds or renovations.

Single building entry

Communication

For buildings with a basement



Article code:
MIS 40/2x5-7

MIS 40

The MIS 40 acts as a reliable seal for fibre-optic and telecommunications cables in bore holes with Ø 40 – 50 mm. The MIS 40 is particularly useful for dealing with delicate optical fibres due to its cable-friendly sealing lips.

MIS 40 variants and packaging units

Available for 2 cables with Ø 5 – 7 mm or for 1 cable with Ø 9 – 12 mm. For wall thicknesses of 200 – 900 mm and 900 – 1,200 mm. A packaging unit consists of 10 MIS 40 building entries, 10 wall rosettes, 10 tubular guide elbows, 10 cartridges 2-component resins iM 3000 inclusive mixing nozzle and 1 quick tensioning device.

For buildings without a basement



Article code:
MIS 40S/9-12

MIS 40S

The MIS 40S is suitable for sloping entry through slabs in buildings without a basement. It acts as a reliable seal for fibre-optic and telecommunications cables in bore holes with Ø 40 – 50 mm.

MIS 40S variants and packaging units

Available for 2 cables with Ø 5 – 7 mm or for 1 cable with Ø 9 – 12 mm. Overall length 1,300 mm. A packaging unit consists of 10 MIS 40S building entries, 10 wall rosettes, 10 tubular guide elbows, 10 cartridges 2-component resins iM 3000 inclusive mixing nozzle and 1 quick tensioning device.



Wall rosette and
tubular guide elbow



2-component resin iM 3000
inclusive mixing nozzle



The quick tensioning device is a reusable tool and
can be ordered separately if required: MIS 40-SVS

Core drill hole/ wall duct ID (mm)	Number of cables/ medium	Suitable for medium pipe OD (mm)	Overall length	Packing unit	Article code	Article number
Buildings with a basement 40 – 50	2	5 – 7	1,000 mm	10 pieces	MIS 40/2x5-7; 200-900	2900000797
	2	5 – 7	1,300 mm	10 pieces	MIS 40/2x5-7; 900-1200	2900000870
	1	9 – 12	1,000 mm	10 pieces	MIS 40/9-12; 200-900	2900000798
	1	9 – 12	1,300 mm	10 pieces	MIS 40/9-12; 900-1200	2900000875
Buildings without a basement (Sloping installation) 40 – 50	2	5 – 7	1,300 mm	10 pieces	MIS 40S/2x5-7	2900000910
	1	9 – 12	1,300 mm	10 pieces	MIS 40S/9-12	2900000920

Single building entry

Communication

For buildings with a basement



Article code:
MIS 60D/6-12

Example
Seal insert: 4x5-7

MIS 60D

The MIS 60D is also used to reliably seal your fibre-optic and telecommunications cables. In these applications, cable sealing is achieved using sealing elements that are already assembled when they are delivered. A bore hole with Ø 62 – 65 mm is required.

MIS 60D variants and packaging units

Available for 4 cables with Ø 5 – 7 mm, for 3 cables with 10 mm or for 1 cable with Ø 6 – 12 mm or 12 – 18 mm. For wall thicknesses of 200 – 900 mm and 900 – 1,200 mm. A packaging unit consists of 10 MIS 60D building entries, 10 wall rosettes, 10 cartridges 2-component resins iM 3000 inclusive mixing nozzle and 1 quick tensioning device.

For buildings without a basement



Article code:
MIS 60S/6-12

MIS 60S

The MIS 60S is suitable for sloping entry through slabs in buildings without a basement. It acts as a reliable seal for fibre-optic and telecommunications cables in bore holes with Ø 62 – 65 mm.

MIS 60S variants and packaging units

Available for 4 cables with Ø 5 – 7 mm, for 3 cables with 10 mm or for 1 cable with Ø 6 – 12 mm or 12 – 18 mm. The variants for sloping entry through the slab are always supplied with an overall length of 1,300 mm. A packaging unit consists of 10 MIS 60S building entries, 10 wall rosettes, 10 cartridges 2-component resins iM 3000 inclusive mixing nozzle and 1 quick tensioning device.



Wall rosette



2-component resin iM 3000
inclusive mixing nozzle



Quick tensioning device



Tubular guide elbow inclusive
adaptor (available as an accessory)

The quick tensioning device is a reusable tool and can be ordered separately if required: MIS 60-SVS.

The tubular guide elbow inclusive adaptor is available as an optional accessory and can be used for cables up to 16 mm: MIS 60-RB

Core drill hole/wall duct ID (mm)	Number of cables/medium	Suitable for medium pipe OD (mm)	Overall length	Packing unit	Article code	Article number
Buildings with a basement 62 – 65	4	5 – 7	1.000 mm	10 pieces	MIS 60D/4x5-7; 200-900	2900100070
	4	5 – 7	1.300 mm	10 pieces	MIS 60D/4x5-7; 900-1200	2900100076
	3	10	1.000 mm	10 pieces	MIS 60D/3x10; 200-900	2900100078
	3	10	1.300 mm	10 pieces	MIS 60D/3x10; 900-1200	2900100077
	1	6 – 12	1.000 mm	10 pieces	MIS 60D/6-12; 200-900	2900100069
	1	6 – 12	1.300 mm	10 pieces	MIS 60D/6-12; 900-1200	2900100075
	1	12 – 18	1.000 mm	10 pieces	MIS 60D/12-18; 200-900	2900100068
	1	12 – 18	1.300 mm	10 pieces	MIS 60D/12-18; 900-1200	2900100074
Buildings without a basement (Sloping installation) 62 – 65	4	5 – 7	1.300 mm	10 pieces	MIS 60S/4x5-7	2900100236
	3	10	1.300 mm	10 pieces	MIS 60S/3x10	2900100223
	1	6 – 12	1.300 mm	10 pieces	MIS 60S/6-12	2900100235
	1	12 – 18	1.300 mm	10 pieces	MIS 60S/12-18	2900100234

Single building entry

Power

For buildings with a basement



Article code:
MIS 60D/18-24

MIS 60D

The MIS 60D is not just used for fibre-optic and telecommunications cables; its wide range of applications offers reliable sealing solutions for power cables between 18 and 34 mm using the MIS 60D. A bore hole with Ø 62 – 65 mm is required.

MIS 60D variants and packaging units

Available for 1 cable with Ø 18 – 24 mm, 24 – 30 mm or – without seal insert – for 30 – 34 mm.

For wall thicknesses of 200 – 900 mm and 900 – 1,200 mm.

A packaging unit consists of 10 MIS 60D building entries, 10 wall rosettes, 10 cartridges 2-component resins iM 3000 inclusive mixing nozzle and 1 quick tensioning device.

For buildings without a basement



Article code:
MIS 60S/18-24

MIS 60S

The MIS 60S is suitable for sloping entry through the slab in buildings without basements as a reliable seal for electrical cables in bore holes with Ø 62 – 65 mm.

MIS 60S variants and packaging units

Available for 1 cable with Ø 18 – 24 mm, 24 – 30 mm or – without seal insert – for 30 – 34 mm.

The variants for sloping entry through the slab are always supplied with an overall length of 1,300 mm. A packaging unit consists of 10 MIS 60S building entries, 10 wall rosettes, 10 cartridges 2-component resins iM 3000 inclusive mixing nozzle and 1 quick tensioning device.



Wall rosette



2-component resin iM 3000
inclusive mixing nozzle



Quick tensioning device

The quick tensioning device is a reusable tool and can be ordered separately if required: MIS 60-SVS.

Core drill hole/ wall duct ID (mm)	Number of cables/ medium	Suitable for medium pipe OD (mm)	Overall length	Packing unit	Article code	Article number
Buildings with a basement 62 – 65	1	18 – 24	1,000 mm	10 pieces	MIS 60D/18-24; 200-900	2900100067
	1	18 – 24	1,300 mm	10 pieces	MIS 60D/18-24; 900-1200	2900100073
	1	24 – 30	1,000 mm	10 pieces	MIS 60D/24-30; 200-900	2900100066
	1	24 – 30	1,300 mm	10 pieces	MIS 60D/24-30; 900-1200	2900100072
	1	30 – 34	1,000 mm	10 pieces	MIS 60D/30-34; 200-900	2900100065
	1	30 – 34	1,300 mm	10 pieces	MIS 60D/30-34; 900-1200	2900100071
Buildings without a basement (Sloping installation) 62 – 65	1	18 – 24	1,300 mm	10 pieces	MIS 60S/18-24	2900100233
	1	24 – 30	1,300 mm	10 pieces	MIS 60S/24-30	2900100232
	1	30 – 34	1,300 mm	10 pieces	MIS 60S/30-34	2900100231

Single building entry

Power and communication

For buildings with a basement



Article code:
MIS 90 SPEEDPIPE-U

MIS 90

The MIS 90 is a perfect and reliable seal for all electrical and telecommunications cables in bore holes with Ø 92 – 102 mm. The cables are sealed without additional shrinking using a sealing sleeve for the most common cable dimensions. The real selling point of the MIS 90 is that it allows you to pass the two lines through a single opening and seal them using the MIS 90-EW sleeve cap.

Features and technical data:

- for wall thicknesses of between 200 and 1,200 mm
- sealing using a flexible and adaptable sealing sleeve with segmented ring technology
- stainless steel clamping straps
- simultaneous sealing for power and communication lines
- sealing sleeve delivered blind sealed



MIS 90 variants and packaging units

MIS 90 SPEEDPIPE-U for wall thicknesses of 200 – 900 mm and 900 – 1,200 mm. Always inclusive preassembled sleeve caps MS75-U 1/24-52.

A packaging unit consists of 6 MIS 90 building entries and 6 WAR 90/100-SG 1/24-52+2/7 wall rosettes.

MIS 90 S-U with an overall length of 1,300 mm inclusive wall plugs (instead of WAR).



MIS 90 variants and packaging units

MIS 90 SPEEDPIPE-EW for wall thicknesses of 200 – 900 mm and 900 – 1,200 mm.

MIS 90S-EW with an overall length of 1,300 mm inclusive preassembled sleeve caps MS75-EW 1/24 - 40 - 3/7 - 12.

A packaging unit consists of 6 MIS 90 building entries and 6 WAR 90/100-1/63+2/7 wall rosettes.

MIS 90S-EW with an overall length of 1,300 mm inclusive wall plugs (instead of WAR).



MIS 90 variants and packaging units

MIS 90 SPEEDPIPE-KD for wall thicknesses of 200 – 900 mm and 900 – 1,200 mm.

Inclusive preassembled sleeve caps MS75-KD 1/13-21+3/7-13+1/5-13.

A packaging unit consists of 6 MIS 90 building entries and 6 WAR 90/100-1/63+2/7 wall rosettes.

MIS 90S-KD with an overall length of 1,300 mm inclusive wall plugs (instead of WAR).



Not supplied with the product but necessary tool/item for installation (available to order separately):

Reusable quick tensioning device: MIS 90-SVS.

2-component iM 3000 inclusive mixing nozzle 300 ml: EH 300/1400 (Packing unit = 6 pieces)

Single building entry

Power and communication

For buildings without a basement



Article code:
MIS 90S-U

MIS 90S

The MIS 90S is used in buildings without a basement – it is installed in the slab at a sloping angle and reliably seals your cables at the same time.

Instead of a wall rosette a plug made from sponge rubber is supplied, which is ideal for installations in a sloped bore hole.

Core drill hole/wall duct ID (mm)	Number of cables/ medium	Suitable for medium pipe OD (mm)	Overall length	Packing unit	Article code	Article number
Buildings with a basement 92 – 102	3					
	including 1	24 – 52	1,000 mm	6 pieces	MIS 90 SPEEDPIPE-U; 200-900	2900212000
	including 2	7				
	3					
	including 1	24 – 52	1,300 mm	6 pieces	MIS 90 SPEEDPIPE-U; 900-1200	2900217000
	including 2	7				
	6					
	including 1	24 – 40	1,000 mm	6 pieces	MIS 90 SPEEDPIPE-EW; 200-900	2900211000
	including 3	7 – 12				
	including 2	7				
	6					
	including 1	24 – 40	1,300 mm	6 pieces	MIS 90 SPEEDPIPE-EW; 900-1200	2900216000
	including 3	7 – 12				
	including 2	7				
	7					
	including 1	13 – 21	1,000 mm	6 pieces	MIS 90 SPEEDPIPE-KD; 200-900	2900212500
	including 3	7 – 13				
	including 1	5 – 13				
	including 2	7				
Buildings without a basement (Sloping installation) 92 – 102	7					
	including 1	13 – 21	1,300 mm	6 pieces	MIS 90 SPEEDPIPE-KD; 900-1200	290021800
	including 3	7 – 13				
	including 1	5 – 13				
	including 2	7				
	1	24 – 52	1,300 mm	1 pieces	MIS 90S-U	2900200510
	4					
	including 1	24 – 40	1,300 mm	1 pieces	MIS 90S-EW	2900200520
	including 3	7 – 12				
	5					
	including 1	13 – 21	1,300 mm	1 pieces	MIS 90S-KD	2900200530
	including 3	7 – 13				
	including 1	5 – 13				

MIS – Single building entry

Power and communication

The structure

Membrane hose

This has numerous small cuts for controlling and monitoring the resin injection.

Resin

This expands beyond the bore diameter.

Flange

This covers wall damage if necessary and binds with the building seal.

Resin injection hose

Octagonal inner sealing element inclusive closed sealing element

These finish off the connection neatly on the inside of the building.

Butyl tape

This ensures a tight connection between the wall surface and the flange.

Pipe sleeve

This protects the cables and enables retrofit installation.

Features and technical data:

- gastight and watertight up to 1 bar
- for constructing a cable ducting line
- for electrical cables between 20 and 34 mm
- for communication cables between 5 and 21 mm
- for wall thicknesses of 240 – 600 mm

MIS – Single building entry

Power and communication

For buildings with a basement



Article code:
MIS 100/75 - EH

MIS 100/75

The MIS 100/75 – or MIS 100/75-EH – is the newest single building entry to come from Hauff-Technik. It is particularly suitable for constructing ducting lines between the building's cable connection area and the plot boundary.

It is used directly in a core drill hole with a diameter of 99 – 103 mm and is characterised by the fact that it can be used in every type of wall. Thanks to the standardised, tried-and-tested octagonal inner sealing element, the MIS 100/75 can be used for all pipes and cables, whether they are for gas, water, power or telecommunications.

MIS 100/75 – variants and scope of delivery

MIS 100/75 – consisting of the membrane injection unit as a modular outer seal with an existing ESH Basic building entry.

MIS 100/75-EH – as a complete single building entry consisting of the membrane injection unit, a pipe sleeve and an octagonal inner sealing element.

The corresponding closed sealing element – ED or KD – must always be ordered separately.



Not supplied with the product but necessary tool/item for installation (available to order separately):

Reusable quick tensioning device:

MIS 100/75-SVS.

2-component resin iM 3000 inclusive mixing nozzle 300 ml:

EH 300/1400 (Packing unit = 6 pieces)

Accessories



Closed sealing element
Electrical
ED 1/20-34



Closed sealing element
Communication
KD 1/13-21+3/7-13+1/5-13



Closed sealing element
Electrical/communication
ED/KD 1/26-30 + 3/5-8 + 2/7-13



Duct connection/extension consisting of a sleeve plug M70 and 2 stainless steel clamping straps



Structure of a duct using a Hateflex hose 14070



Structure of a duct using a corrugated pipe DN 75

Single building entry through the wall

Power and communication



ESH Basic with Modul 1 inclusive closed sealing element
ED 1/20-34

ESH Basic with Modul 1 inclusive closed sealing element
M-KD 1/13-21+3/7-13+1/5-13 (not shown)



Features and technical data:

- gastight and watertight up to 1.5 bar
- for electrical cables between 20 and 34 mm
- for communications cables between 5 and 21 mm
- optional external flange
- infinitely adjustable for wall thicknesses of 130 – 500 mm

Our electrical and communications building entries are suitable for buildings with or without a basement. The ESH Basic building entry with Modul 1 is a dry installation system that can be installed directly in core drill holes or wall sleeves to save wasting time on expansive grouting mortar. Thanks to the ESH Basic building entry with Modul 1, a continuous duct line can be installed quickly and safely from the inside of the building to the plot boundary.

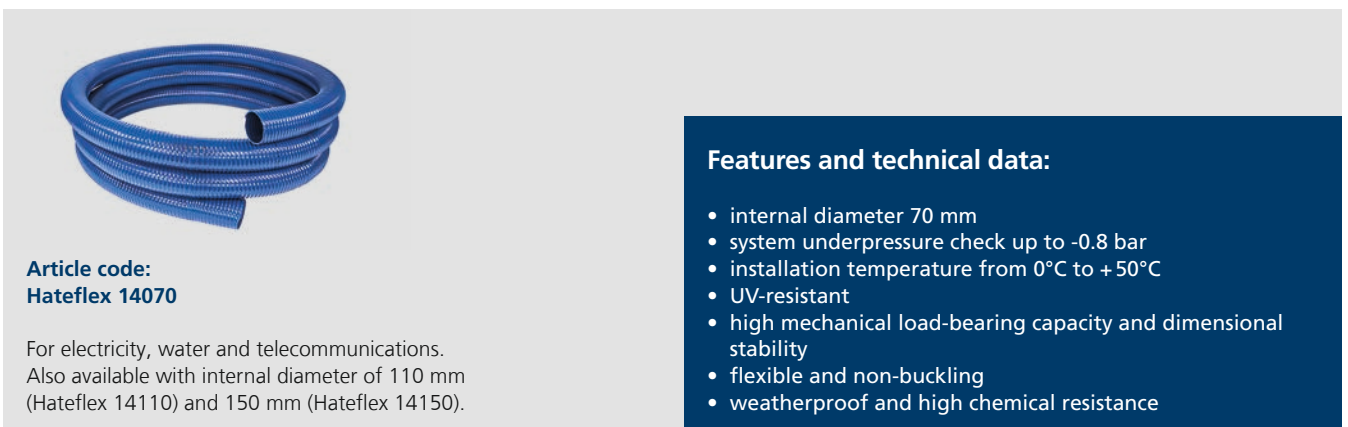
Accessories



Closed sealing element
Electrical
ED 1/20-34

Closed sealing element
Communication
KD 1/13-21+3/7-13+1/5-13

Closed sealing element
Electrical/communication
ED/KD 1/26-30 + 3/5-8 + 2/7-13



Article code:
Hateflex 14070

For electricity, water and telecommunications.
Also available with internal diameter of 110 mm (Hateflex 14110) and 150 mm (Hateflex 14150).

Features and technical data:

- internal diameter 70 mm
- system underpressure check up to -0.8 bar
- installation temperature from 0°C to +50°C
- UV-resistant
- high mechanical load-bearing capacity and dimensional stability
- flexible and non-buckling
- weatherproof and high chemical resistance

Hateflex hose

The Hateflex plastic spiral hose is a cable duct with a smooth inner surface that is able to withstand high mechanical loads. It provides versatile, flexible and pressure-tight cable ducting solutions. We also supply coils, which means you're always in a position to be flexible – no matter what length you need.

Single building entry through the slab

Power and communication

For buildings without a basement



Article code:
ESH Basic-FUBO

Pipe component to be set in concrete inclusive installation fixture and pipe sleeve system/pressure hose (anti-extraction sleeve)

ESH Basic-FUBO

The ESH Basic-FUBO floor entry system consists of a wall sleeve with a preassembled installation fixture and a flexible, pressure-resistant duct system. The length can be individually adjusted on site at any time to the size you actually need. The rubber moulded part connects the pipe sleeve with the adaption pipe in a gastight and watertight manner and seals it to the slab using a circular sealing flange. The mechanically stable KES-KMR82-V/X pressure hose ensures a minimum bend radius and is permanently connected to the base body using anti-extraction sleeve technology.

Features and technical data:

- gastight and watertight up to 1.5 bar
- for electrical cables between 20 and 34 mm
- for communication cables between 5 and 21 mm
- adjustable installation fixture
- possible to cut later at the finished floor level
- flexible duct with anti-extraction sleeve technology



Article code:
ESH Basic-MB

Seal insert inclusive closed sealing element
ED (electrical) or KD (communication)



KES-KMR 82-V/X cable entry system
available in lengths of 2, 3, 4, 5 or 6 m
(for properties see Hateflex hose 14070)



Pipe connection/extension M70
consisting of
1 sleeve M70 and
2 stainless steel tightening straps



Extension:
Hateflex 14070 on Hateflex 14070



Connection:
Hateflex 14070 on DN 75 cable duct



Sleeve caps
MS75-U 1/24-52



Sleeve caps
MS75-KD 1/13-21+3/7-13+1/5-13



Sleeve caps
MS75-EW 1/24-40-3/7-12

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