

FILO form

connect ► seal ► protect ►

NORATEX S.A.

ΗΛΕΚΤΡΟΛΟΓΙΚΟ ΥΛΙΚΟ &
ΕΝΕΡΓΕΙΑΚΑ ΣΥΣΤΗΜΑΤΑ

Γεώργιος Χριστοδούλου

Ηλεκτρολόγος Μηχανικός MSc
Διευθύνων Σύμβουλος

17ο χλμ. Λεωφ. Σπάτων, 153 51 Παλλήνη

e: georgios@noratex.gr w: www.noratex.gr

t: 210 60 30 221-5 f: 210 60 30 226 m: 6944 26 29 02

connect ►
seal ►
protect ►

Specialist in sealing technology

55 years experience and expertise as supplier and producer

connect ► seal ► protect ►

As energy, communications and continuous innovation are all inextricably linked with our lives today, modern communication and utility networks will play a vital role in the creation of our future society.

Filoform's mission is to assist you in planning for this opportunity now and to provide you with the best solutions, applications and products to protect your investment in the future.

For over 55 years, we have developed expertise in manufacturing and supplying quality products and solutions to connect, seal and protect the

underground cable networks of our international and domestic customers.

Filoform supplies a comprehensive range of quality solutions, applications and products to meet the general, specialist and bespoke requirements of cable, fibre optic and utility networks. Our fibre solutions are characterized by their simplicity, design and the ability to retrofit.

We are at the forefront of R&D in our industry. This ensures that we meet our customers' evolving demands with effective, bespoke and smart solutions. And if it does not exist, we create it.



connect ► seal ► protect ►



Divisible duct seals

Ø 25-63 mm

Filoform's divisible duct seals are suitable for gas and watertight sealing when using HDPE ducts, which contain smaller ducts or cables.

All openings in the rubber inserts contains blind plugs which can be removed when the opening is being used. This makes the system more flexible and suitable for adding new cables or tubes on future installations.

After installing the rubber insert, the rubber is

placed against the HDPE duct and secured in place using the side locking keys.

Filoform's divisible sealing system guarantees easy installation using various different cable and duct configurations for new and existing installations.

Filoform has its own R&D department so rubber inserts can be customised to suit your specific needs. We can also give advice on creating new sealing solutions that fits your demands.

FEATURES

- Gas and watertight up to 0,5 bar (depending on plug configuration)
- Pull-out force duct seal vs duct $\geq 1000\text{N}$
- Suitable for retrofitting
- Easy installation
- Slim design
- Rubber inserts contains blind plugs
- Other versions available upon request

For enquiries contact our sales department.



Divisible duct seals

Ø 10-20 mm

Filoform's divisible duct seals are suitable for gas and watertight sealing when using subducts, which contain smaller ducts or cables.

Filoform's divisible sealing system enables you to install it easily onto new and existing installations. The compact design means, these seals can be installed in all situations, even in locations with difficult access.

A gas and watertight seal is achieved by screwing the duct seal onto the subduct, this action compresses the rubber and seals the duct.

FEATURES

- Gas and watertight up to 0,5 bar
- Pull-out force duct seal vs duct $\geq 100N$
- Rubber seals with color coding
- Suitable for retrofitting
- Easy installation
- Slim design
- Other versions available upon request

For enquiries contact our sales department.



Divisible miniduct seals

Ø 4-8 mm

Filoform miniduct seals are suitable for gas and watertight sealing when using miniducts, which contain fibre optic cables. The miniduct seal is easy to install on new installations and existing installations.

Filoform's clever divisible design, now means that pushing the seal over and down the fibre is no longer a problem. Our divisible compact design can be installed in every situation, even in locations with difficult access.

The conical shape of the rubber makes it suitable for a variety of cable sizes. After placing the rubber around the cable, this will be compressed and secured in place with the plastic housing.

FEATURES

- Gas and watertight up to 0,5 bar
- Pull-out force duct seal vs duct > 20N
- No need to slide the seal over the glass fibre for installation
- Rubbers seals with color coding
- Suitable for retro fitting
- Easy installation
- Slim design
- Other versions available upon request

For enquiries contact our sales department.



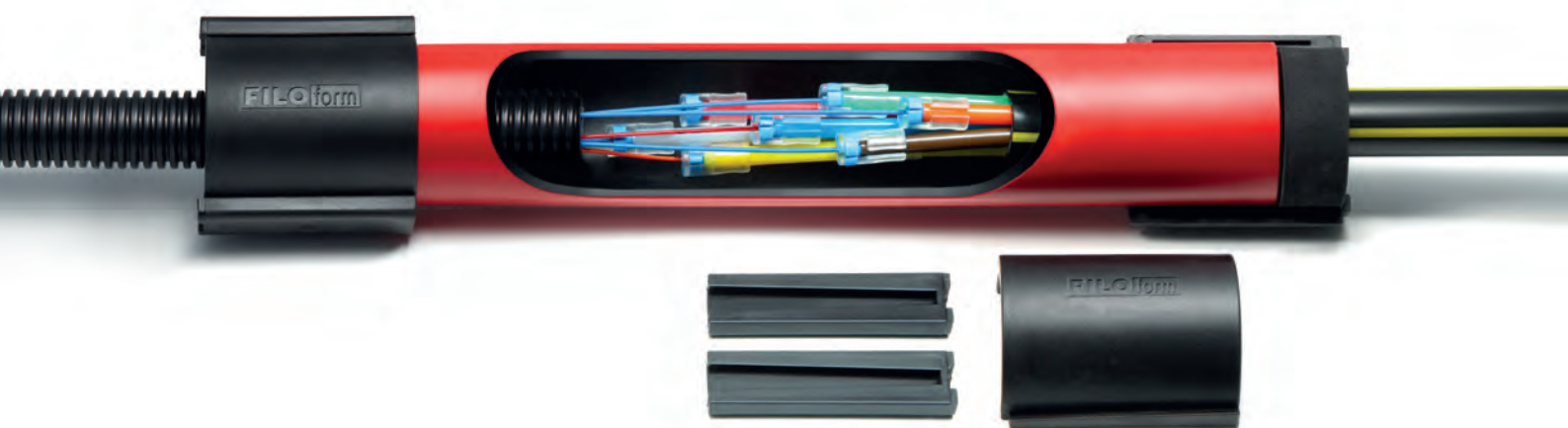
Breakout seal

Filoform's DB-bundle breakout seals are suitable for gas and watertight sealing when using subduct bundles surrounded with a plastic sheath.

Depending on the type of DB-bundle, space is created in a larger duct to spread the ducts from the DB-bundle. These are sealed by the divisible

duct sealing set. Subsequently, a similar seal is made between the DB-bundle and the HDPE duct.

The advantage of this solution is that in many underground closures, standard ports for sealing to ducts with a diameter of 32, 40, 50 or 63 mm are provided. With this solution, you can make a simple waterproof entry of a DB-bundle.



Transition seals

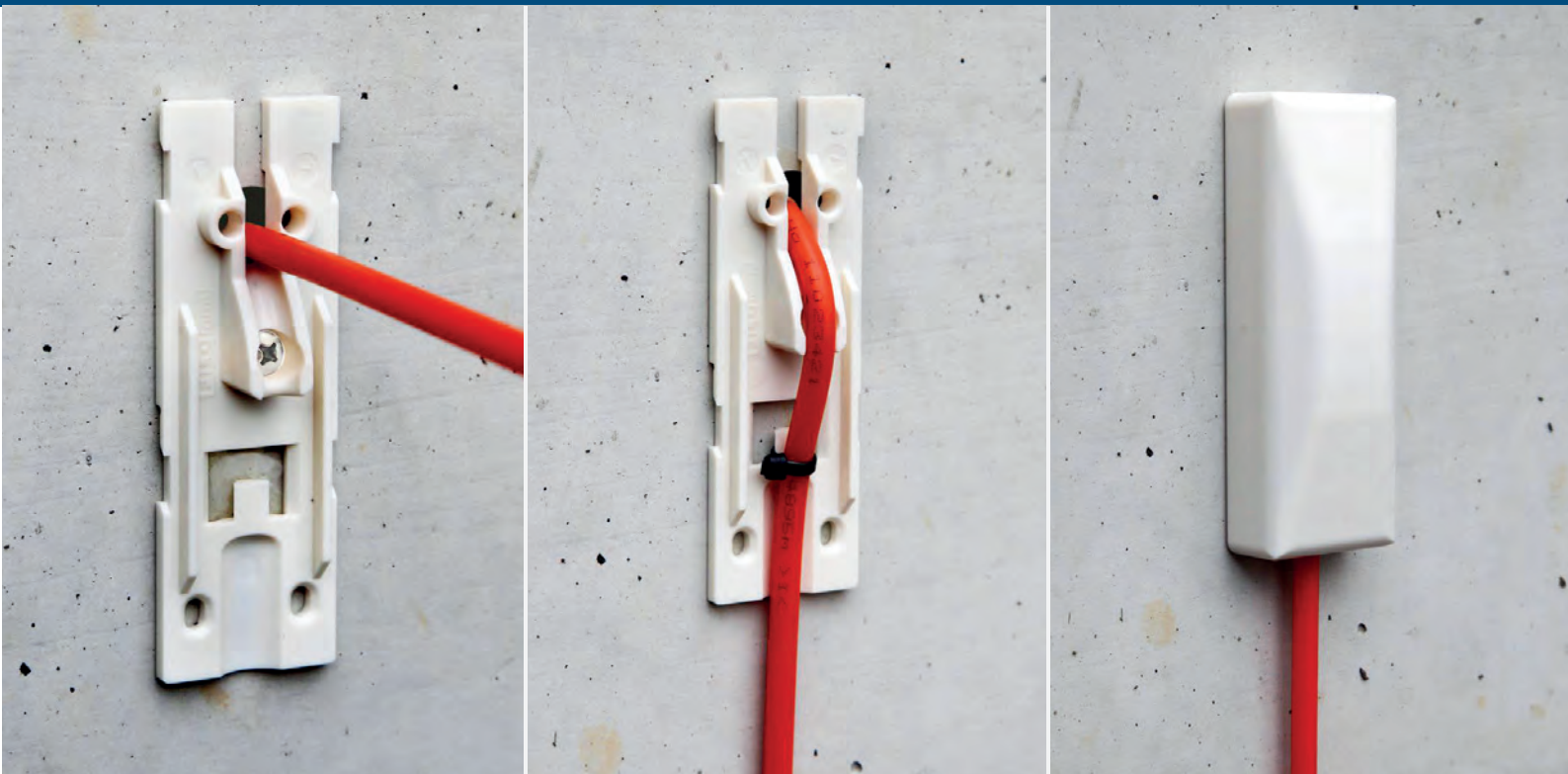
Filoform's Transition seals are suitable for making a transition to different sized tubes, or to a flex-tube.

The flexibility of this product enables it to create endless possibilities. Depending on the configuration, space is created in a larger duct which contains room to create a connection between subducts.

Both ends are sealed by the divisible duct sealing set that contains a custom made rubber that fits your requirements.

The advantage of this solution is that you can connect existing duct networks with a duct network of other dimensions, or create a connection with a flex-tube for a cabinet entry.

[For enquiries contact our sales department.](#)



FttH entry 90°

Entry cover with a 40 mm 90° bend radius to allow safe and secure bending of micro ducts / cables and blowing of the fibre after installation. It can be used with micro duct / cable sizes up to 8 mm and includes space to accommodate a gas block connector.

The kit includes 25 entry covers and a cartridge Filoform MD+ sealant.

Fastening materials are not included.

FEATURES

- Micro duct / cable sizes up to 8 mm
- Suitable for retro fitting
- Screw mounted or optionally invisible mounted with the use of Filoform fixing anchor
- For bore holes Ø 10 mm up to 25 mm
- Break out cover to accommodate a 16 mm protective pipe in the cover

SPECIFICATIONS

- Material ABS flame retardant
- Colour: white, similar to RAL 9010
- Temperature range -20°C up to + 50°C
- Dimensions 140 x 40 x 28 mm

For enquiries contact our sales department.



Duct seal FttH

The Filoform duct seal FttH is designed for gas and watertight sealing of FttH building entries with micro ducts and cables up to Ø 10 mm.

The sealing cap can be applied to the wall by using the special anchoring pin. Using this method, it's not necessary to drill additional holes to secure the cap with screws.

A gas and watertight seal is created by using Filoform's 2K expanding resin. After injecting the resin it will expand and fully cure into a strong and durable seal. Any irregularities or damage to wall will be restored with the resin.

FEATURES

- Gas and watertight up to 1,0 bar
- Universal piercing membrane, for cables up to Ø 10 mm
- Expansion along the borehole and on the outer wall guarantees an excellent seal
- Quick installation in minutes, no special tools required
- No extensive core drilling necessary
- Suitable for sealing of drilled holes in the most common wall types with waterproofing according to DIN 18195 T4
- Also suitable for angled penetrations
- Complies with DIN 18332 underground cable laying works: cable and conduit entries into buildings are to be made watertight and gastight
- High mechanical strength, resists ground movement, shocks and vibrations
- Supplied as one complete kit for sealing of one house/building connection
- Over 30 years of practical experience, installed in many Telecom / FO network

For enquiries contact our sales department.



Divisible connectors

Filoform divisible connectors are suitable for gas and watertight sealing when using subducts, which contain a cable.

Our divisible sealing system enables you to install it easily onto existing installations. A gas and watertight seal is achieved by applying the locking keys onto the shells. This compresses the silicon insert and seals the subducts.

The connector is suitable and resistant against blowing in new cables.

The divisible connectors can also be used as a gas block connector. [Please contact our sales department for more information.](#)

FEATURES

- Gas and watertight up to 0,5 bar
- For connecting and repairing of damaged ducts
- Applicable for direct burying
- Suitable for retro fitting
- Easy installation
- Slim design
- Rubbers seals with color coding
- Other versions available upon request

[For enquiries contact our sales department.](#)

MD+ Sealant

MD+ is an elastic one-component sealant suitable for the gas and watertight sealing of cable entries. With the application of the MD+ sealant, you will protect valuables from damage which is caused by gas and water leaks. Gas and watertight according to NEN 2768.

Fill & Seal

Filoform Fill & Seal compound is a high quality, flexible and strong one-component product. The Filoform glueing and sealing compound is based on a hybrid MS-polymer. After application the compound cures with atmospheric moisture to form a durable, high-levelled elastomer.



End plugs

EPDM rubber end plugs for temporary sealing of micro ducts. Tapered to fit a variety of duct diameters. For use on ducts from 4 mm up to 20 mm. Providing optimal protection against ingress of water and sand. Compressible for better sealing of both smooth and ribbed inner wall of the duct.

End caps

Filoform sealing caps are used for sealing and protection of fibre optic ducts against water penetration and dust. Suitable for use on ducts of 4 mm up to 50 mm. Made of flexible vinyl. Providing optimal protection against water, oil, greases and acids.

