



FILO form

A CRH COMPANY

***All the solutions you need to
protect FttX networks***

www.filoform.com



A CRH COMPANY

Your reliable partner for almost 60 years when it comes to connecting and protecting networks.



Filoform B.V. , The Netherlands



Filoform GmbH, Germany



Filoform, United Kingdom

Reliable, safe and responsible

The quality of our products is monitored from the raw material through development to the finished product. Our „ISO 9001“ certification assures you of the highest standards.

The certification according to „ISO 14001“ obliges us to continuously exclude possible environmental pollution caused by our products and to improve our processes. We are happy to comply with this out of conviction.



The satisfaction of our customers and the protection and health of our employees have the highest priority for us. We regard applicable regulations and laws for our production and work processes as a minimum requirement and pursue sustainable growth with social and ecological responsibility with our economic success. We expect the same from our suppliers.

Fairness, security and responsibility are not just three words for us, but are actively lived at Filoform.

The right solution for every network

Modern communication and supply networks have become an integral part of our lives today. Due to technical developments and innovative processes will become even more important in the future. Trouble-free functioning and unrestricted usability of these networks is therefore becoming increasingly important.

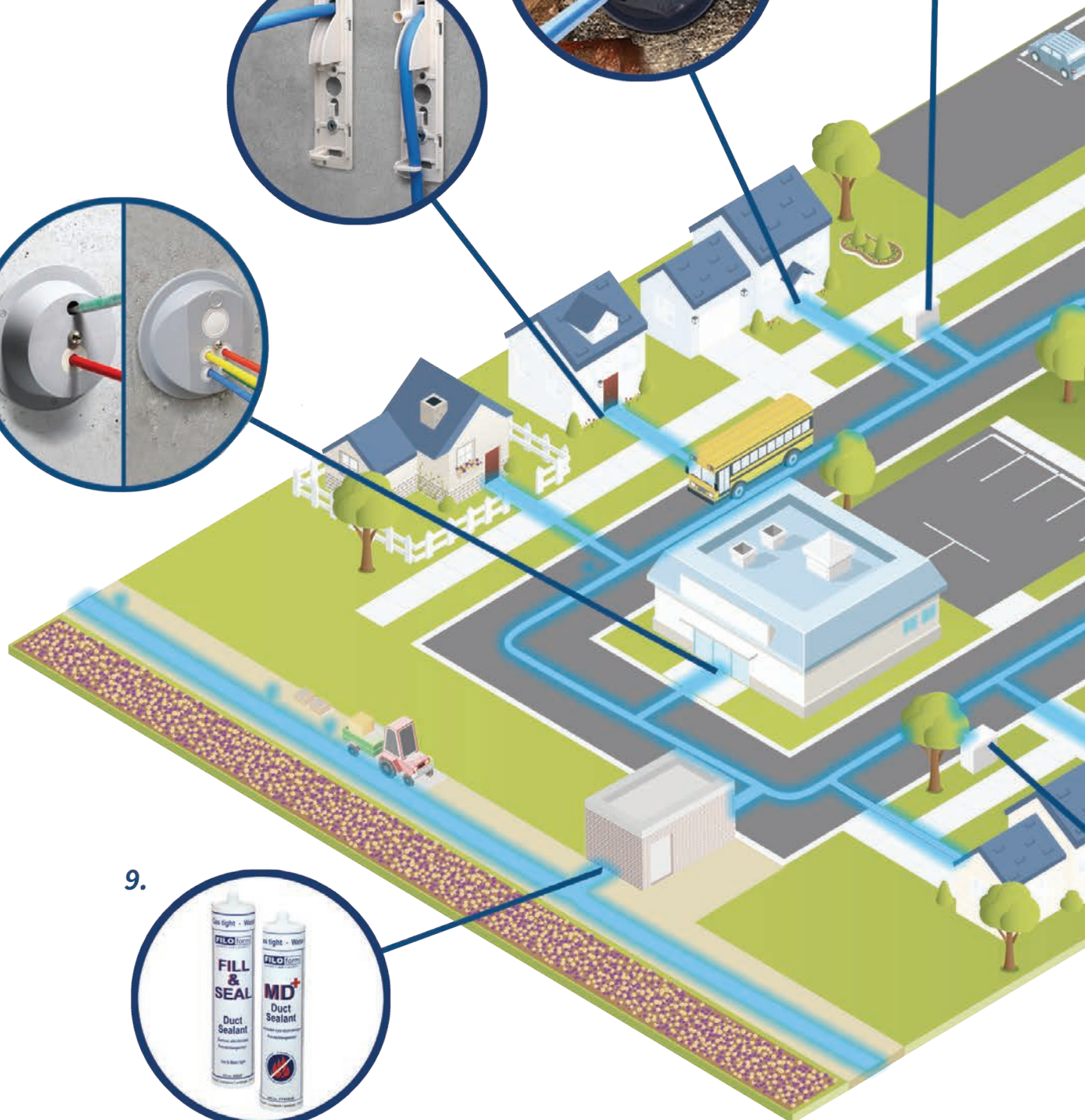
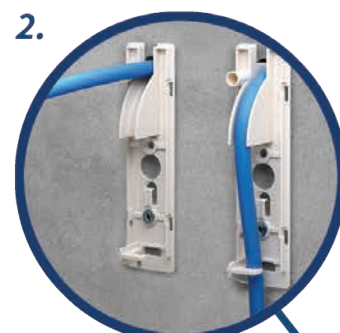
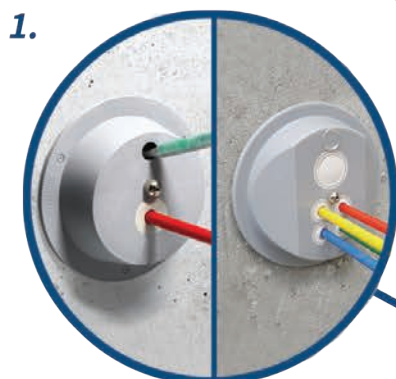
With us you will find a comprehensive range of fiber optic networks. Our products are characterized by simple and practice-oriented applications out of. They are stable, reliable and when needed expandable.

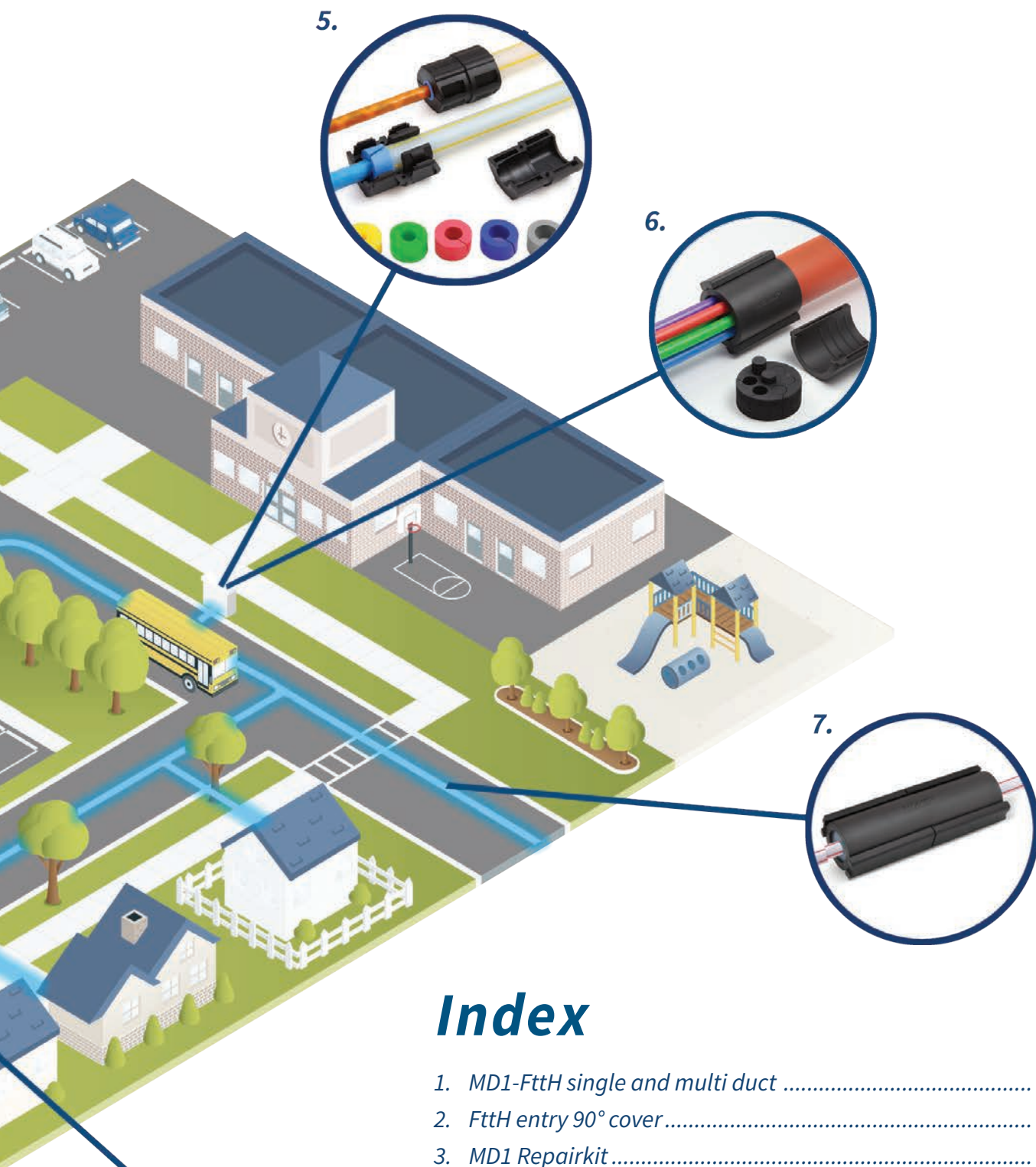
Innovative solutions at a competitive price

Almost 60 years of experience are the foundation of our competence in the development and manufacture of technically sophisticated products. Our solutions are based on current requirements and support our national like international customers with secure and reliable grid expansion.



A CRH COMPANY





Index

- 1. MD1-FttH single and multi duct Page 6
- 2. FttH entry 90° cover Page 8
- 3. MD1 Repairkit Page 9
- 4. Divisible duct seals 4 - 10 mm Page 10
- 5. Divisible duct seals 10 - 25 mm Page 12
- 6. Divisible duct seals 25 - 63 mm Page 14
- 7. Duct repair kit 5 - 25 mm Page 16
- 8. End caps and Sealing plugs Page 18
- 9. Fill & Seal and MD+ sealant Page 19

Not illustrated:

- Endcaps 4 - 50 mm Page 17
- DB bundle breakout seal Page 19



MD1-FttH single duct

Suitable for straight and angled penetrations

Features:

- Tested 2.0 bar Gas & Watertight
- Universally suitable for microducts and cables
- Quick and easy assembly
- No extensive core drilling necessary
- Also suitable for angled penetrations
- Complies with DIN 18322 underground cable laying works

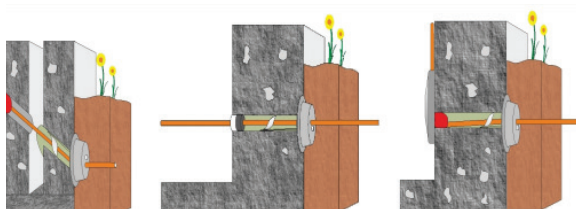


Art.-Nr.	Product Name	Ø Bore hole	Ø Microduct/cable	Order unit
80219	MD1-FttH 1 x 4 - 12 mm	16 - 20 mm	4 - 12 mm	per piece
80221	MD1-FttH 1 x 14 - 20 mm	32 - 40 mm	14 - 20 mm	per piece



MD1-FttH Multi duct

Suitable for straight and angled penetrations



Features:

- Tested 2.0 bar Gas & Watertight
- Universal, suitable for a maximum of 4 micro ducts and cables
- Quick and easy installation
- No extensive core drilling necessary
- Also suitable for angled penetrations
- Complies with DIN 18322 underground cable laying works

Art.-Nr.	Product Name	Ø Bore hole	# Microducts/cables	Order unit
80217	MD1-FttH 4 x 4-8 mm	16-32 mm	1 - 4	per piece
80216	MD1-FttH 4 x 12,5 mm / 1 x 20 mm	32-50 mm	1 - 4	per piece



Small openings
max. Ø 12,5 mm

Art.-Nr.	Ø Microduct/cable	# Microducts/cables	Ø Bore hole
80217	4 - 8 mm	1 - 4	16 - 32 mm
80216	10 mm	1 - 3	32 mm
80216	10 mm	4	40 mm
80216	12 mm	1 - 3	40 mm
80216	12 mm	4	50 mm



Large opening
max. Ø 20 mm

Art.-Nr.	Ø Microduct/cable	# Microducts/cables	Ø Bore hole
80216	14 mm	1	32 mm
80216	16 mm	1	32 mm
80216	18 mm	1	32 mm
80216	20 mm	1	32 mm



Combination
max
1 x Ø 20 mm
2 x Ø 12,5 mm

Art.-Nr.	Ø Microduct/cable	# Microducts/cables	Ø Bore hole
80216	1 x 14 mm / 2 x 4 - 8 mm	3	40 mm
80216	1 x 14 mm / 2 x 10 - 12 mm	3	50 mm
80216	1 x 16 mm / 2 x 4 - 8 mm	3	40 mm
80216	1 x 16 mm / 2 x 10 - 12 mm	3	50 mm
80216	1 x 18 mm / 2 x 4 - 8 mm	3	40 mm
80216	1 x 18 mm / 2 x 10 - 12 mm	3	50 mm
80216	1 x 20 mm / 2 x 4 - 8 mm	3	40 mm
80216	1 x 20 mm / 2 x 10 - 12 mm	3	50 mm

FttH entry 90°Sets

Art.-Nr.	Product Name	Duct Diameter (min - max)	Cable or pipe diameter (min - max)	Order Unit
80219.3	SET - MD1-FtTH + FttH entry 90° for 1x4-8mm	16 - 20 mm	4 - 8 mm	1 Set
80219.6	SET - MD1-FtTH + FttH entry 90° for 1x10-12mm	22 - 25 mm	10 - 12 mm	1 Set
80217.2	SET - MD1-FtTH + FttH entry 90° for 2x7mm	22 - 32 mm	2 x 7 mm	1 Set

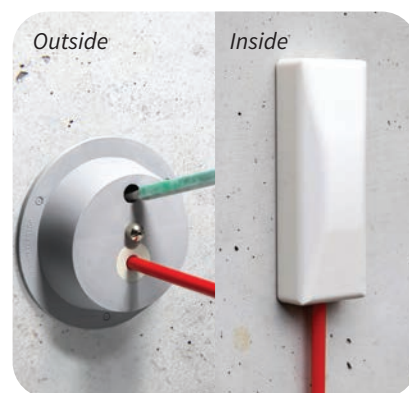


Combined FttH entry 90°Sets

(outdoor underground & indoor)

Features:

- Suitable for indoor and outdoor use
- Micro duct / cable sizes up to 12mm
- Suitable for retrofitting
- Screw mounted or optionally invisible mounted with use of Filoform fixing anchor
- Optional: Gasblocker can be installed
- Material: PC / ASA, Flame retardant
- UV- and weatherability
- Temperature range -20°C up to + 50°C



Art.-Nr.	Product Name	Duct diameter (min - max)	Cable or pipe diameter (min - max)	Dimensions (H x W x D)	Order unit
80218	FttH entry 90° 1x4-8mm (MD+)	10 - 25 mm	4 - 8 mm	120 x 45 x 28 mm	25 pcs + 1 cartridge MD+
80222	FttH entry 90° 1x10-12 / 2x7mm	22 - 32 mm	10 - 12 mm	160 x 40 x 40 mm	6 pcs + 1 cartridge MD+
88160147	Cable canal aluminium round white	-	-	1100 x 33 x 18 mm	1 piece

Divisible duct repair kit

The Filoform divisible duct repair kit is suitable for connecting and repairing subducts which contain a cable.

Features:

- Dismantling the fiber optic cabling and blowing out the cable is not necessary
- Gas and watertight up to 1 bar
- Easy and quick assembly
- For straight and angled entries
- Covers minor damage to building waterproofing
- Suitable for all common microtube sizes up to 12 mm
- Drill hole diameter up to 25 mm (other sizes on request)
- Shelf life cast resin: 36 months

Contents:

- Conical cap with lock
- Expanding cast resin
- Indoor 90° lead in assembly 1 x 10 - 12 mm
- Electrical tape
- Gloves



Description:

The Filoform building entry repair kit is designed to repair existing building entries which have been installed inadequately and/or do not provide sufficient permanent gas and watertight sealing performance. Already blown and connected fiber optic cables do not have to be blown out to install the repair kit.

As preparatory work, only the existing sealing material has to be removed. The expanding cast resin from the repair kit penetrates approximately 10 cm deep into the bore hole and seals it up to a pressure of at least 1 bar. Included in the set is a cover element with an integrated bending radius for mounting on the inside of the building.



Conical Sealing cap

Interior wall customer lead-in

Art.-Nr.	Product Name	Max. Bore hole	Max. Microduct	Order Unit
80225	MD1 Repairkit	25 mm	12 mm	1



Divisible miniduct seals

Ø 4 - 10 mm

Features:

- Gas- and water tight up to 0,5 bar
- Suitable for retro fitting
- Easy installation
- No need to slide the seal over the cable for installation
- Slim design
- Sealing rubbers with color coding
- Other versions available upon request

Art.-Nr.	Product Name	Ø Duct outside	Opening rubber seal	Color	Order Unit
823554.1	Miniduct seal 4 mm / 0,9 mm	4 mm	0,9 mm	purple	100 pcs/bag
823554.2	Miniduct seal 4 mm / 1,25 mm	4 mm	1,25 mm	red	100 pcs/bag
823554.3	Miniduct seal 4 mm / 1,6 mm	4 mm	1,6 mm	green	100 pcs/bag
823554.35	Miniduct seal 4 mm / 2,1 mm	4 mm	2,1 mm	blue	100 pcs/bag
823554.9	Miniduct End seal 4 mm	4 mm	-	black	100 pcs/bag
823555.1	Miniduct seal 5 mm / 0,9 mm	5 mm	0,9 mm	purple	100 pcs/bag
823555.2	Miniduct seal 5 mm / 1,25 mm	5 mm	1,25 mm	red	100 pcs/bag
823555.3	Miniduct seal 5 mm / 1,6 mm	5 mm	1,6 mm	green	100 pcs/bag
823555.35	Miniduct seal 5 mm / 2,1 mm	5 mm	2,1 mm	blue	100 pcs/bag
823555.4	Miniduct seal 5 mm / 2,5 mm	5 mm	2,5 mm	yellow	100 pcs/bag
823555.9	Miniduct End seal 5 mm	5 mm	-	black	100 pcs/bag
823556.1	Miniduct seal 6 mm / 0,9 mm	6 mm	0,9 mm	purple	100 pcs/bag
823556.2	Miniduct seal 6 mm / 1,25 mm	6 mm	1,25 mm	red	100 pcs/bag
823556.3	Miniduct seal 6 mm / 1,6 mm	6 mm	1,6 mm	green	100 pcs/bag
823556.35	Miniduct seal 6 mm / 2,1 mm	6 mm	2,1 mm	blue	100 pcs/bag
823556.4	Miniduct seal 6 mm / 2,5 mm	6 mm	2,5 mm	yellow	100 pcs/bag
823556.9	Miniduct End seal 6 mm	6 mm	-	black	100 pcs/bag
823557.1	Miniduct seal 7 mm / 0,9 mm	7 mm	0,9 mm	purple	100 pcs/bag
823557.2	Miniduct seal 7 mm / 1,25 mm	7 mm	1,25 mm	red	100 pcs/bag
823557.3	Miniduct seal 7 mm / 1,6 mm	7 mm	1,6 mm	green	100 pcs/bag
823557.35	Miniduct seal 7 mm / 2,1 mm	7 mm	2,1 mm	blue	100 pcs/bag
823557.4	Miniduct seal 7 mm / 2,5 mm	7 mm	2,5 mm	yellow	100 pcs/bag
823557.9	Miniduct End seal 7 mm	7 mm	-	black	100 pcs/bag
823558.1	Miniduct seal 8 mm / 0,9 mm	8 mm	0,9 mm	purple	100 pcs/bag
823558.2	Miniduct seal 8 mm / 1,25 mm	8 mm	1,25 mm	red	100 pcs/bag
823558.3	Miniduct seal 8 mm / 1,6 mm	8 mm	1,6 mm	green	100 pcs/bag
823558.35	Miniduct seal 8 mm / 2,1 mm	8 mm	2,1 mm	blue	100 pcs/bag
823558.4	Miniduct seal 8 mm / 2,5 mm	8 mm	2,5 mm	yellow	100 pcs/bag
823558.9	Miniduct End seal 8 mm	8 mm	-	black	100 pcs/bag
8235510.09	Miniduct seal 10 mm / 0,9 mm	10 mm	0,9 mm	purple	100 pcs/bag
8235510.125	Miniduct seal 10 mm / 1,25 mm	10 mm	1,25 mm	red	100 pcs/bag
8235510.16	Miniduct seal 10 mm / 1,6 mm	10 mm	1,6 mm	green	100 pcs/bag
8235510.21	Miniduct seal 10 mm / 2,1 mm	10 mm	2,1 mm	blue	100 pcs/bag
8235510.25	Miniduct seal 10 mm / 2,5 mm	10 mm	2,5 mm	yellow	100 pcs/bag
8235510.29	Miniduct seal 10 mm / 2,9 mm	10 mm	2,9 mm	orange	100 pcs/bag
8235510.33	Miniduct seal 10 mm / 3,3 mm	10 mm	3,3 mm	brown	100 pcs/bag
8235510.38	Miniduct seal 10 mm / 3,8 mm	10 mm	3,8 mm	grey	100 pcs/bag

End seals

Ø 4 - 8 mm

(see table left / page 10)



Sealing rubbers

Ø 4 - 8 mm



Art.-Nr.	Product Name	Color	Order Unit
823550.1	Sealing rubbers 0,9 mm	purple	100 pcs/bag
823550.2	Sealing rubbers 1,25 mm	red	100 pcs/bag
823550.3	Sealing rubbers 1,6 mm	green	100 pcs/bag
823550.35	Sealing rubbers 2,1 mm	blue	100 pcs/bag
823550.4	Sealing rubbers 2,5 mm	yellow	100 pcs/bag
823550.9	Sealing rubbers closed	black	100 pcs/bag

Ø Duct (outside / inside mm)	Ø opening sealing rubber (mm)																																						
	0,9			1,25			1,6			2,1			2,5			2,9			3,3			3,8																	
	Ø Fiber / Caliber size (mm)																																						
	0,8	0,9	1,0	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2,0	2,1	2,2	2,3	2,4	2,5	2,6	2,7	2,8	2,9	3,0	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9	4,0						
4 / 2,5						823554.1			823554.2																														
4 / 3															823554.35																								
5 / 2,5									823555.1																														
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8 / 3																																							
8 / 4																																							
8 / 5																																							
10 / 6																																							
10 / 8*																																							

* Only suitable for pipes with a smooth inner wall



Divisible duct seals

Ø 10 - 25 mm

Features:

- Gas and Watertight up to 0,5 bar.
- Suitable for retrofitting
- Easy installation
- Pull-out force duct seal vs duct $\geq 100N$ up to $\geq 250N$
- Operating temperature range $-20^{\circ}C$ up to $+60^{\circ}C$
- Slim design
- Sealing rubbers with color coding
- Other versions available upon request

Contents

- 2 pieces of plastic shells with snap lock
- 1 piece cutting block
- 1 rubber seal
- Illustrated installation instructions

10 mm Outer Diameter

Art.-Nr.	Product Name	Ø Duct outside	Ø Cable	Color	Order unit
822810.0	Duct seal 10 mm / 2,5 - 1,5 mm	10 mm	2,5 - 1,5 mm	purple	25 pcs/carton
822810.1	Duct seal 10 mm / 3,5 - 2,5 mm	10 mm	3,5 - 2,5 mm	blue	25 pcs/carton
822810.2	Duct seal 10 mm / 5,0 - 3,5 mm	10 mm	5,0 - 3,5 mm	green	25 pcs/carton
822810.3	Duct seal 10 mm / 6,5 - 5,0 mm	10 mm	6,5 - 5,0 mm	red	25 pcs/carton
822810.4	Duct seal 10 mm / 7,5 - 6,5 mm	10 mm	7,5 - 6,5 mm	blue	25 pcs/carton

12 mm Outer Diameter

Art.-Nr.	Product Name	Ø Duct outside	Ø Cable	Color	Order unit
822812.0	Duct seal 12 mm / 2,5 - 1,5 mm	12 mm	2,5 - 1,5 mm	purple	25 pcs/carton
822812.1	Duct seal 12 mm / 3,5 - 2,5 mm	12 mm	3,5 - 2,5 mm	blue	25 pcs/carton
822812.2	Duct seal 12 mm / 5,0 - 3,5 mm	12 mm	5,0 - 3,5 mm	green	25 pcs/carton
822812.3	Duct seal 12 mm / 6,5 - 5,0 mm	12 mm	6,5 - 5,0 mm	red	25 pcs/carton
822812.4	Duct seal 12 mm / 8,0 - 6,5 mm	12 mm	8,0 - 6,5 mm	darkblue	25 pcs/carton
822812.5	Duct seal 12 mm / 8,5 - 7,0 mm	12 mm	8,5 - 7,0 mm	lightblue	25 pcs/carton

Other versions available upon request.

14 mm Outer diameter

Art.-Nr.	Product Name	Ø Duct outside	Ø Cable	Color	Order Unit
822814.7	Duct seal 14 mm / 2,5 - 1,5 mm	14 mm	2,5 - 1,5 mm	purple	25 pcs/bag
822814.8	Duct seal 14 mm / 3,5 - 2,5 mm	14 mm	3,5 - 2,5 mm	yellow	25 pcs/bag
822814.0	Duct seal 14 mm / 5,0 - 3,5 mm	14 mm	5,0 - 3,5 mm	green	25 pcs/bag
822814.05	Duct seal 14 mm / 6,5 - 5,0 mm	14 mm	6,5 - 5,0 mm	red	25 pcs/bag
822814.1	Duct seal 14 mm / 8,0 - 6,5 mm	14 mm	8,0 - 6,5 mm	blue	25 pcs/bag
822814.2	Duct seal 14 mm / 10,0 - 8,0 mm	14 mm	10,0 - 8,0 mm	grey	25 pcs/bag

16 mm Outer diameter

Art.-Nr.	Product Name	Ø Duct outside	Ø Cable	Color	Order Unit
822816.7	Duct seal 16 mm / 2,5 - 1,5 mm	16 mm	2,5 - 1,5 mm	purple	25 pcs/bag
822816.8	Duct seal 16 mm / 3,5 - 2,5 mm	16 mm	3,5 - 2,5 mm	yellow	25 pcs/bag
822816.0	Duct seal 16 mm / 5,0 - 3,5 mm	16 mm	5,0 - 3,5 mm	green	25 pcs/bag
822816.05	Duct seal 16 mm / 6,5 - 5,0 mm	16 mm	6,5 - 5,0 mm	red	25 pcs/bag
822816.1	Duct seal 16 mm / 8,0 - 6,5 mm	16 mm	8,0 - 6,5 mm	blue	25 pcs/bag
822816.2	Duct seal 16 mm / 10,0 - 8,0 mm	16 mm	10,0 - 8,0 mm	grey	25 pcs/bag

18 mm Outer diameter

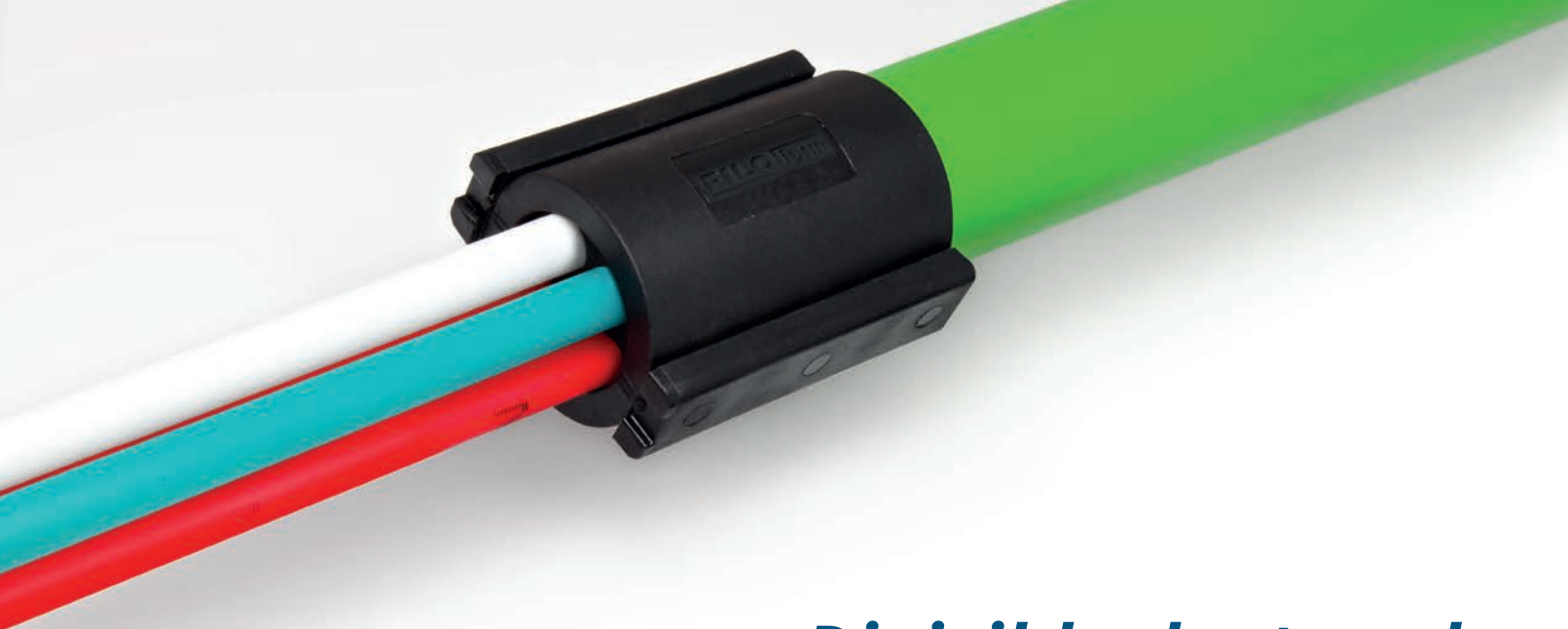
Art.-Nr.	Product Name	Ø Duct outside	Ø Cable	Color	Order Unit
822818.5	Duct seal 18 mm / 5,0 - 3,5 mm	18 mm	5,0 - 3,5 mm	green	25 pcs/bag
822818.4	Duct seal 18 mm / 6,5 - 5,0 mm	18 mm	6,5 - 5,0 mm	red	25 pcs/bag
822818.3	Duct seal 18 mm / 8,0 - 6,5 mm	18 mm	8,0 - 6,5 mm	blue	25 pcs/bag
822818.2	Duct seal 18 mm / 9,5 - 8,0 mm	18 mm	9,5 - 8,0 mm	grey	25 pcs/bag
822818.1	Duct seal 18 mm / 12,0 - 9,4 mm	18 mm	12,0 - 9,4 mm	black	25 pcs/bag

20 mm Outer diameter

Art.-Nr.	Product Name	Ø Duct outside	Ø Cable	Color	Order Unit
822820.5	Duct seal 20 mm / 5,0 - 3,5 mm	20 mm	5,0 - 3,5 mm	green	25 pcs/bag
822820.4	Duct seal 20 mm / 6,5 - 5,0 mm	20 mm	6,5 - 5,0 mm	red	25 pcs/bag
822820.3	Duct seal 20 mm / 8,0 - 6,5 mm	20 mm	8,0 - 6,5 mm	blue	25 pcs/bag
822820.2	Duct seal 20 mm / 10,0 - 8,0 mm	20 mm	10,0 - 8,0 mm	grey	25 pcs/bag
822820.1	Duct seal 20 mm / 12,0 - 9,4 mm	20 mm	12,0 - 9,4 mm	black	25 pcs/bag

25 mm Outer diameter

Art.-Nr.	Product Name	Ø Duct outside	Ø Cable	Color	Order Unit
822825.2	Duct seal 25 mm / 3,7 - 4,7 mm	25 mm	3,7 - 4,7 mm	grey	25 pcs/bag
822825.3	Duct seal 25 mm / 4,7 - 6,5 mm	25 mm	4,7 - 6,5 mm	pink/blue	25 pcs/bag
822825.4	Duct seal 25 mm / 6,5 - 8,5 mm	25 mm	6,5 - 8,5 mm	white	25 pcs/bag
822825.5	Duct seal 25 mm / 8,5 - 10,0 mm	25 mm	8,5 - 10,0 mm	red	25 pcs/bag
822825.6	Duct seal 25 mm / 10,0 - 12,0 mm	25 mm	10,0 - 12,0 mm	green	25 pcs/bag
822825.6	Duct seal 25 mm / 12,0 - 14,0 mm	25 mm	12,0 - 14,0 mm	yellow	25 pcs/bag



Divisible duct seals

Ø 25 - 63 mm

Features:

- Gas and watertight $\geq 0,25$ bar
- Pull-out force duct seal vs duct ≥ 1000 N
- Suitable for retrofitting
- Easy installation
- Slim design
- Includes cores of the recesses
- Other versions available upon request

Contents:

- Plastic scales (2 items)
- Closing keys (2 items)
- Synthetic rubber plug for cavity shapes
- Illustrated installation instructions

Art.-Nr.	Product Name	Ø Duct outside	Configuration	Order unit
822691F	Duct seal HDPE 25 / 6 x 4mm	25 mm	6 x 4 mm	20 pcs/carton
8227005F	Duct seal HDPE 25 / 1 x 10 mm	25 mm	1 x 10 mm	20 pcs/carton
822692F	Duct seal HDPE 25 / 1 x 12mm	25 mm	1 x 12 mm	20 pcs/carton
822693F	Duct seal HDPE 25 / 1 x C12-7mm	25 mm	1 x 12-7 mm	20 pcs/carton
822697F	Duct seal HDPE 25 / C5 - 15 mm	25 mm	C5 - 15 mm	20 pcs/carton
822680F	Duct seal HDPE 32 / 2 x 7 mm + 1 x 12 mm	32 mm	2 x 7 mm + 1 x 12 mm	20 pcs/carton
822626F	Duct seal HDPE 32 / 1 x 10 mm + 3 x 7 mm	32 mm	1 x 10 mm + 3 x 7 mm	20 pcs/carton
822669F	Duct seal HDPE 32 / 7 x 7 mm	32 mm	7 x 7 mm	20 pcs/carton
822627F	Duct seal HDPE 32 / 1 x 12, 10, 7,5 mm	32 mm	1 x 12 mm + 1 x 10 mm + 1 x 7,5 mm	20 pcs/carton
822632F	Duct seal HDPE 32 / 3 x 10 mm	32 mm	3 x 10 mm	20 pcs/carton
822660F	Duct seal HDPE 32 / 4 x 10 mm	32 mm	4 x 10 mm	20 pcs/carton
822661F	Duct seal HDPE 32 / 2 x 10 mm + 1 x C8 - 14 mm	32 mm	2 x 10 mm + 1 x C8 - 14 mm	20 pcs/carton
8227002F	Duct seal HDPE 32 / 1 x C11 - 16 - 22 mm	32 mm	1 x C11 - 16 - 22 mm	20 pcs/carton
822667F	Duct seal HDPE 32 / 3 x 12 mm	32 mm	3 x 12 mm	20 pcs/carton
822656F	Duct seal HDPE 32 / 1 x 14 mm	32 mm	1 x 14 mm	20 pcs/carton
8227001F	Duct seal HDPE 32 / 12 x 4 mm	32 mm	12 x 4 mm	20 pcs/carton

Art.-Nr.	Product Name	Ø Duct outside	Configuration	Order Unit
822623F	Duct seal HDPE 40 / 24 x 4 mm	40 mm	24 x 4 mm	10 pcs/carton
822681F	Duct seal HDPE 40 / 2 x 7 mm + 1 x 12 mm	40 mm	2 x 7 mm + 1 x 12 mm	10 pcs/carton
822696F	Duct seal HDPE 40 / 7 x 7 + 7 x 3 mm	40 mm	7 x 7 + 7 x 3 mm	10 pcs/carton
822624F	Duct seal HDPE 40 / 10 x 7 mm	40 mm	10 x 7 mm	10 pcs/carton
822642F	Duct seal HDPE 40 / 1 x 10 mm + 3 x 7 mm	40 mm	1 x 10 mm + 3 x 7 mm	10 pcs/carton
822690F	Duct seal HDPE 40 / 4 x 10 + 4 x 7 mm	40 mm	4 x 10 + 4 x 7 mm	10 pcs/carton
822694F	Duct seal HDPE 40 / 4 x 10 + 1C6-14 mm	40 mm	4 x 10 + 1C6-14 mm	10 pcs/carton
822621F	Duct seal HDPE 40 / 8 x 7 mm + 1 x 12 mm	40 mm	8 x 7 mm + 1 x 12 mm	10 pcs/carton
822640F	Duct seal HDPE 40 / 5 x 10 mm	40 mm	5 x 10 mm	10 pcs/carton
822659F	Duct seal HDPE 40 / 7 x 10 mm, thin wall	40 mm	7 x 10 mm	10 pcs/carton
822662F	Duct seal HDPE 40 / 3 x 10 mm + 1C8 - 18 mm	40 mm	3 x 10 mm + 1C8 - 18 mm	10 pcs/carton
8227003F	Duct seal HDPE 40 / 1 x C11 - 16-22 mm	40 mm	1 x C11 - 16-22 mm	10 pcs/carton
822625F	Duct seal HDPE 40 / 4 x 12 mm	40 mm	4 x 12 mm	10 pcs/carton
822663F	Duct seal HDPE 40 / 2 x 12 mm + 1C8 - 18 mm	40 mm	2 x 12 mm + 1C8 - 18 mm	10 pcs/carton
822688F	Duct seal HDPE 40 / 1 x 14 mm	40 mm	1 x 14 mm	10 pcs/carton
822643F	Duct seal HDPE 40 / 3 x 14 mm	40 mm	3 x 14 mm	10 pcs/carton
822641F	Duct seal HDPE 40 / 2 x 15 mm + 2 x 8,4 - 13,4 mm	40 mm	2 x 15 mm + 2 x 8,4 - 13,4 mm	10 pcs/carton
822698F	Duct seal HDPE 40 / 1 x 24 mm	40 mm	1 x 24 mm	10 pcs/carton
822683F	Duct seal HDPE 50 / 8 x 10 mm	50 mm	8 x 10 mm	10 pcs/carton
822684F	Duct seal HDPE 50 / 8 x 7 mm + 1 x 16 mm	50 mm	8 x 7 mm + 1 x 16 mm	10 pcs/carton
822652F	Duct seal HDPE 50 / 18 x 7 mm	50 mm	18 x 7 mm	10 pcs/carton
822670F	Duct seal HDPE 50 / 8 x 7 mm + 1 x 14 mm	50 mm	8 x 7 mm + 1 x 14 mm	10 pcs/carton
822651F	Duct seal HDPE 50 / 10 x 7 mm + 1 x 12 mm	50 mm	10 x 7 mm + 1 x 12 mm	10 pcs/carton
822676F	Duct seal HDPE 50 / 12 x 7 mm + 1 x 14 mm	50 mm	12 x 7 mm + 1 x 14 mm	10 pcs/carton
822671F	Duct seal HDPE 50 / 7 x 7 mm + 1 x C8 - 18,5 mm	50 mm	7 x 7 mm + 1 x C8 - 18,5 mm	10 pcs/carton
822629F	Duct seal HDPE 50 / 7 x 10 mm	50 mm	7 x 10 mm	10 pcs/carton
822674F	Duct seal HDPE 50 / 9 x 10 mm, thin wall	50 mm	9 x 10 mm	10 pcs/carton
822673F	Duct seal HDPE 50 / 5 x 10 mm + 1C8 - 18,5 mm	50 mm	5 x 10 mm + 1C8 - 18,5 mm	10 pcs/carton
822685F	Duct seal HDPE 50 / 2 x 20 mm	50 mm	2 x 20 mm	10 pcs/carton
822650F	Duct seal HDPE 50 / 7 x 12 mm	50 mm	7 x 12 mm	10 pcs/carton
822672F	Duct seal HDPE 50 / 5 x 12 mm + 1C8 - 18,5 mm	50 mm	5 x 12 mm + 1C8 - 18,5 mm	10 pcs/carton
822628F	Duct seal HDPE 50 / 1 x 15,5 mm + 3 x 12 mm	50 mm	1 x 15,5 mm + 3 x 12 mm	10 pcs/carton
822657F	Duct seal HDPE 50 / 7 x 14 mm, thin wall	50 mm	7 x 14 mm	10 pcs/carton
822666F	Duct seal HDPE 50 / 4 x 16 mm	50 mm	4 x 16 mm	10 pcs/carton
8227004F	Duct seal HDPE 50 / 1 x C11 - 16 - 22 mm + 1 x C11-16	50 mm	1 x C11 - 16 - 22 mm + 1 x C11-16	10 pcs/carton
822658F	Duct seal HDPE 63 / 24 x 7 mm	63 mm	24 x 7 mm	10 pcs/carton
822664F	Duct seal HDPE 63 / 22 x 7 mm + 1 x 12 mm	63 mm	22 x 7 mm + 1 x 12 mm	10 pcs/carton
822653F	Duct seal HDPE 63 / 24 x 7 mm + 1 x 14 mm	63 mm	24 x 7 mm + 1 x 14 mm	10 pcs/carton
822668F	Duct seal HDPE 63 / 15 x 10 mm, thin wall	63 mm	15 x 10 mm	10 pcs/carton
822675F	Duct seal HDPE 63 / 9 x 12 mm	63 mm	9 x 12 mm	10 pcs/carton
822665F	Duct seal HDPE 63 / 12 x 12 mm, thin wall	63 mm	12 x 12 mm	10 pcs/carton
822654F	Duct seal HDPE 63 / 7 x 14 mm	63 mm	7 x 14 mm	10 pcs/carton
822677F	Duct seal HDPE 63 / 6 x 16 mm	63 mm	6 x 16 mm	10 pcs/carton
822689F	Duct seal HDPE 63 / 7 x 16 mm	63 mm	7 x 16 mm	10 pcs/carton
822686F	Duct seal HDPE 63 / 4 x 20 mm	63 mm	4 x 20 mm	10 pcs/carton



Divisible duct repair kit

Features:

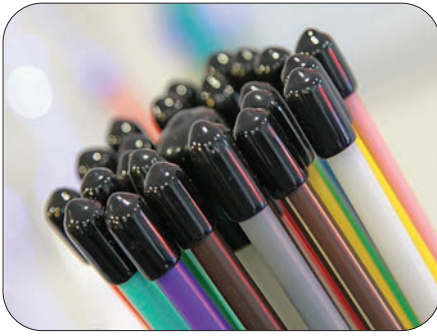
- Gas and watertight up to 0,5 bar (During 30 minutes up to 10 bar)
- For connecting and repairing of damaged ducts
- Suitable for retro fitting
- Applicable for direct burying
- Easy installation
- Slim design
- Rubbers seals with color coding

Without Gas-Stop

Art.-Nr.	Product Name	Ø Duct outside	Color	Order Unit
823505	Divisible duct repair kit 5 mm	5 mm	grey	10 pcs/carton
823506	Divisible duct repair kit 6 mm	6 mm	black	10 pcs/carton
823507	Divisible duct repair kit 7 mm	7 mm	blue	10 pcs/carton
823508	Divisible duct repair kit 8 mm	8 mm	white	10 pcs/carton
823510	Divisible duct repair kit 10 mm	10 mm	red	10 pcs/carton
823512	Divisible duct repair kit 12 mm	12 mm	green	10 pcs/carton
823514	Divisible duct repair kit 14 mm	14 mm	yellow	10 pcs/carton
823516	Divisible duct repair kit 16 mm	16 mm	purple	10 pcs/carton
823518	Divisible duct repair kit 20 mm	18 mm	cyan	10 pcs/carton
823520	Divisible duct repair kit 20 mm	20 mm	brown	10 pcs/carton
823525	Divisible duct repair kit 25 mm	25 mm	orange	10 pcs/carton

With Gas-Stop

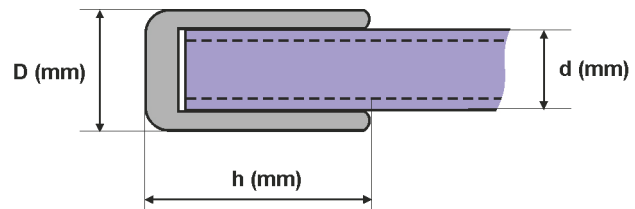
Art.-Nr.	Product Name	Ø Duct outside	Color	Order Unit
823505GS	Divisible duct repair kit 5 mm + Gas-Stop	5 mm	grey	10 pcs/carton
823507GS	Divisible duct repair kit 7 mm + Gas-Stop	7 mm	blue	10 pcs/carton
823508GS	Divisible duct repair kit 8 mm + Gas-Stop	8 mm	white	10 pcs/carton
823510GS	Divisible duct repair kit 10 mm + Gas-Stop	10 mm	red	10 pcs/carton
823512GS	Divisible duct repair kit 12 mm + Gas-Stop	12 mm	green	10 pcs/carton
823514GS	Divisible duct repair kit 14 mm + Gas-Stop	14 mm	yellow	10 pcs/carton
823516GS	Divisible duct repair kit 16 mm + Gas-Stop	16 mm	purple	10 pcs/carton
823520GS	Divisible duct repair kit 20 mm + Gas-Stop	20 mm	brown	10 pcs/carton



End caps

Features:

- Dirt and splash water tight
- Durable seal due to quality PVC material
- Suitable for new construction



Art.-Nr.	Product Name	Ø Duct outside	Ø (outside) x L	Color	Order Unit
822040	End caps 4 mm	4 mm	6,2 x 15 mm	black	100 pcs/bag
822050	End caps 5 mm	5 mm	7 x 15 mm	black	100 pcs/bag
822050.5	End caps 5 mm	5 mm	7 x 15 mm	transparent	100 pcs/bag
822060	End caps 6 mm	6 mm	8 x 20 mm	black	100 pcs/bag
822060.5	End caps 6 mm	6 mm	8 x 20 mm	transparent	100 pcs/bag
822070	End caps 7 mm	7 mm	8,9 x 20 mm	black	100 pcs/bag
822070.5	End caps 7 mm	7 mm	8,9 x 20 mm	transparent	100 pcs/bag
822080	End caps 10 mm	10 mm	12 x 20 mm	black	100 pcs/bag
822080.5	End caps 10 mm	10 mm	12 x 25 mm	transparent	100 pcs/bag
822090	End caps 12 mm	12 mm	15 x 20 mm	black	100 pcs/bag
822095	End caps 14 mm	14 mm	17,4 x 25 mm	black	100 pcs/bag
822097	End caps 16 mm / DB 2 x 10 mm	16 mm	17,5 x 25 mm	black	100 pcs/bag
822099	End caps 18 mm	18 mm	19,5 x 30 mm	black	100 pcs/bag
822100	End caps 20 mm	20 mm	22 x 25 mm	black	100 pcs/bag
822220	End caps DB 7 x 7 mm	22 mm	25 x 38 mm	black	100 pc./carton
822250	End caps 25 mm / DB 2 x 14 mm	24 mm	27 x 38 mm	black	100 pc./carton
822286	End caps DB 12 x 7 mm	30 mm	32 x 38 mm	black	100 pc./carton
822320	End caps 32 mm / DB 3 x 16 / DB 4 x 14 / DB 7 x 10 / DB 12 x 7 + 1 x 14 mm	32 mm	34 x 38 mm	black	100 pc./carton
822350	End caps 35 mm / DB 7 x 12 mm	35 mm	39 x 38 mm	black	100 pc./carton
822400	End caps 40 mm / DB 6 x 14 / DB 12 x 10 / DB 22 x 7 + 1 x 12 mm / DB 24 x 7	40 mm	42 x 38 mm	black	100 pc./carton
822440	End caps DB 7 x 14 mm / DB 24 x 7 + 1 x 14 mm	42 mm	45,2 x 38 mm	black	100 pc./carton
822500	End caps 50 mm / DB 6 x 16 mm / DB 4 x 20 mm	50 mm	52 x 38 mm	black	50 pc./carton

End caps for DB duct bundles

Features:

- Universal application for DB duct bundles from Ø35 - 50 mm
- Reusable (type GTEK-FttX)
- Gas and watertight up to at least 0.5 bar (type GTAK-FttX)
- Quick and easy assembly without special tools
- Reliable sealing without heat- or cold shrinking
- High mechanical strength
- Unlimited shelf life
- High quality, UV and weather resistant silicone



Art. Nr.	Product Name	min. Ø duct bundle	max. Ø duct bundle	Product Unit
88601140	GTAK-FttX, with gel filling	35 mm	50 mm	12 pcs
88601141	GTEK-FttX, without gel filling	35 mm	50 mm	12 pcs



End plugs

Features:

- Dirt and splash water tight
- Tapered to fit a variety of duct diameters
- Compressible for better sealing of both smooth and ribbed inner wall of the duct
- Material EPDM or silicone rubber
- Temperature range -20°C up to + 60°C
- Excellent Chemical and Hydrocarbon Resistance

Art.-Nr.	Product Name	Ø Duct outside	Ø (min - max) x L	Order Unit
821070	End plug 7 / 4 + 7 / 3,5	7 mm	1,6 - 5,1 x 19,1 mm	1.000 pcs/ bag
821080	End plug 10 / 6	10 mm	4 - 8 x 20 mm	1.000 pcs/bag
821090	End plug 12 / 8 + 10 / 8	12 + 10 mm	6,4 - 9,5 x 19,1 mm	500 pcs/bag
821095	End plug 14 / 10	14 mm	8,0 - 12,7 x 20,7 mm	250 pcs/bag
821097	End plug 16 / 12	16 mm	9,5 - 14,3 x 25,4 mm	250 pcs/bag
821100	End plug 20 / 15	20 mm	12,7 - 16,7 x 25,4 mm	250 pcs/bag



DB-bundle breakout seal

Features:

- Gas and Watertight $\geq 0,25$ bar
- Easy installation
- Slim design
- Recesses in plug are provided with blind plugs

Art.-Nr.	Product Name	Ø Duct outside	Configuration	Order unit
822741	DB bundle breakout seal 3 x 14 mm / 40 mm	40 mm	3 x 14 mm	2 pcs./carton
822750	DB bundle breakout seal 7 x 12 mm / 50 mm	50 mm	7 x 12 mm	2 pcs./carton
822753	DB bundle breakout seal 9 x 7 mm + 1 x 14 mm / 50 mm	50 mm	9 x 7 mm + 1 x 14 mm	2 pcs./carton
822760	DB bundle breakout seal 7 x 14 mm / 63 mm	63 mm	7 x 14 mm	2 pcs./carton
822770	DB bundle breakout seal 24 x 7 mm + 14 mm / 63 mm	63 mm	24 x 7 mm + 1 x 14 mm	2 pcs./carton
822771	DB bundle breakout seal 12 x 10 mm / 63 mm	63 mm	12 x 10 mm	2 pcs./carton
822772	DB bundle breakout seal 4 x 20 mm / 63 mm	63 mm	4 x 20 mm	2 pcs./carton

Other versions available upon request



MD+ Sealant

Features:

- Flexible, one component, adhesive and sealing compound in a cartridge - (310ml)
- High levels of Gas and Water tightness
- Removable / Re-enterable
- Shows Fire resistance properties

Art.-Nr.	Product Name	Order Unit
80849	MD+ Sealant 310 ml	1 piece

Fill & Seal Sealant

Features:

- Flexibele 1-component adhesive and sealer
- Good resistance against water, alkaline, chemical agents, oil and greases
- Excellent UV and weather resistance
- Non toxic, neutral, odourless

Art.-Nr.	Product Name	Order Unit
80840	Fill & Seal Sealant 290 ml	1 piece



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