

Finnish developer & manufacturer of fibre optic solutions

Nestor Cables supports you in building better connections for the world. We manufacture cables, microducts and connectivity accessories for fibre optic networks.



Fibre optic cables



Connectivity accessories



Microducts and bundles

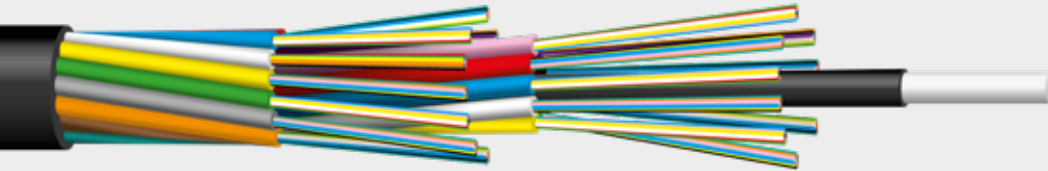
Complete
solutions
for fibre optic
networks



Nestor Optimus product family includes all the products needed in microduct networks: fibre optic cables, microducts and a wide range of accessories and tools.

Fibre optic cables

- Selection includes cables with 1 - 576 fibres.
- Tests on the field as well as neutral testing facilities have shown excellent blowing properties of our cables.
- Easy handling is taken into account in cable construction.
- The product range also includes cables with a flexible tube construction and cables with a fibre diameter of 200 µm.



Blowable micro cable

FZOMU-SD Micro
A-DQ(ZN)2Y Mini (VDE 0888)
GRHLDV Micro (S12)

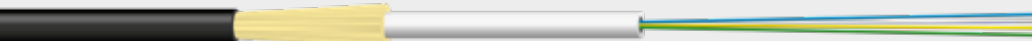
250 µm: Ø 4,9 – 12,9 mm,
200 µm: Ø 4,4 – 9,5 mm
12 – 576 fibres



Blowable micro cable 300N

FYORMU Micro
A-D(ZN)2Y Micro (VDE 0888)
GRGLDV Micro (S12)

Ø 3,5 – 3,8 mm
Drop cable
2 – 24 fibres



Blowable micro cable 200N

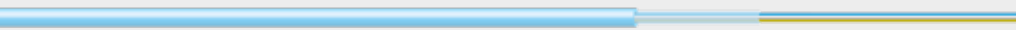
FYORMU Micro
A-D(ZN)2Y Micro (VDE 0888)
GRGLDV Micro (S12)

Ø 2,5 mm
Drop cable
2 – 12 fibres



Blowable micro cable 150N

Ø 1,8 – 2,1 mm
Drop cable
2 – 12 fibres



NBFU Nestor Blown Fibre Unit

Ø 1,2 – 1,6 mm
Microduct Blown Fibre Unit
2 – 12 fibres



Blowable Strong Fibre 1 F

Ø 0,9 mm
Drop cable
1 fibre

Cables made in Finland

The Association for Finnish Work has awarded the cables by Nestor Cables the Key flag symbol in recognition of a product made in Finland. The Key Flag is a sign of Finnish work. The symbol can be awarded to a product that has been made in Finland.

Single microducts & microduct bundles

- In the Nestor Optimus product family, there are microducts both for direct buried installation and for installation in protective ducts.
 - Direct buried installation is carried out by digging, microtrenching or ploughing.
 - Installation in protective or cable ducts can be carried out either by pushing, pulling or blowing.
- The microduct bundles may be provided with a tracer wire which allows the bundle to be located from the ground.
- Our product range covers single microducts as well as microduct bundles.
- Microducts can be colour-coded according to international standards.
- Microducts are made of HDPE.



Accessories and tools

The Nestor Optimus product family includes different types of accessories and tools to connect and seal the parts of the network, for example:

- Connectors
- End stops
- Reducers
- Gas blocks
- Cable seals
- Divisible seals
- Temporary end caps
- Duct cutters



Why choose microduct technology and Nestor Optimus?

Long lifecycle

Once installed, the microduct network expands easily to accommodate future needs. You can easily add new users to it and increase the capacity of the network. Therefore it is an ideal flexible solution for ever-changing and growing suburbs.

Lighter installation methods

Microduct technology enables the use of lighter installation methods (such as microtrenching), which can reduce construction costs. Such methods cause also less interference to traffic and people living in close proximity to the construction site.

Complete solution

Nestor Optimus is a complete solution to create microduct networks for fibre optic cables. Nestor Cables' years of expertise will help you find the right products to your project.

*Installation method: **DB** = direct buried, **DI** = direct install

● = These microducts and microduct bundles are available in our standard product range.

Microduct		Number of ducts							Recommended fibre optic cables for these microducts
Outer/inner diameter mm	Installation method*	1	2	3	4	7	12	24	
4/2,1	DI	●	●	●	●	●	●	●	Blowable Strong Fibre 1 F NBFU Nestor Blown Fibre Unit
5/3,5	DI	●	●	●	●	●	●	●	Blowable Strong Fibre 1 F NBFU Nestor Blown Fibre Unit
7/3,5	DB	●	●	●	●	●	●	●	Blowable micro cable 150N Blowable micro cable 200N
7/4	DB	●	●	●	●	●	●	●	Blowable micro cable 150N Blowable micro cable 200N
8/6	DI	●	●	●	●	●	●	●	Blowable micro cable 300N
10/6	DB	●	●	●	●	●	●	●	
10/8	DI	●	●	●	●	●	●	●	Blowable micro cable 300N Blowable micro cable (12 – 96 fibres)
12/8	DB	●	●	●	●	●	●	●	
12/10	DI	●	●	●	●	●	●	●	Blowable micro cable (12 – 192 fibres)
14/10	DB	●	●	●	●	●			
16/12	DB	●	●	●	●	●			Blowable micro cable (12 – 576 fibres)
20/15	DB	●	●	●	●	●			
20/16	DB	●	●	●	●	●			Blowable micro cable (12 – 576 fibres)

The table above includes a part of the products that are currently in the Nestor Optimus product family. The range of microducts is listed on the left side of the table. The right side of the table lists suitable cables for each microduct. The delivery length of the microducts is usually 500-2000 metres, but customer-specific delivery lengths are also possible.



The table contains only a part of our microduct range. We can also manufacture other sizes, colors and configurations according to your needs. Please contact us to discuss more!

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Fibre optic cables

Our fibre optic cable range includes cables for various installation methods, such as direct buried, duct, microduct, indoor/outdoor, aerial and submarine installation.



Microducts & bundles

Our solution for microduct networks is Nestor Optimus. The Nestor Optimus product family includes not only microduct cables but also single microducts and microduct bundles.



NesCon connectivity products

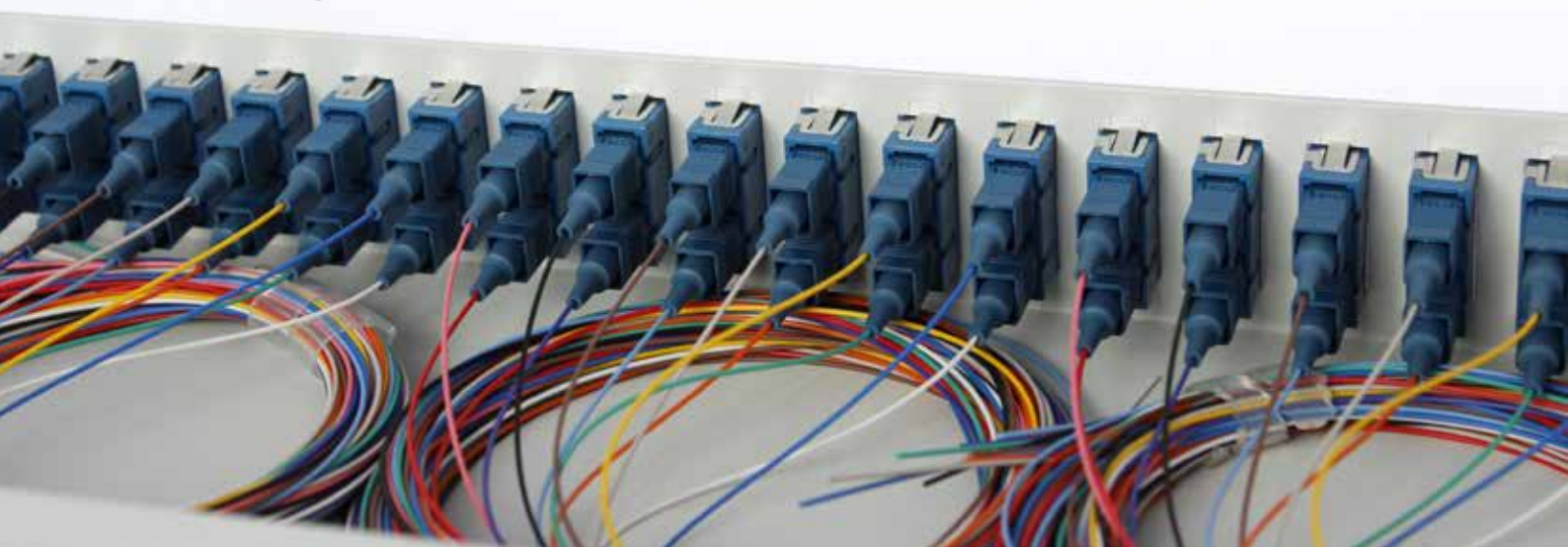
NesCon product range includes all small and large accessories for fibre optic networks, for example, joint closures, patch panels and termination boxes.



Solutions for fibre optic networks

In addition to cables and connectivity accessories, we can also combine our products to offer complete solutions for various network needs. For example, we provide our customers with complete solutions for fibre optic networks for cities, neighbourhoods, homes or premises.

Our products have also been used in fibre optic cable applications for electricity networks, wind mill power parks, mobile fibre optic networks, FTTA, intelligent transportation systems and data centres.





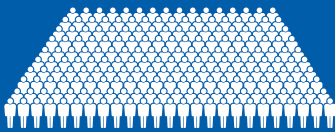
Founded in 2007 in Oulu, Finland

Nestor Cables was founded by cable technology professionals to preserve the Finnish tradition of producing high-quality cables.



Quality

Our products are developed and tested to meet the highest quality standards. We are committed to provide sustainable products and solutions and to operate in an environmentfriendly and ethical manner.



Over 100 professionals



Customers in over 50 countries



Reliable on-time deliveries



Our customers

- Telecom operators
- Network owners
- Electricity companies
- Building contractors
- Wholesaler / distributor
- Industrial companies

Capacity of our factory is 60 000 cable kilometers in a year

Production facilities

The factory in Oulu, Finland manufactures cables.

The factories in Keila and Tabasalu, Estonia manufacture and assemble connectivity accessories and microducts.



ISO9001
QUALITY

ISO14001
ENVIRONMENT

ISO45001
HEALTH AND SAFETY

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