POWER & FIBER

IN ONE

HEXATRONIC

AIR BLOWN POWER AND FIBER SYSTEM

OPTIMIZED FOR 5G & SMART CITIES

HEXATRONIC INTRODUCES

POWER & FIBER

InOne

Optical Fibers

Power Wires

Cable Diameter 6 mm!
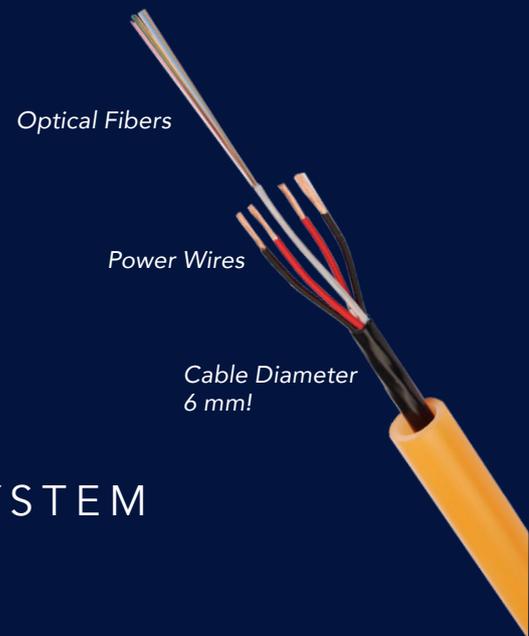
AIR BLOWN POWER AND FIBER SYSTEM

Forget complicated installations and multiple cables for power and fiber connections. With Hexatronic InOne, devices may be connected to power and fiber networks with a single micro hybrid cable – which can be blown into an existing infrastructure of ducts.

READY TO USE IN EXISTING INFRASTRUCTURE

Blowing InOne slim micro hybrid cables into microducts can reduce installation costs by 50-70%. Unoccupied microducts in existing network infrastructure can be used to get maximum output of the network investment already made.

SECURES POWER AND FIBER SUPPLY

The InOne system can feed multiple devices with power and fiber using a source located at a single point. This simplifies network and installation planning and gives you total control over power and fiber supply.

With distances of 500-1000 m and power transmission of up to 400W, the distance and power limitations of existing Power and Fiber transmission systems such as PoE are overridden.
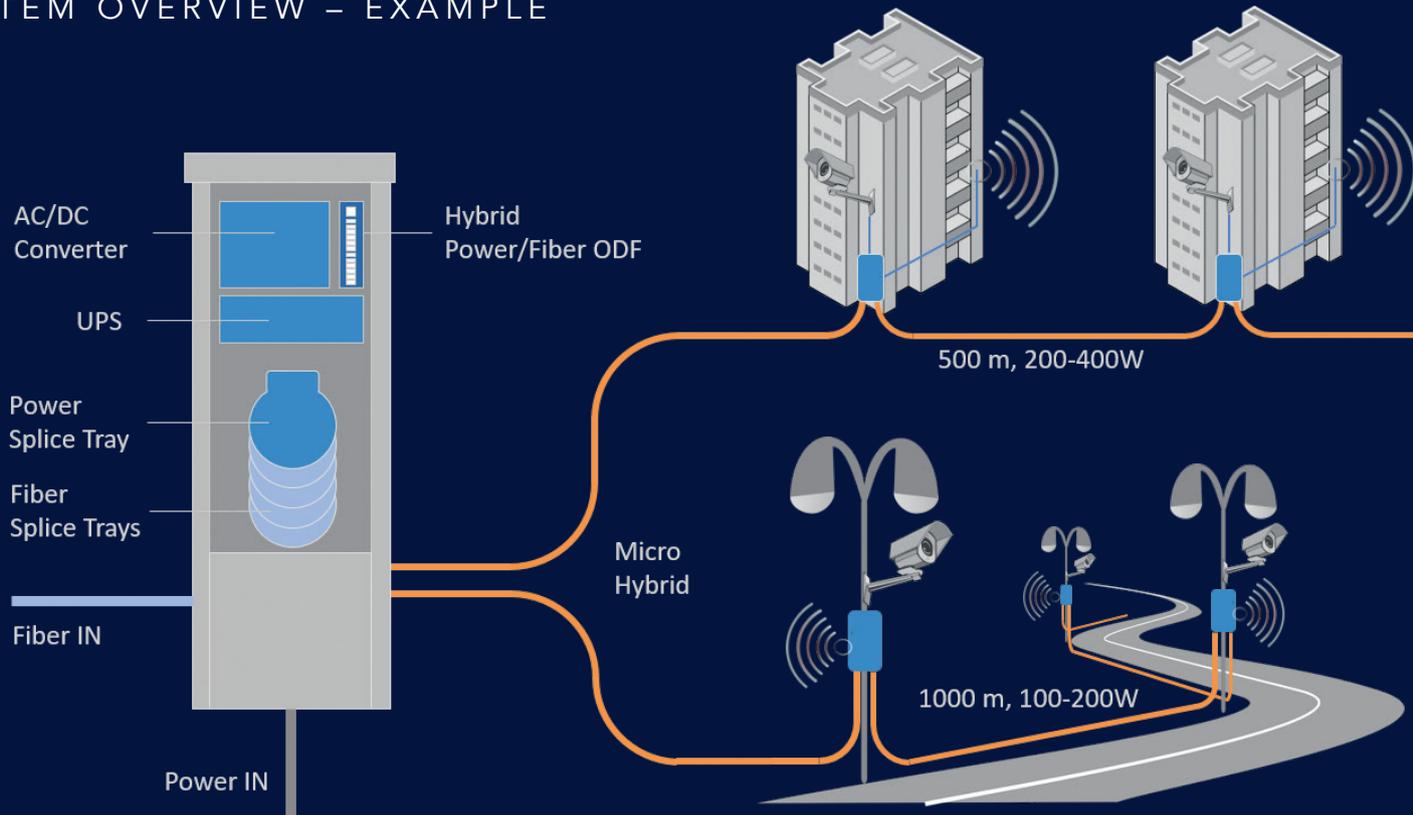
HIGH SAFETY LEVEL

The InOne system use a unique low voltage transmission system to safely transmit high power over long distances through extremely slim air blown cables. The InOne system is tested and approved in accordance to EN 50288-7.

*compared with conventional cable installation

SAVES

50-70%

INSTALLATION COST*

HIGH POWER

>400W

OVER 500 m

SAFE

CE

TESTED AND APPROVED

SYSTEM OVERVIEW – EXAMPLE

AC/DC Converter

Hybrid Power/Fiber ODF

UPS

Power Splice Tray

Fiber Splice Trays

Fiber IN

Power IN

500 m, 200-400W

Micro Hybrid

1000 m, 100-200W

APPLICATIONS

InOne can be used for a diversity of applications such as 5G and WLAN access points, Smart Cities, IoT, Surveillance Systems etc. Some examples are:

Fixed Wireless Access, FWA

5G FWA deployment involves the complexity of planning and optimization of Radio Access Network coverage, Fiber Access Network connections and Power Nework connections. InOne combines two networks into one which reduces the complexity and total cost substantially.

WLAN Coverage

Public WLAN access points benefit from the extended reach of PoE by using the InOne systems PoE extender. A single cable in the InOne system can transmit enough power for several daisy chained WLAN access points over distances of 1000 m or more.

Security Systems and Surveillance Cameras

Owning your own power gives another dimension to the term security and reliability for critical applications. No need to worry about local power interruptions, UPS battery maintenance etc.

The InOne Power Rectifier, Power tray and Fiber Trays integrated into Hexatronic MATRIX Compact Fiber Access Terminal

HEXATRONIC InOne – A COMPLETE SYSTEM

The Hexatronic InOne system consists of all components needed for safe end-to-end transmission of power and fiber. Some examples are shown below:

1. **Access Node Power Rectifiers**
   Converts 230VAC to high power, but safe 100VDC transmission. Hexatronic Fiber trays and Power trays are used to splice towards the hybrid cable.

2. **Hybrid Fiber/Power Termination Panels**
   Miniature panels that combine power and fiber termination onto one single unit for easy connection. Available for DIN-rail or 19" rack mount.

3. **Air-blown ultra slim Hybrid Power/Fiber Cables**
   A complete range of cables for air-blown microduct installation or indoor installation. For distances up to 2000m. Indoor cables are halogen free and flame retardant according to CE Dca.

4. **Power Receiver Unit with Fiber Management**
   This end user connection point can also be supplied with a manageable PoE switch for easy connection of 1-4 WLAN access points, security cameras etc.

12xG657A2/118 Wkm
5.5 mm

12-24xG657A2/236 Wkm
6.1 mm

12-24xG657A2/118 Wkm
HFFR Dca
7.2 mm

12xG657A2/236 Wkm
HFFR Dca
7.9 mm

3. Hybrid Micro Cables

1. Access Node Rectifier

2. Hybrid Termination Panels

4. Power Receiver Unit

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