FIBRAIN ®

www.fibrain.pl

New, innovative system of winding and packaging fiber optic cables.

EasyReel

Ecology, improved and faster installation, easier storage and reduced transport costs.

EASY REEL

In order to meet the expectations of our clients who are seeking to increase the efficiency of the installation process, FIBRAIN, as the leader of innovative solutions, introduced a new packaging system for optical cables.

Fiber optic cables in standard winding systems such as eardrums and coils in case of careless unwinding process often undergo bending and tangling, which significantly hinders proper positioning and laying cables. This translates into installation time, which obviously results in costs incurred during installation.

The solution offered by FIBRAIN is the EasyReel system. This system uses a method of winding and packing cables patented by Reelex, which solves most of the problems typical for cables wound in standard coils or on standard drums. The whole idea is to wind the cable into a figure-eight coil on a specialized coiling machine. The solution that is often found in multi-pair copper cables was tested and implemented by FIBRAIN for fiber optic cables.

Why EasyReel?

Cardboard stackable box – eco-friendly, easy storage and transport

The innovative method of winding an optic cable into a figure - eight coil on a specialized coiling machine
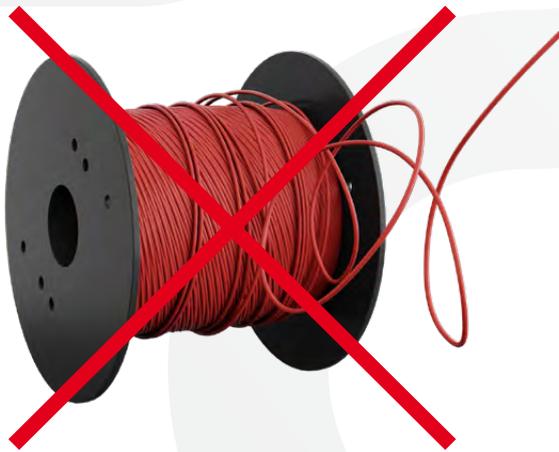
Handle for **easy carrying**

Payout tube **ensures smooth dispense**

1. Cross winding

During installation, the cable is unwound from the central part of the reel. Each layer of the coil is separated by a crossover, which eliminates knots and tangles. This solution allows you to pull the fiber optic cable practically at any speed, preventing entanglement with subsequent layers. We unwind the length we need, while the rest is in the right shape in the box and can be pulled out later. It should be

also noted that unlike linear-wound coils, which show continuous twist on payout, EasyReel packages eliminate twist – providing smooth, uninhibited payout performance.

While winding, the EasyReel wind imparts a half-twist in one direction, then an equal half twist in the opposite direction. **These twists do not occur when dispensing from the coil, effectively eliminating twist of the product.**
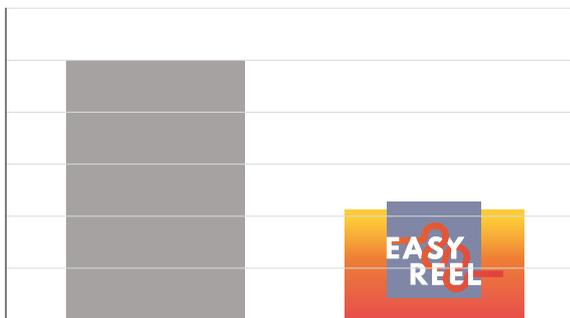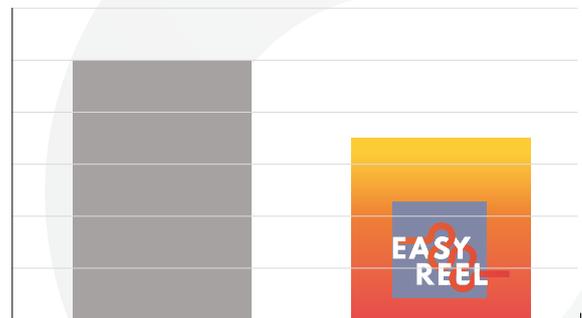

Standard cable

EasyReel

INSTALLATION TIME

Standard solution   EasyReel

EasyReel: Installation time of aerial cables
up to 56% faster*

*based on internal tests carred out on AERO-DR03 cable

Standard solution   EasyReel

EasyReel: Installation time of indoor cables
up to 30% faster

2. Payout Tube

The payout tube ensures that each twist in the coil is resolved inside the package prior to existing coil so it ensures smooth, twist-free payout - also at low temperatures.

The use of the appropriate eight-figure twist allows you to place a large-size tube that facilitates pulling the optical fiber with different degrees of stiffness.
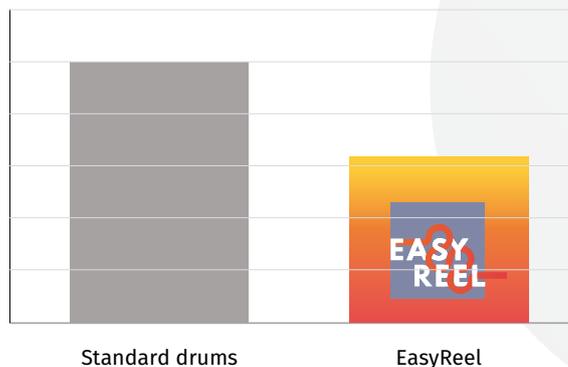

3. Ecology

FIBRAIN with the new packaging system responds to a problem of disposal and environmental protection. Most materials used in the EasyReel system are eco-friendly and can be recycled. The lack of a rotating element is significant in reducing the amount of waste compared to regular solutions.

In addition, the problem of storage of waste after using the product is reduced - up to 35% less volume of waste compared to cables wound on reels.

WASTE VOLUME

| Standard drums | EasyReel |

EasyReel: Waste volume **up to 35% less**

4. Efficient storage and lower transport costs

As you know, standard cable drums are often uncomfortable to carry and transport as well as they require additional equipment for a proper use. EasyReel does not require the use of special cable drum stands for unwinding the cable. In addition, our solution provides handles that facilitate the movement of cables and the lack of an internal drum significantly reduces weight. The round shape of the standard drums is also difficult to store. Due to the fact that EasyReel packaging is cubic, their laying and storage is much easier.

Easy to carry

The costs of cable storage and transport are very important issues for the investor.
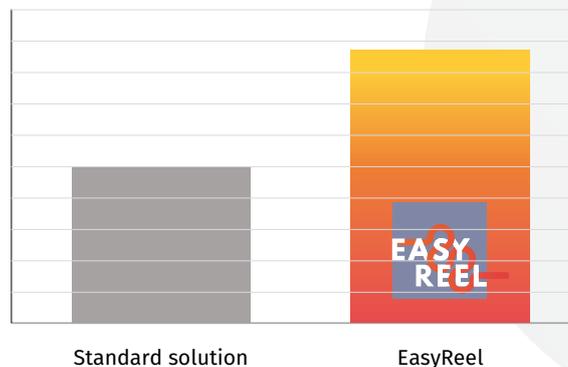Bearing this in mind, with standard dimensions of the

EasyReel packaging and cable drums we can fit up to 77% more cable on pallets, which, of course, translates into a reduction of transport costs.

up to
77%
more cables
on pallet

PACKING ON PALLETS

EasyReel: Packing on pallets **up to 77% more**

Standard solution	EasyReel

5. Types of optic cables in EasyReel

EasyReel is specifically designed for aerial and indoor cables:

VC-D20

VC-D30

VC-D40

VC-DCY

AERO-D03

6. Information to order

Series	Length	Box dimensions	Cable type
ER	LLL	**1** – small (27x27x27 cm)	VC-D20XXXX
		2 – large (27x35x35 cm)	VC-D30XXXX
			VC-D40XXXX
			VC-DCYXXXX
			AERO-DR03XXXX

7. Available configurations

Cable type	Cable length	Box dimensions	Product code
VC-D20	>500 m*	270x270x270 mm	ER-YYY-1-VC-D20XXXX
VC-D30	500 m	270x270x270 mm	ER-500-1-VC-D30XXXX
VC-D40	500 m	350x350x270 mm	ER-500-2-VC-D40XXXX
VC-DCY	500 m	270x270x270 mm	ER-500-1-VC-DCYXXXX
AERO-DR03	750 m	350x350x270 mm	ER-750-2-AERO-DR03XXXX

XXXX - cable coding depending on the adopted cable parameters (number of fibers, type of fiber, shell color)

* during testing – the exact length will be included in the DSH sheet

8. Summary

The innovative cable winding system, so often used in case of copper network systems, thanks to research and optimization carried out by FIBRAIN, could be successfully used in the field of optical fiber networks. This solution provides increased installation speed, more efficient use of storage space as well as a greater degree of packing during transport. This translates directly into saving time and costs, which will be appreciated by EasyReel users.