

The logo for 'ekabel' is displayed in a white, lowercase, sans-serif font in the top-left corner of the image. The background is a long-exposure photograph of a city street at night, showing light trails from cars and illuminated buildings. A network diagram of white nodes and arcs is overlaid on the scene.

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FIBER OPTICS

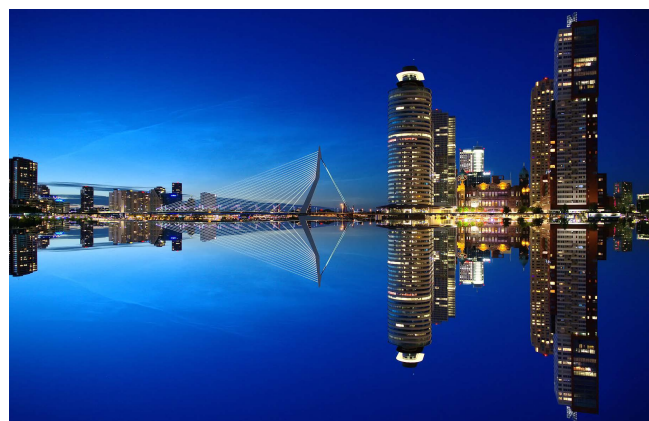
Fiber Optic Network Solutions

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FIBER OPTICS

Fiber Optic Network Solutions

The future of **ITS (Intelligent Transport System)** and smart cities requires communication between toll stations, traffic light systems, track monitoring, tunnels, bridges and autonomous vehicles. For all those elements, we need to extract information on real time to prevent accidents, generate alarms and control traffic in emergency situations. Those systems require robust platforms based on fiber optic solutions.



In **energy transmission and the renewable energy generation industry**, the operations may be monitored through fiber optic solutions. It can be used on solar, wind farms and also in smart grids.



In the **mining industry**, fiber optic solutions allow not only communications and control of processes, but also conveyor belt monitoring in real time.



The Oil and Gas industry needs special fiber optic cables, with fire resistant properties and also with aromatic and aliphatic barriers that allow communication without failures. These cables and solutions are also applied to monitoring oil and gas ducts; with this technology, operators can prevent failures and generate alarms like intrusions, leaks and geotechnical movements.



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FIBER OPTICS

Fiber Optic Network Solutions

Multimode Fiber Optic Cables for LAN Solutions, 02 to 36 fibers per cable.

Multimode Fiber Optic Cables CAT OM1, OM2, OM3, OM4, OM5
Adjusted to the need for transmission of the network.

Indoor multimode fiber optic cables

Tight buffer cable for indoor installation.
Single or double jacket and LSZH according
to international standards.



Outdoor multimode fiber optic cables

Loose tube cables for outdoor installation,
with metallic or dielectric armor for rodent
protection and hostile environments.



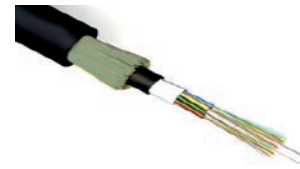
FIBER OPTICS

Fiber Optic Network Solutions

Singlemode Fiber Optic Cables, designs for long distance networks, 12 to 288 fibers per cable, transmission according to ITU-T standards (ITU-T G652D, ITU-TG655 and ITU-T G657).

1 Fiber Optic Cable for aerial installation

ADSS (all Dielectric Self Support) cable for aerial installation. Applied on poles, with HDPE jacket and dielectric armor for rodent protection.



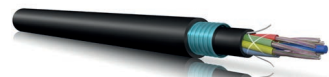
2 Fiber Optic Cable for direct burial installation

Cables with single or double armor (CSA or SWA) and double or triple jacket.



3 Fiber Optic Cable for installation in ducts

Cables with single armor, metallic or dielectric. Single or double jacket.



4 Fiber Optic Cable for installation on micro ducts

Fiber Optic micro-cable, with 50% external diameter vs standard cables. These cables offer more capacity.



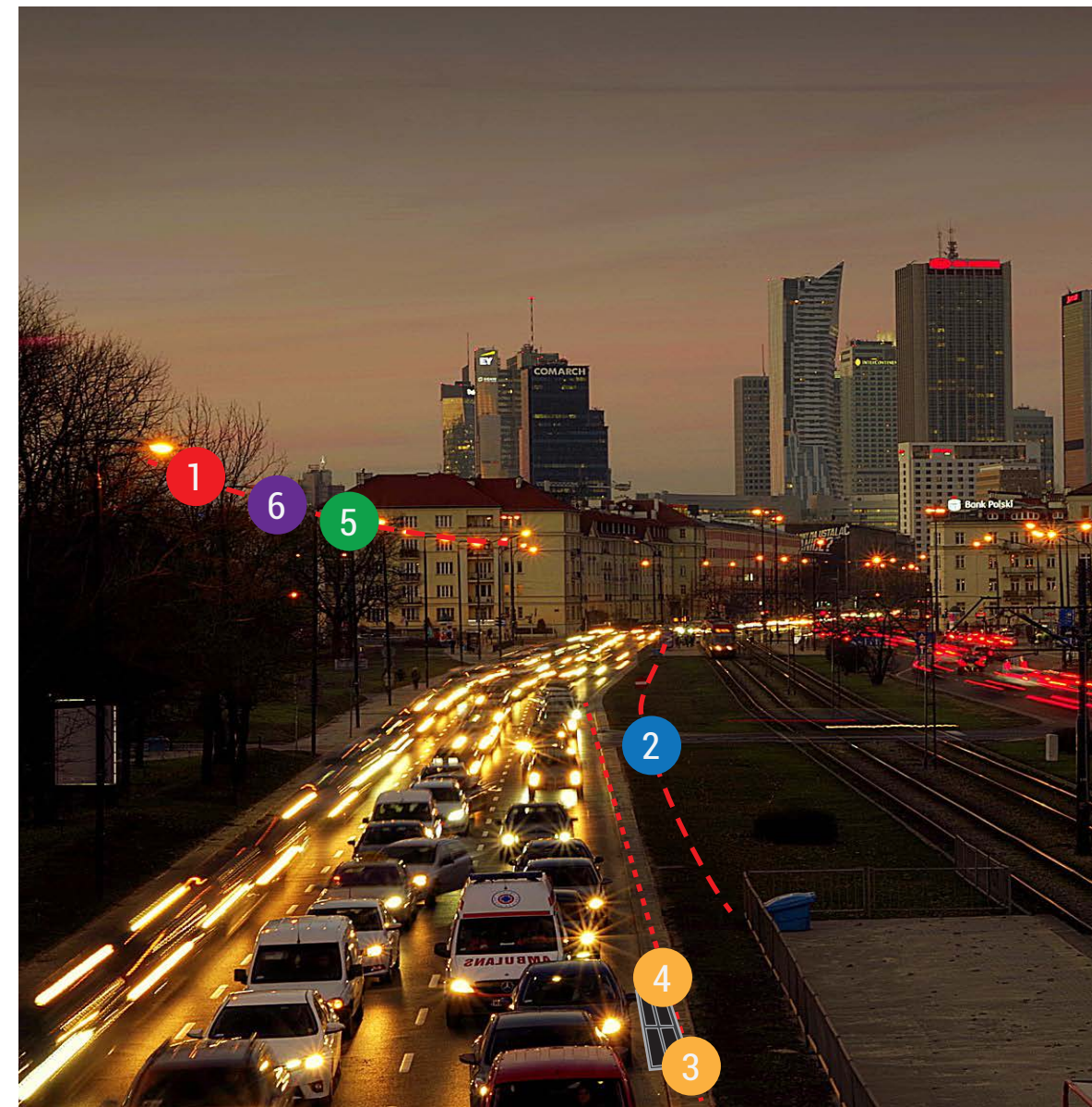
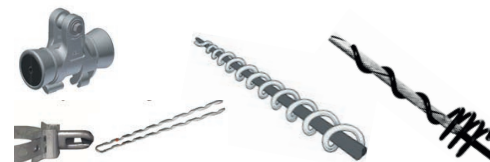
5 Outdoor Fiber Optic Splice Enclosure

Applied for aerial installation and also on concrete junction boxes (installation of ducts) .



6 Fiber Optic elements for aerial installation

ADSS and OPGW fiber dead-ends, suspension for ADSS, spiral vibration damper for ADSS/OPGW and corona coil for high voltage lines.



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FIBER OPTICS

Fiber Optic Network Solutions

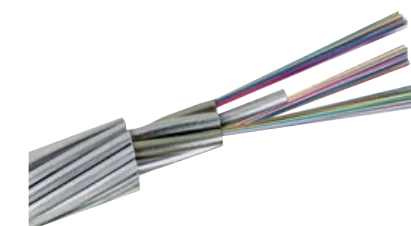
Cables for Installation on Tunnels

Fiber optic cables for tunnels and classified areas. Cables with fire resistant jacket or Low Smoke, Zero Halogen (LSZH). With flexible mechanical properties.



OPGW Cables

Optical ground wire cables. For installation on electrical towers.



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OPTIC ENCLOSURES AND TERMINAL BOXES SYSTEM

Fiber Optic Splice Enclosure For Outside / Inside Plants

Accessories for derivation, continuity or termination of Optical Passive Networks.

Optical Distribution Boxes

Implemented to match Fiber Optic outside Networks with Inside Networks. Ideally, to be installed in basements in buildings (industrial, commercial and residential buildings), malls and office centers. Installed on walls, concrete boxes or cabinets. Capacity up to 288 fibers.



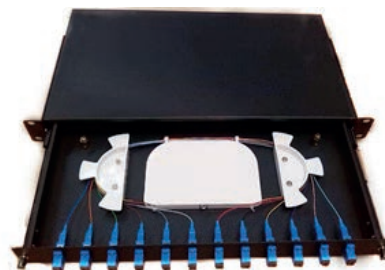
Pre-connected Fiber Optic Enclosure

Applied to FTTX networks for optical splitter installation. Capacity up to 24 optical ports. Can be installed on walls, poles or concrete boxes.



ODF for installation in racks (Optical Patch Panels)

Optical Distribution Frames to install on telecommunication racks (19"). Capacity from 12 up to 288 optical ports. Simplex or Multiplex panels and trays for pigtail installation. Capacity up to 6 fiber optic cables.



Optical Boxes

Applied for optical network termination on end user (access). Installation in walls or cabinet. Capacity up to 12 optical ports. Could be installed in offices, commercial or residential buildings.



ACCESSORIES

Connectivity Accessories

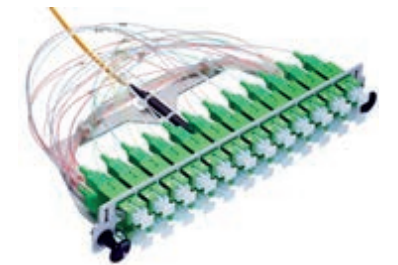
Optical Patch Cords (Optical Jumpers)

Implemented in access networks and communication rooms for installation in cable trays. Singlemode or multimode fibers. Simplex or duplex patch cords. LC, FC, SC, ST or E2000 Connectors (PC or APC). Patch Cords can be produced from 1 meter up to 20 meters.



Fiber Optic Panels

For installation in ODF or Patch Panels. Capacity from 12 up to 96 optical ports. LC, FC, SC or E2000 connectors and couplings.



Optical Pigtails

Installed in patch panels (ODF's) and termination / distribution optical boxes. Singlemode or multimode fibers. Simplex or duplex pigtails. LC, FC, SC, ST or E2000 Connectors (PC or APC). Pigtails can be produced from 0.5 meter up to 3 meters.



Optical Couplings

Implemented to allow optical light between connectors. Couplings allow LC, FC, SC, ST or E2000 Connectors (PC or APC).



KITS FOR INSTALLATION

Kits for installation in Fiber Optical Networks

Automatic Fiber Optic Splicer

Allows the union of fibers (dark and illuminated fibers) through the core alignment. Produced according to IP standards (dust and water resistant).



OTDR (Optical time domain reflectometer)

Work at multiple optical wavelengths (1310, 1550 nm). Dynamic range according to user requirements and network distance.



Optical Power Meter

Used for measurement ranges from +10 up to 70dBm. Supports FC, SC and ST connectors. Work at multiple optical wavelengths (800 to 1700 nm). High accuracy sensor.



Fiber Optic Traffic Identifier

Used to detect optical signal in illuminated fiber. High accuracy sensor.



Visual Fault Locator (VFL)

Used to detect fails or damage in fibers. Portable design and easy implementation.



Who We Are

A team of professionals with vision of the future and action oriented.

We are passionate about designing solutions that respond to the needs of customers.

Where We Are

With offices in Latin America, the United States, Australia & Spain, Ekabel has consolidated its rapid expansion and has participated in numerous important projects.

What We Do

Based on expert knowledge, we design and integrate energy systems, telecommunications and automation to optimize results for our customer and protect their most value assets.





Our Philosophy

360 Integration

When it comes to energy systems and connectivity networks, we've got you covered.

Our ability to integrate several products in a single proposal is the backbone of our service.

Borderless Logistics

Streamlined delivery is part of our signature service in order to meet client needs.

Brain HUB

Our team of top level engineers from around the world, with heavy expertise in the industries we serve, provides our clients expert advice on most challenging projects.

Global Service Team
Experts devoted to help you.

Technology Transfers
Specific training sessions in latest topics.

Flexibility

Our geographic expansion allows us to offer competitive advantages on both small and large projects.

Global reach with local support.





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