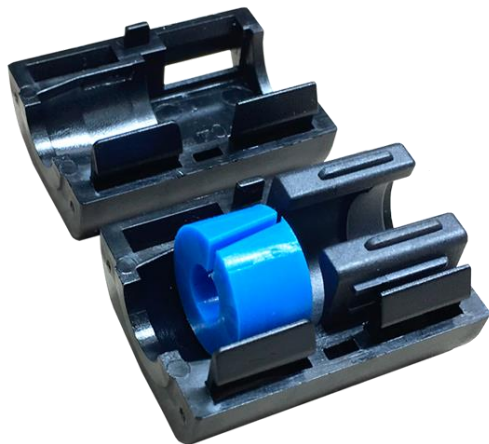


Installation Instruction

Nestor Optimus Divisible Seal



Application

Divisible cable seal for microducts. Used for sealing of the end of a microduct route. Prevents moisture, water and gas getting inside the microduct.

Installation Instruction

We recommend the installer to read and follow all the instructions, precautions and warnings contained in this document before using the products in pressurized systems. Unfollowing all instructions, precautions and warnings may result in injuries or property damage. Nestor Cables Ltd. disclaims any responsibility in the case of damage caused by product misusing or incorrect installation.

Preparations

- Pay attention to the installation location of the divisible seal. The installation location must be selected so that the connector can be accessed after cable installation, like in cabinets or termination boxes. Therefore, the divisible seal should never be used for direct buried installation.
- To avoid any possible problem during the cable blowing process, the divisible seal must be installed to the end of a microduct route after the cable blowing. Never install divisible seals beforehand.
- Before installation work, make sure that the microduct external size and the divisible seal size are same by checking the external diameter of the microduct. Also check that the installed cable diameter is compatible with diameter range of the divisible seal.

Sizes and applications for Nestor Optimus Divisible Seals

Divisible seal size according microduct outer diameter	Suitable cable outer diameter range	Package size (quantity)
7 mm	1,9 – 2,2 mm	25 pcs/carton
	2,3 – 2,5 mm	25 pcs/carton
10 mm	3,5 – 5,0 mm	25 pcs/carton
	3,5 – 5,0 mm	25 pcs/carton
14 mm	5,0 – 6,5 mm	25 pcs/carton
	6,5 – 8,0 mm	25 pcs/carton
	8,0 – 10,0 mm	25 pcs/carton
16 mm	8,0 – 10,0 mm	25 pcs/carton

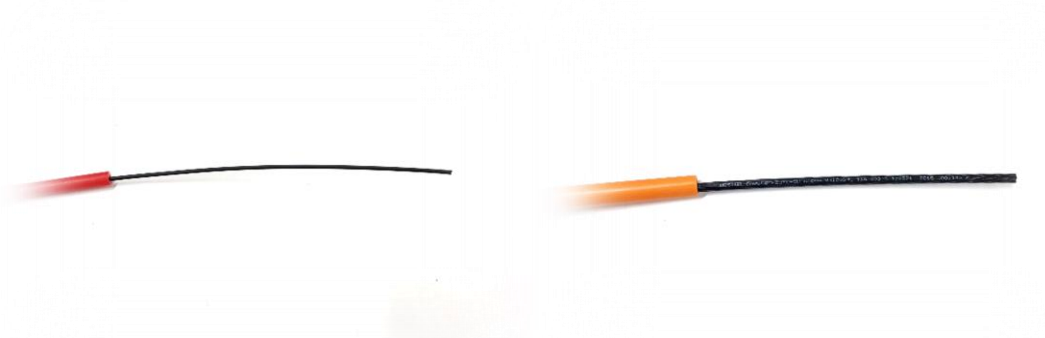


- The duct end must be round, and it must be cut to 90° angle by using the correct duct cutter. Never use saw, pliers or knife.
- When necessary, deburr and break off sharp edges of the microduct end before installation work using the correct tool.

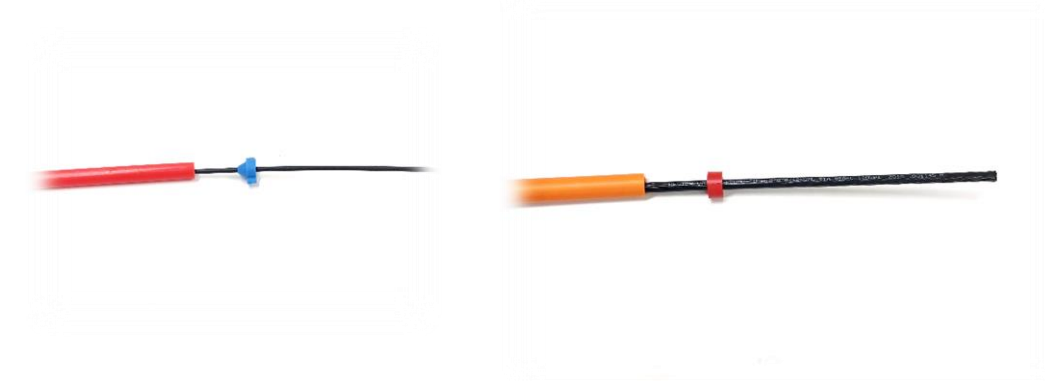
Installation



- Make sure that the microduct is clean and does not contain any scratches, cracks, cuts or deformities on its surface.



- Avoid putting any foreign material into the divisible seal or microduct before and during the installation.



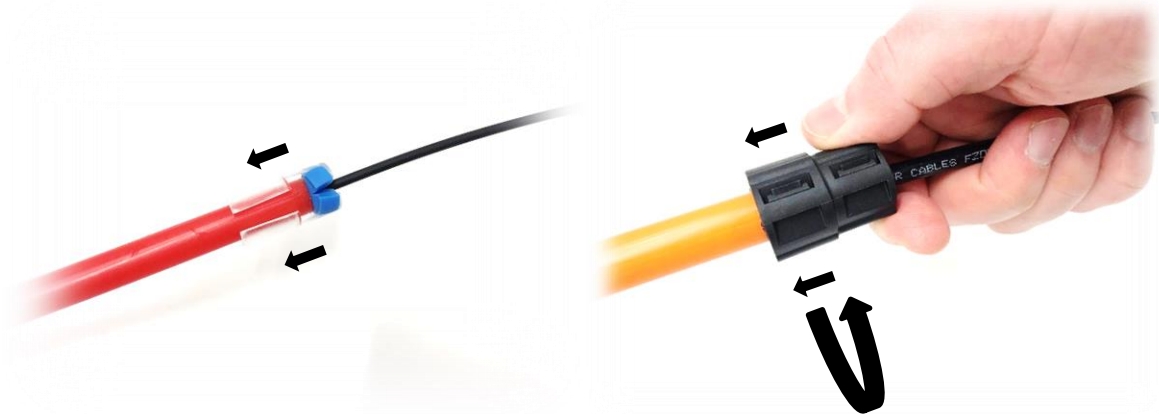
- Install the sealing part to the cable.
 - Divisible seals for 4-10mm microducts
 - Conical shape of the sealing part should point towards to the microduct.
 - Divisible seals for 10-25mm microducts
 - Sealing part can be installed both ways.



- Assemble the divisible seal by installing plastic frame on top of the sealing part.
 - Divisible seals for 4-10mm microducts
 - The open end of the plastic frame should point towards to the microduct.
 - Make sure that the guiding tip of the sealing part comes out of the opening in the side of the plastic frame.
 - Divisible seals for 10-25mm microducts
 - The open end of the plastic frame should point towards to the microduct.
 - Put the middle piece into the free section of the plastic frame.
 - Make sure that the sealing part is in the outer end of the plastic frame.
 - Insert the cover of the plastic frame on top of the assembly and press it until it clicks to correct position.
 - Make sure that locking pins in the outer frame are in correct position and all parts are put together firmly.



- Please note that all connection and disconnection operations must be performed manually without the use of any kind of tools to prevent damages.



- In order to seal the system, connect the divisible seal assembly to the end of the microduct.
 - Divisible seals for 4-10mm microducts
 - Push the divisible seal assembly firmly towards to the microduct.
 - Divisible seals for 10-25mm microducts
 - Push the divisible seal assembly firmly towards to the microduct and turn until hand-tight.



- Make sure that the divisible seal is connected properly by checking that the sealing part is slightly protruding out of the assembly.
- Do not pull the cable when the divisible seal is installed to the end of the microduct route to prevent possible damage to the sealing part.
- In order to disconnect the microduct from the divisible seal, make sure that the pressure has been completely eliminated from the system before any operation.
- To disconnect the microduct, pull the microduct outwards from the divisible seal assembly with slight rotation. This may need a moderate force.

Product reuse

- Nestor Optimus Divisible Seals can be reused after checking that they are not damaged and correctly working.
- Even if the divisible seal reuse is possible, it's only recommended in case of maintenance. The microduct network should never be built by reused divisible seals.

- In case of divisible seal reuse, the operator must verify reused components and carefully check the correct functioning of the whole system.
- In the case of reuse of a microduct, the part previously inserted into the divisible seal must be cut back and the whole line has to be re-verified.
- It is necessary to follow all the instructions as a precaution, in the same way as for the first-time installation.

Lubricants

- In case of use with lubricants, it is the end user or customer responsibility to check the chemical compatibility of the fluid with the construction materials of the divisible seal.
- Please contact our technical department if you would like to receive more information regarding suggested lubricants.

Modifications

- Do not disassemble or modify the individual products as this may cause product malfunctions, leaks or failure.
- In any case the tampering, modification or dismantling of the products invalidates the guarantee.

Excessive forces

- Do not over-stress the products by rotation, twist, bending, shock, fatigue or other excessive forces. This may damage the fittings and cause malfunctions, leaks or failure.
- The performance limits of the connectors are detailed in the technical specifications and must be respected during the installation.
- Do not use the products where ambient temperature and/or fluid temperature and pressure may exceed the limits indicated in our technical specifications.

Additional notices

Nestor Cables Ltd. reserves the right to modify the products from time to time when required by quality improvements and by market requirements. The actual product may differ from the pictures and drawings shown in the catalogues.

We recommend to only use Nestor Optimus accessories when building the microduct network. Using non-recommended products could invalidate the guarantee. The customer is responsible for checking the performance of the products after the installation.

It is end user's responsibility to keep the correct traceability of the product. The production codes of the items are clearly indicated on the packaging. In the case of a claim, the correct production code must be communicated to Nestor Cables Ltd. The failure in communicating the production code may invalidate the guarantee.