



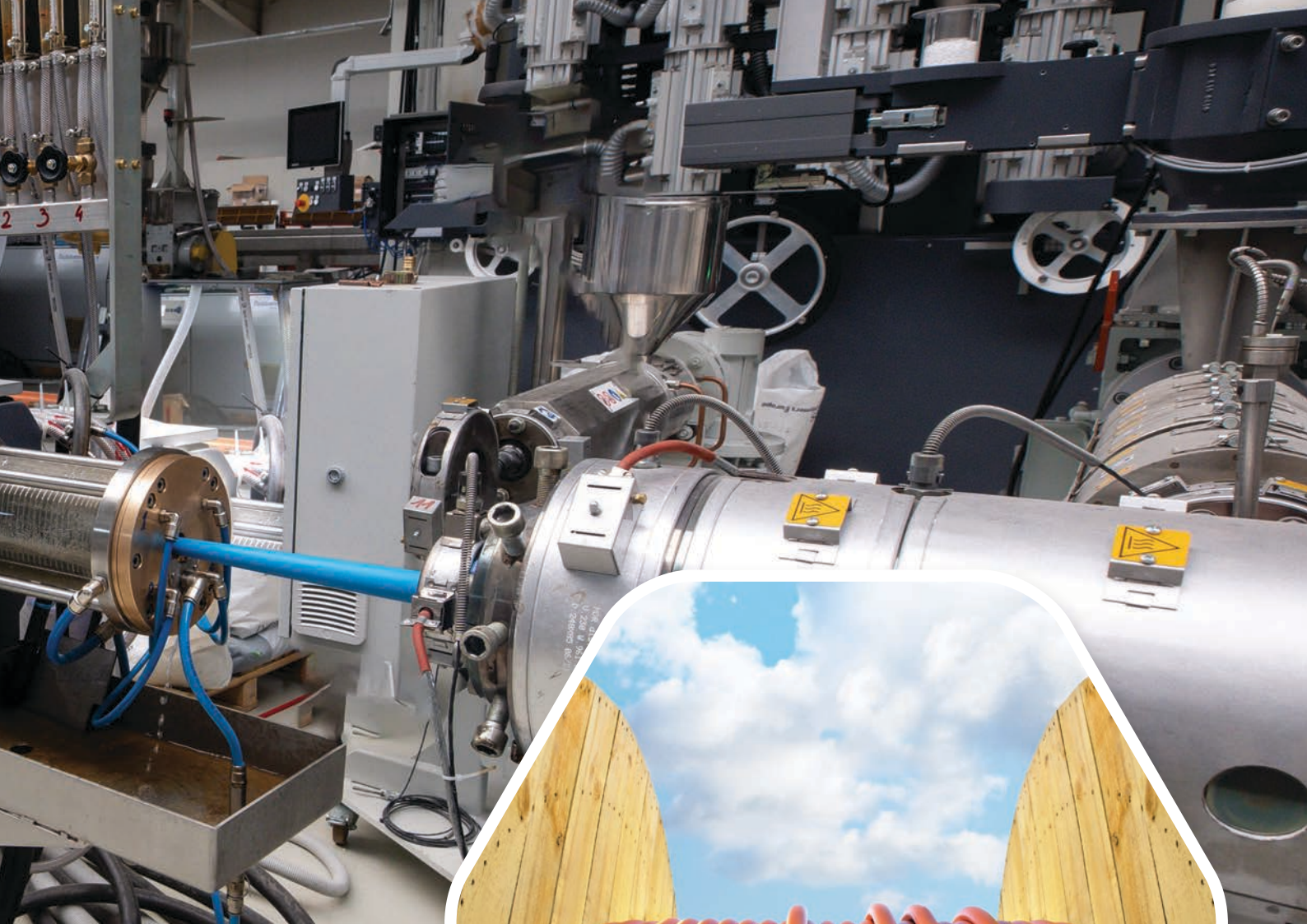
TeraDuct[®]
by TeraPlast

MICRODUCTS
FOR OPTICAL FIBER



ABOUT TERAPLAST GROUP

TeraPlast Group is an example of determination, and a benchmark for Romanian entrepreneurship. The strength of our Group lies in the complementarity of businesses in our portfolio, in the strong team of experts and in the ability to anticipate and take advantage of market opportunities.



NEW TERAPLAST LINE

TeraDuct Microducts are manufactured on state-of-the-art equipment. Both the production and the packaging line were designed to sustain high complexity projects.

TeraDuct ONE

Individual Microducts

The latest addition in TeraPlast's portfolio. Made by extrusion of high-density polyethylene (HDPE), in compliance with SR EN 60794-5-10.

TeraDuct ONE is available in two versions: one that allows the installation in a mono-tube or an existing protecting pipe (direct install) and a second intended for the direct burial in a layer of sand (direct buried).

The exterior is slick, while the interior presents a ribbed silicone layer, ensuring a minimum blowing resistance for the optical fiber.

The product comes in two versions: TeraDuct LINE and TeraDuct MIX.

CHARACTERISTICS

- Made of high-density polyethylene (HDPE);
- Dimensions range - External diameter: from 7 mm to 18 mm;
- Pressure resistance: min 15 bar;
- Impact resistant;
- Ribbed inner coating made of silicone;
- TeraDuct ONE meets the standards for pulling/blowing the optical fiber cables;
- Available in opaque colors according to the IEC 60304 standard;
- Extended range of colors (on request);
- Antistatic interior layer that can reduce electrostatic charge accumulated during the blowing of the optical fiber (upon request).

USES

- Telecommunication networks;
- FTTH (fiber to the home);
- Smart cities;
- Airports;
- 5G networks;
- Data centers.

OTHER DETAILS

- Identification marker;
- Counter marker;
- Direct install;
- Direct buried.



Made in EU



Dimensional range TeraDuct ONE OD/ID (mm)

7/4
10/8
12/8
12/10
14/10
14/12
16/12
18/14



Color versions



TeraDuct LINE

Microducts wrapped in a linear beam

This product features a flat, linear configuration. TeraDuct ONE microducts are connected and wrapped through a high-density polyethylene coating.

This shape has a slim profile, making it ideal for MicroTrenching use (narrow trench burial).

Presents a flexible design, allowing the direct burial, for diverse applications and long distances.

CHARACTERISTICS

- Made of high-density polyethylene (HDPE);
- Available configurations include 2 to 5 TeraDuct ONE microducts in a single beam;
- Pressure resistance: min 15 bar;
- Impact resistant;
- Ribbed inner coating made of silicone;
- TeraDuct LINE meets the standards for pulling/blowing the optical fiber cables;
- Easy access to the microducts inside the beam;
- Easy branching through connectors;
- Covered with an orange, UV-resistant coating;
- Antistatic interior layer that can reduce electrostatic charge accumulated during the blowing of the optical fiber (upon request).

USES

- Telecommunication networks;
- FTTH (fiber to the home);
- Smart cities;
- Airports;
- 5G networks;
- Data centers.

OTHER DETAILS

- Identification marker;
- Counter marker;
- Direct buried.



Made in EU

**Dimensional range TeraDuct ONE OD/ID (mm)**

7/4

12/8

14/10

16/12

18/14



TeraDuct MIX

Microducts wrapped in a polygonal beam

This product provides smooth handling of several TeraDuct ONE microducts, wrapped in an easily removable HDPE polyethylene coating. Access to each of the individual microducts is easier, facilitating the branching.

The shapes and configurations offered by TeraPlast for TeraDuct MIX allow a smooth installation through direct burial.

CHARACTERISTICS

- Made of high-density polyethylene (HDPE);
- Available in configurations from 3 to 12 TeraDuct ONE microducts in a polygonal beam TeraDuct MIX;
- Pressure resistance: min 15 bar;
- Impact resistant;
- Ribbed-silicone inner coating;
- TeraDuct MIX meets the standards for pulling/blowing the optical fiber cables;
- Easy access to the individual microducts;
- Easy branching through connectors;
- Covered with an orange, UV-resistant coating;
- Detection wire (on request);
- Antistatic interior layer that can reduce electrostatic charge accumulated during the blowing of the optical fiber (upon request).

USES

- Telecommunication networks;
- FTTH (fiber to the home);
- Smart cities;
- Airports;
- 5G networks;
- Data centers.

OTHER DETAILS

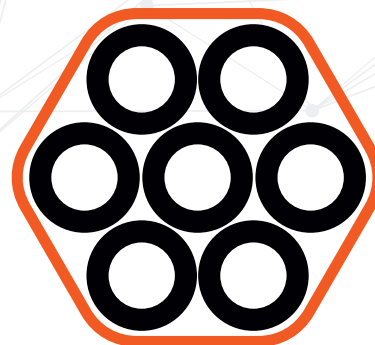
- Identification marker;
- Counter marker;
- Direct install;
- Direct buried.



Made in EU

**Dimensional range TeraDuct ONE OD/ID (mm)**

7/4
10/8
12/8
12/10
14/10
14/12
16/12



ACCESSORIES



**Direct
connectors**

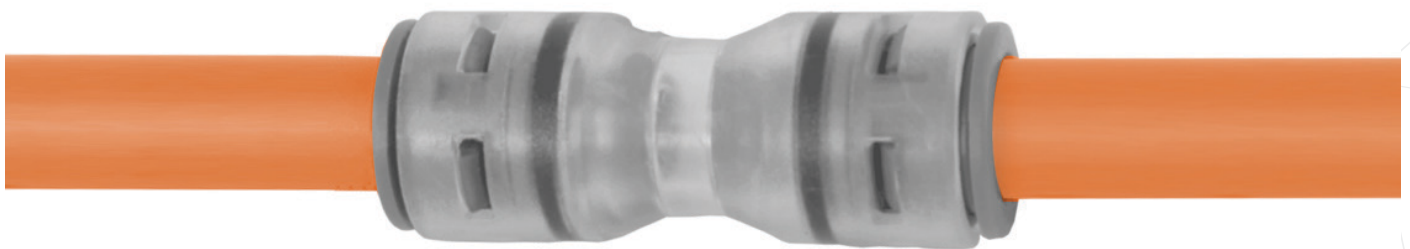


Reductions



**End
connectors**

- The direct connectors are used to connect two microducts with the same external diameter;
- The reductions are used to connect two microducts with different external diameters;
- The end connectors are used for an increased sealing at the end of the microduct, to prevent the entrance of impurities, as well as for safety reasons;
- The direct connectors are „push-in“ type, designed to provide the highest performance for the optical fiber networks (through blowing or pulling);
- The connector's case is manufactured out of transparent, impact resistant and durable polycarbonate;
- The clamping and sealing technology includes a stainless-steel teeth used for attaching the microduct, while the O-ring ensures a high sealing;
- The connectors meet the EN 50411-2-8:2009 standard;
- Dimensions: 10mm, 12mm, 14mm.



CABLE MANHOLES

Composite cable manholes for telecommunications or electrical networks.



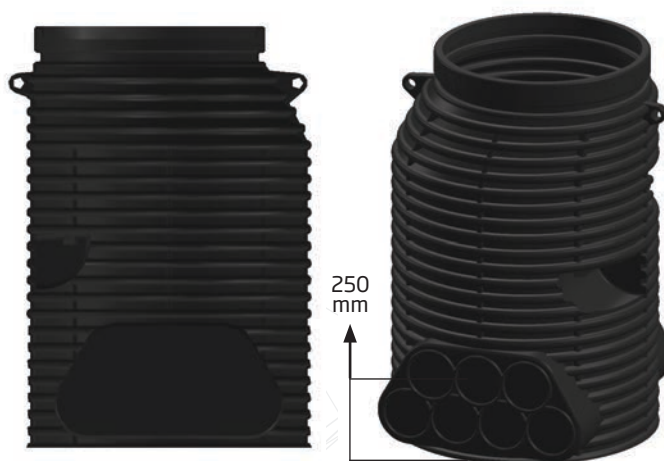
- Interior: 400 mm / 400 mm / 800 mm;
- Exterior: 460 mm / 460 mm / 899 mm;
- Weight: 47 kg;
- Composite material.



- Interior: 600 mm / 600 mm / 800 mm;
- Exterior: 660 mm / 660 mm / 899 mm;
- Weight: 89 kg;
- Composite material.



- Interior: 800 mm / 800 mm / 800 mm;
- Exterior: 880 mm / 880 mm / 899 mm;
- Weight: 120 kg;
- Composite material.



- Made of polyethylene by rotomoulding.

Product description	D [mm]	H [mm]	D1 [mm]	g [mm]	W [kg]
Cable manhole	800	750	630	7	23
Cable manhole	800	1000	630	7	30
Cable manhole	800	1250	630	7	36
Cable manhole	800	1500	630	7	43
Cable manhole	800	2000	630	7	56

TOOLS AND SUPPLIES



Cutter for microducts / bundle

Designed for cutting the microduct or a microducts bundle with a diameter up to 64 mm.



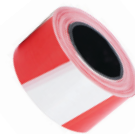
Identification marker

Provides the identification of the underground network by capturing specific radio frequencies, generated by a transmitter.



Snipping tool for microduct

Designed for marking and cutting the microduct coating without damaging the optical fiber placed inside.



Signal tape

Designed for signalling and delimitations.



Deburring tool

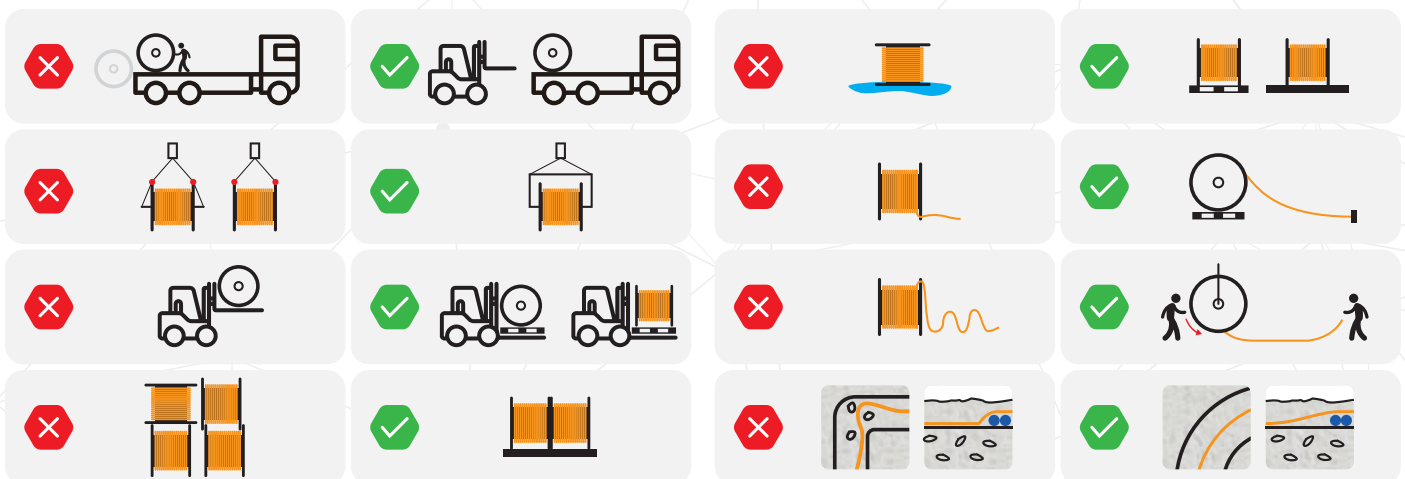
Designed for deburring the interior of the microduct. This tool provides a quick preparation of the microducts for blowing-in the optical fiber.



Cable blowing lubricant

Water based product. Lubricates the microduct prior the blowing-in of the optical fiber. Considerably reducing the friction and the electrostatic charge during the blowing.

HANDLING, STORAGE, AND INSTALLATION



Direct burial (DB)

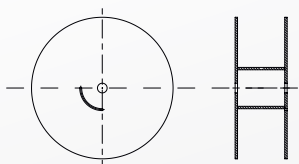
For applications implying the direct burial of the TeraDuct microducts or their wrapping in several configurations (TeraDuct MIX, TeraDuct LINE), it is recommended to use a microduct with a thicker wall. It will enhance the optimal filling ratios and helps a faster and smoother installation.

Direct install (DI)

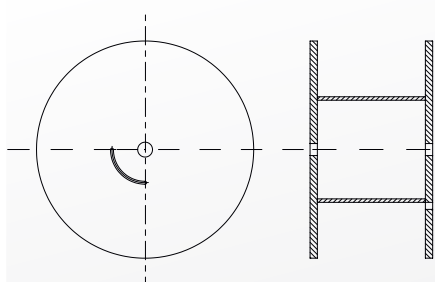
For applications that involve placing the TeraDuct ONE or TeraDuct MIX inside of an existing pipe, it is recommended the use of a thinner walled product where the protection is ensured by the existing pipe.

PACKAGING

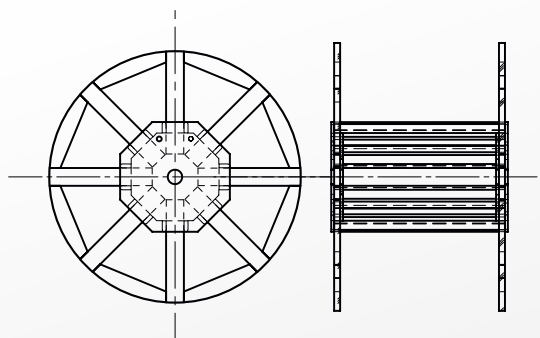
TeraDuct microducts produced by TeraPlast are packed and delivered on wooden drums.



Drum (L)

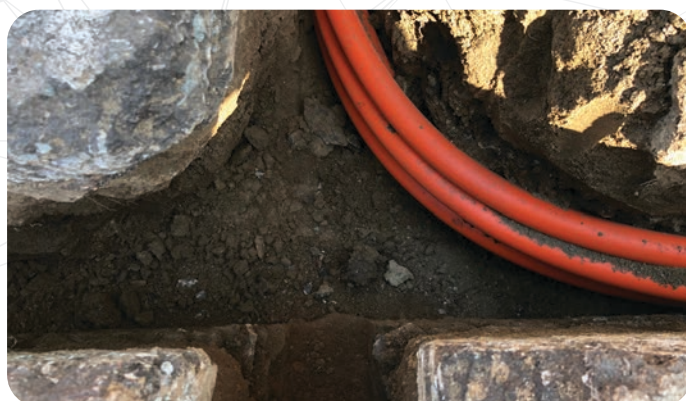


Drum (XL)



Drum (XXL)

TeraDuct solutions offered by TeraPlast have many advantages. They provide quick installation, easy maintenance, and a superior performance for blowing-in the optical fiber.



NOTES





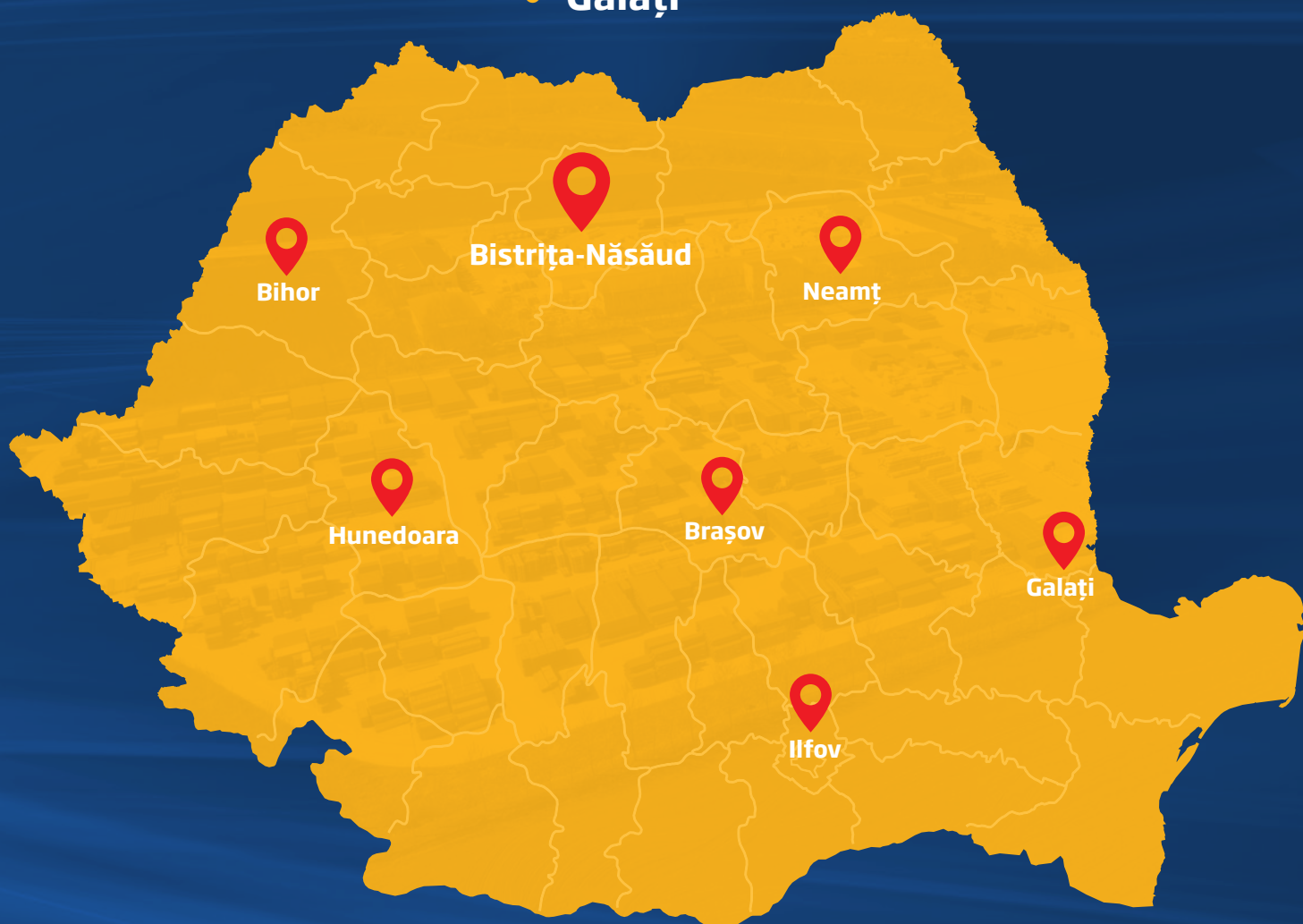
TeraDuct[®]
by TeraPlast

TERAPLAST HEADQUARTERS

- **Bistrița-Năsăud**

OFFICES

- **Ilfov**
- **Neamț**
- **Bihor**
- **Hunedoara**
- **Brașov**
- **Galați**



2023 Edition

Space
saving

Extending the optical
fiber network

Quick
installation

Reduced
costs

Smooth installation
and easy access



TeraDuct[®]
by TeraPlast

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