Company Introduction



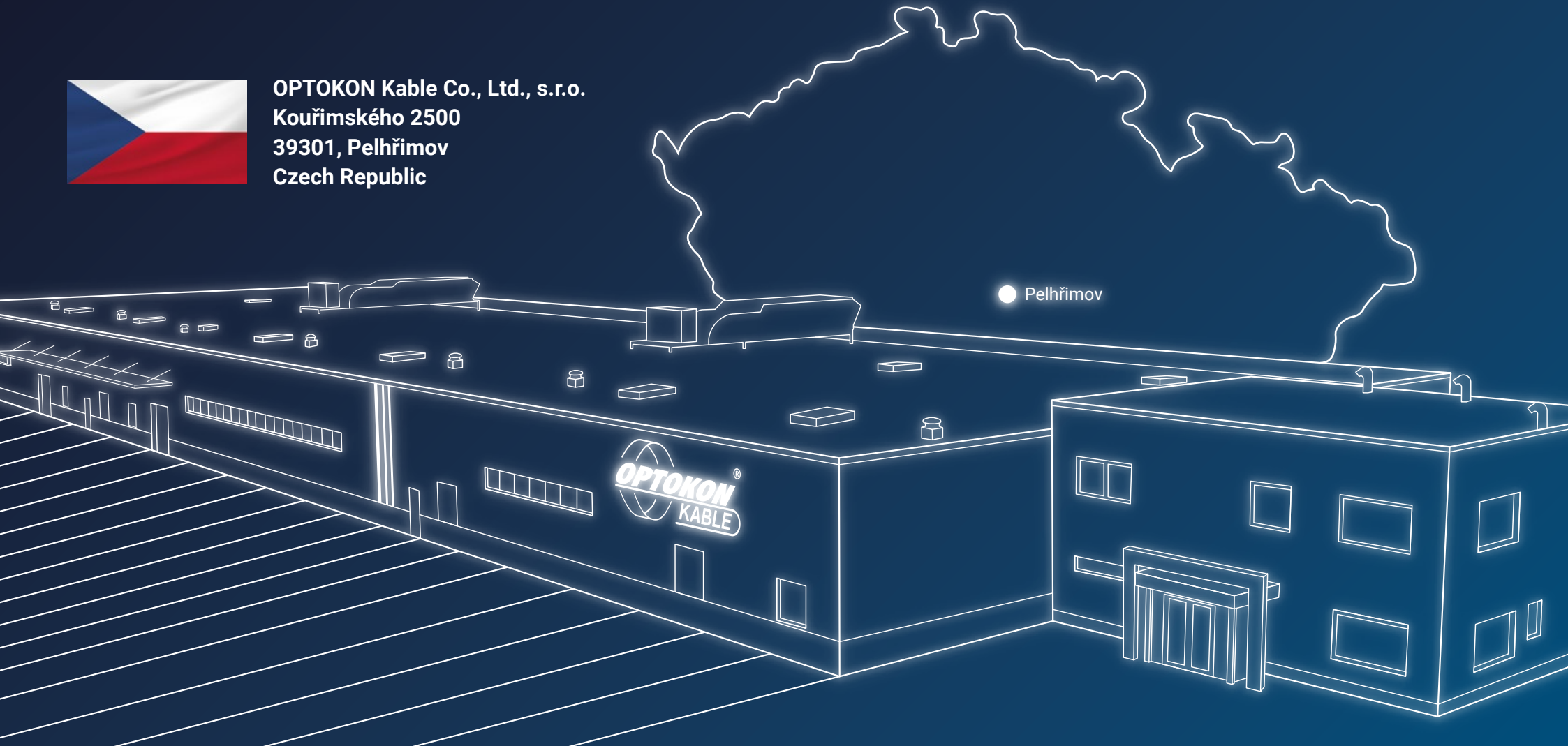

Connecting the world
through high-end fiber optic and hybrid cables.

OPTOKON® KABLE

Introduction

OPTOKON Kable Co., Ltd., s.r.o. is a manufacturer and supplier of high-quality standard and flame retardant optical fiber and copper cables for use in projects of all sizes and different technical solutions. The main production plant is located in the center of Europe - in the Czech Republic. The plant is exclusively equipped with the latest technologies that meet the strictest criteria, in terms of the impact on the quality assurance of final products and the environment. All production processes and operations are conducted under close scrutiny, which together with a team of experienced professionals, ensures compliance with all the attributes required for the success of the whole product range on the European and global markets. For these reasons, certification of internal processes that ensure high-quality standards. OPTOKON Kable company is one of the production companies belonging to OPTOKON GROUP.

OPTOKON Kable Co., Ltd., s.r.o.
Kouřimského 2500
39301, Pelhřimov
Czech Republic



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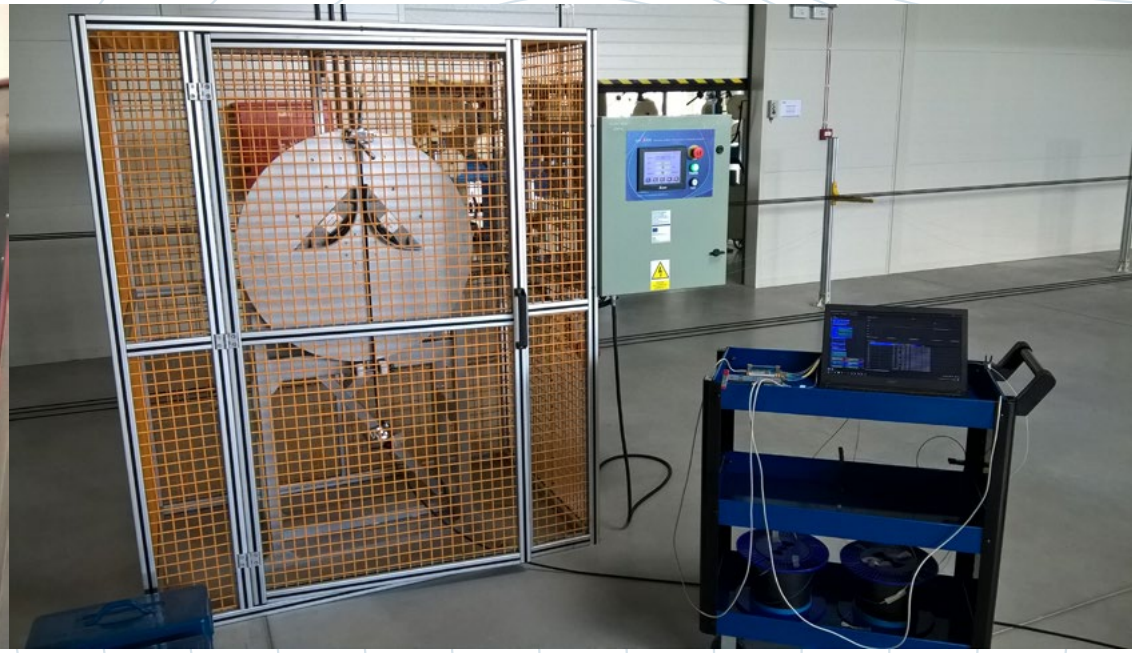
Production

Our production facility is equipped with state-of-the-art technology, ensuring each product meets the highest standards for quality and environmental responsibility. Every stage of production is closely monitored and managed by our skilled team, guaranteeing excellence in every component we create, while OPTOKON Kable's dedication to certified, high-quality production continues to support our success in both European and global markets.

Quality

To ensure the highest quality, each cable undergoes a series of rigorous tests including bend, crush, and impact assessments. Our comprehensive testing processes such as freezing, flexing, and torsion tests guarantee that every cable can withstand demanding conditions, while evaluations of abrasion and environmental resilience ensure reliable performance in any application. These exhaustive protocols are designed to simulate the harshest real-world environments, confirming that our products maintain structural integrity and signal stability under extreme physical and mechanical stress.








Accredited Testing Division

Mechanical tests according to the IEC 60794-1-21:

- E1 – Tensile performance
- E2 – Abrasion test
- E3 – Crash test (press resistence test)
- E4 – Impact test
- E6 – Repeat bending test
- E7 - Torsion test
- E8 – Flexing test
- E10 – King test
- E11 – Bend test
- F1, F9, F15 – Climatic tests according to the IEC 60794-1-22

ACCREDITED TESTING LABORATORY
OPTOKON ®
No. 1755

EA MLA Signatory
Český institut pro akreditaci, o.p.s.
Olšanská 54/3, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products, as amended

CERTIFICATE OF ACCREDITATION

No. 563/2023

OPTOKON, a.s.
with registered office Červený Kříž 250, 586 01 Jihlava,
Company Registration No. 13692283

for the Testing Laboratory No. 1755
Testing Laboratory OPTOKON

Scope of accreditation:

Testing of optical cables and fibres to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of Accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the Conformity Assessment Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited Conformity Assessment Body.

The Certificate of Accreditation is valid until: 26. 10. 2028

Prague: 26. 10. 2023

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

Certificates

Our European cable production facility is ISO 9001:2008 certified and each production cable length is subject to quality control.

OPTOKON Kable production complies with the following international standards:.

- IEC & EU CENELEC standards
- Bellcore GR -20, Telcories & TIA standards
- The latest ITU-T CCITT recommendations

ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV

CERTIFICATE

for the Environmental Management System in accordance with

EN ISO 14001:2015

to the Firm

OPTOKON Kable Co., Ltd., s.r.o.

Kouřimského 2500, 393 01 Pelhřimov, Czech Republic

Manufacture of optical and metallic cables

Certificate granted: 26.10.2020

Prague

Mgr. Miroslav Sedláček
Deputy Head of Certification Body

Stamp

021775-02

ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV

CERTIFICATE

for the Quality Management System in accordance with

EN ISO 9001:2015

to the Firm

OPTOKON Kable Co., Ltd., s.r.o.

Kouřimského 2500, 393 01 Pelhřimov, Czech Republic

Manufacture of optical and metallic cables

Certificate granted: 26.10.2020

Prague

Mgr. Miroslav Sedláček
Head of Certification Body

021775-01

Mission and Vision

OPTOKON is dedicated to sustainable growth and technological innovation, strategically expanding our production capacity to meet the increasing global demand for high-performance connectivity. By enhancing our storage infrastructure and implementing rigorous security protocols, we ensure our operational foundation remains as resilient as the products we manufacture. Our commitment extends to driving advancements in next-generation fiber optics, ensuring our research and development teams have the resources to pioneer solutions that will shape the future of telecommunications.

Our vision is to cultivate a world-class environment that serves as a hub for excellence, empowering our team to reach their full potential within a culture of collaboration. By fostering an atmosphere that supports both professional development and technical breakthroughs, we create an ecosystem prepared for tomorrow's challenges. Through this holistic approach to expansion, OPTOKON continues to deliver exceptional value and reliability to our customers, reinforcing our position as a trusted leader in the international fiber optics industry.

Product Categories

1. Optical Fibres

Optical fibers are extremely thin glass or plastic strands that transmit data using light instead of electrical signals. This allows for very high bandwidth, low attenuation over long distances, and excellent immunity to electromagnetic interference ideal for demanding data, industrial and defense applications.

Single-Mode Optical Fibers (SMF)

- G.652.D
- G.657.A&B
- G.657.A 200 µm
- G.655

Multimode Optical Fibers (MMF)

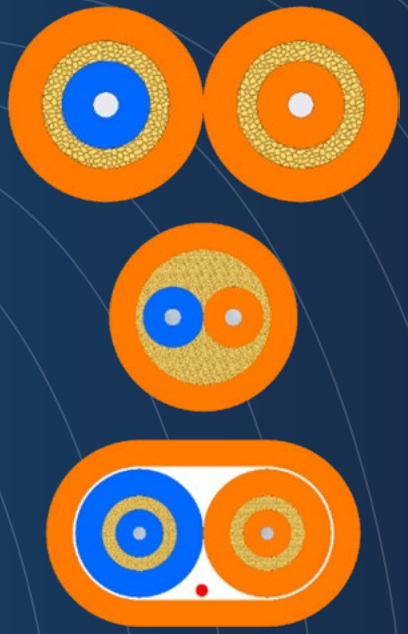
- OM1 (core diameter 62.5 µm)
- OM2 (core diameter 50 µm)
- OM3 (core diameter 50 µm)
- OM4 (core diameter 50 µm)
- OM5 (core diameter 50 µm)

2. Indoor Cables

These cables are designed exclusively for use in buildings and feature a cable jacket made from flame-retardant, non-halogen materials. Please note that these cables may not be water-resistant.

Simplex Cables
(1.6 – 2.8 mm)

Interconnect Cables



Breakout Cables
(2 - 36 Fibres)

3. Universal Cables

Universal cables are optical cables suitable for various environments, including indoor and outdoor installations. Their versatile design resists moisture, temperature changes, and mechanical stress, ensuring reliable performance across diverse applications.

Loose Tube Cables

Distribution Cables

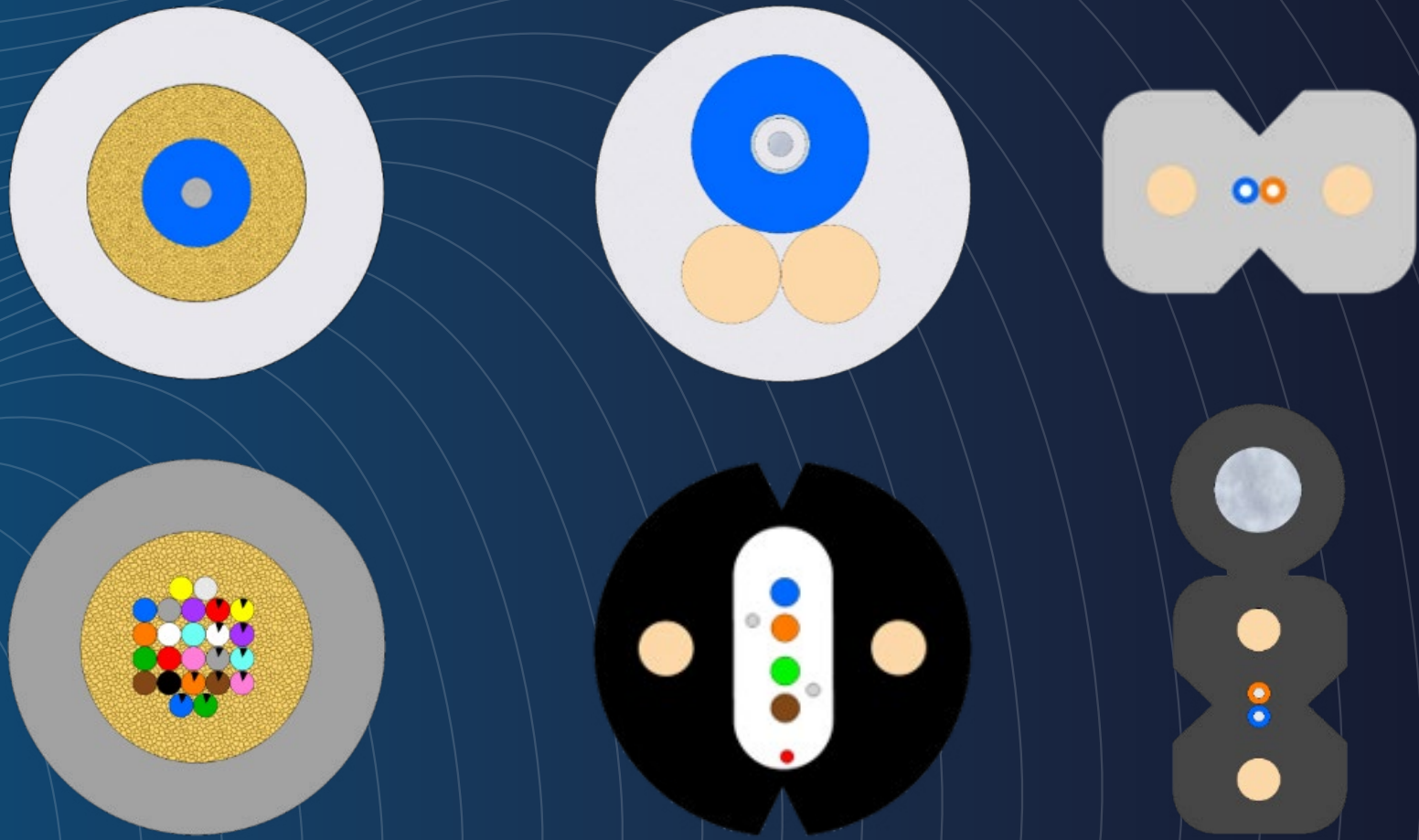
Breakout Cables

Product Categories

4. FTTX Drop Cables

- Various designs for 1 – 24 fibres
- Indoor or universal version
- Flat cross-section
- Round cross-section
- Aerial construction

Cables of this type are designed to connect end users to the distribution point.



5. Microduct Cables

Unitube Micro Cables

- 2 – 24 fibres
- Diameter 1.6 – 2.4 mm
- 200 µm or 250 µm fibres
- PBT or HDPE jacket

Multitube Micro Cables

- 12 – 432 fibres
- 12 or 24 fibres in tube
- 200 µm or 250 µm fibres
- HDPE or Polyamide jacket

Cables are designed for installation by being blown into microtubes.

Product Categories

6. Duct Cables

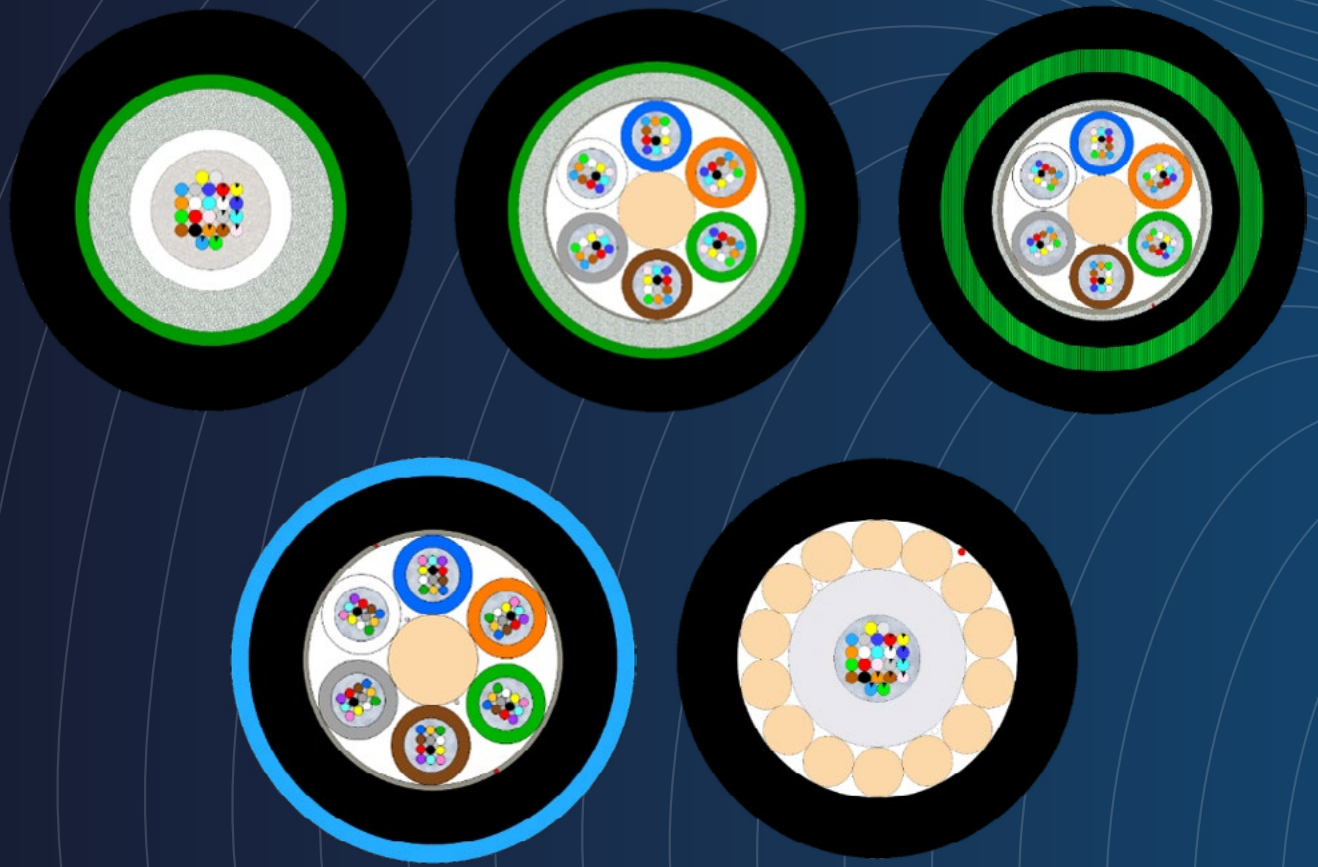
Cables with a higher level of protection for installing into ducts or on grids.

Devided into two subcategories of **Multitube Duct Cables** and **Unitube Duct Cables**

7. Direct Buried Cables

- Single or double jacket
- Outdoor or universal version
- Steel tape armouring
- Polyamide (Nylon) armouring – dielectric
- FRP Armouring – dielectric

Resistant to physical damage, these cables are designed for environments where mechanical stress may be a concern. Armoring can be implemented in various ways.

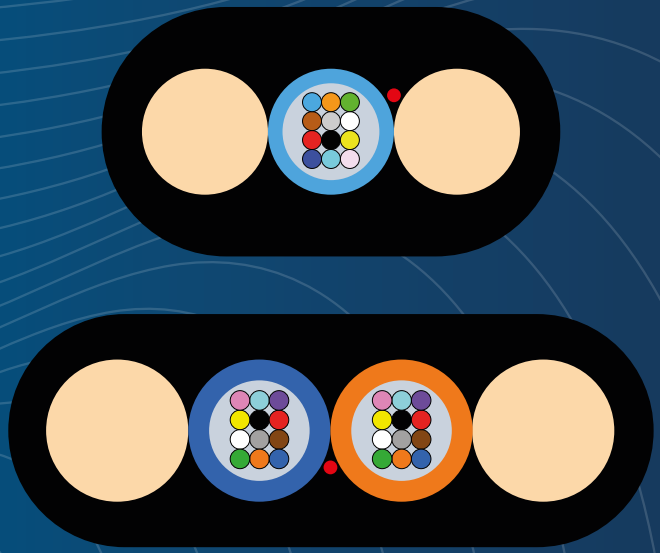


Product Categories

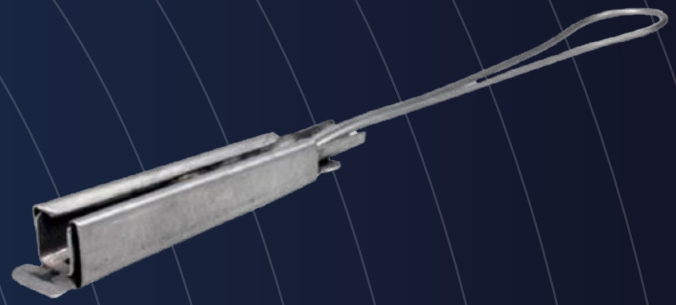
8. Aerial Cables

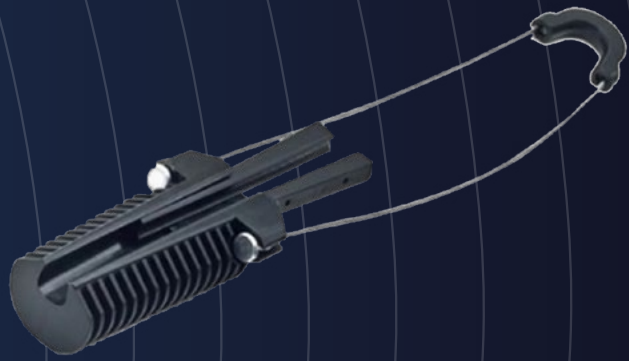
- 2 – 144 fibres
- Tracking resistant jacket is possible
- Flat or round cross-section

Aerial cables are typically used for outdoor installation on poles.



Cable Clamps





9. Hybrid Cables

- Tight buffered fibre or loose tube construction
- Solid copper wire or Stranded copper wire
- Different diameter conductors in one cable
- Standard up to 48 Fibres and 4 copper conductors

Cables of this type combine copper conductors and optical fibers in a single unit, enabling both power and data transmission over long distances.

8000 N tensile strength
Also functional as a tow rope

Product Categories

10. Military & Tactical Cables

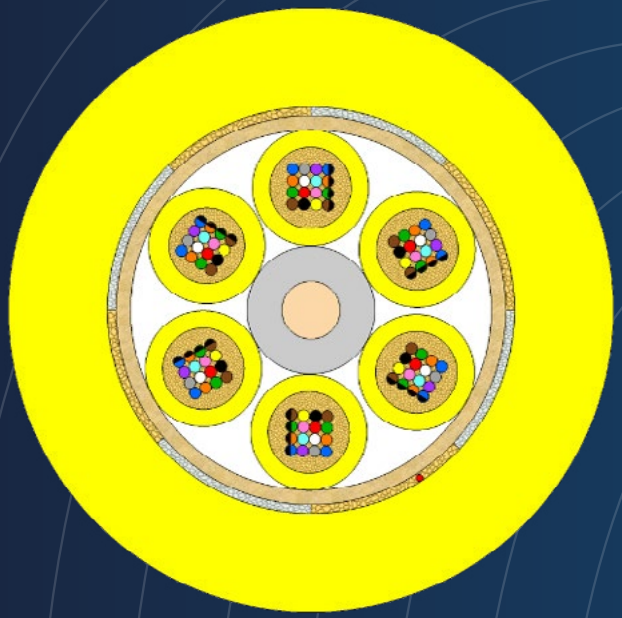
- Up to 12 fibres
- For temporary deployment
- For harsh environment
- High flexibility
- Operation in a wide temperature range
- Optional chemical protection against rodents and termites

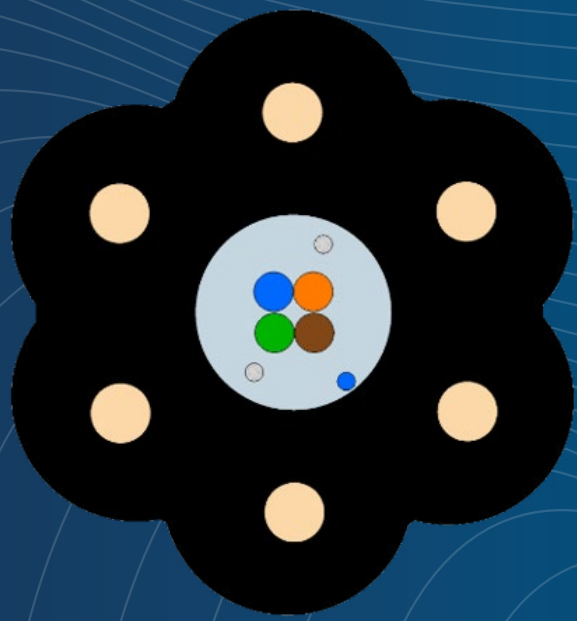
This category of cables is specifically engineered for extreme durability and is intended for use in harsh environments.

Product Categories

11. Special Cables

- Universal or outdoor design
- Unitube construction 2 – 24 fibres
- Multitube construction 12 – 864 fibres
- Up to 24 fibres in tube
- Dry or gel filled cable core (MLT)
- Single or double jacket





Commencement of construction of a new optical cable manufacturing plant

2015

Final inspection of the construction phase and commencement of installation for the first phase of production technology

2016

Commencement of production for the first types of optical cables with tight secondary protection

2016

Installation of production equipment for optical fiber coloring and the manufacturing of multi--fiber acrylate units

2017

Installation of two additional production lines and expansion into loose tube optical cables.

2018

Installation of a cable testing laboratory and launch of the Optical Cable R&D Center

2019

Acquisition of technology for permanent relief cable printing

2022

Installation of a state-of-the-art system for in-process and final testing of optical cable parameters.

2025

Installation of a new production line to further expand the cable portfolio.

2026

02/2026

OPTOKON®
KABLE

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