

#smartconnection



Industrial Market

Telecom Infrastructure Solutions for Harsh
Environments Catalogue

www.aginode.net



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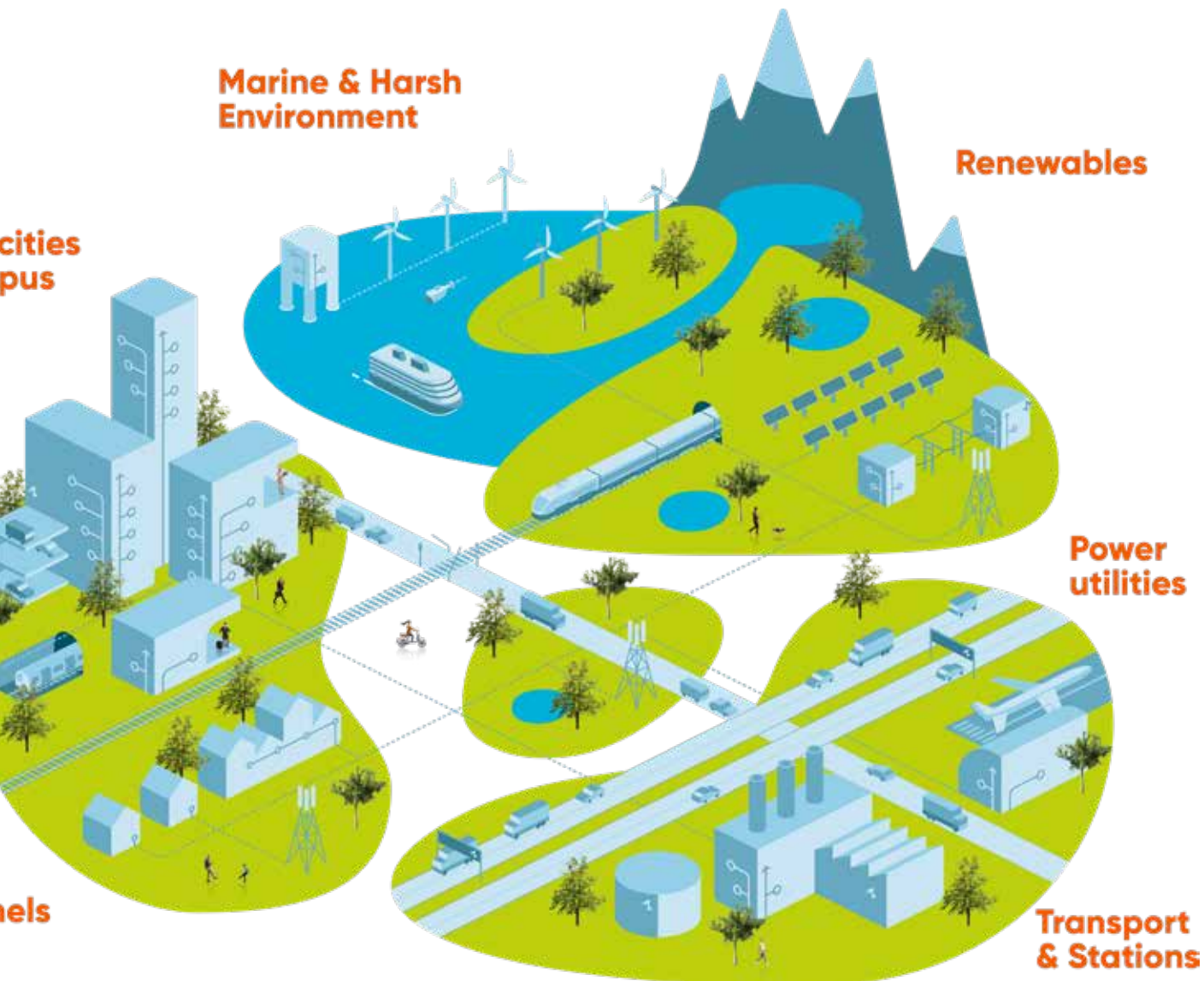
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Find here the LANactive
Industry Catalogue

Smart
& Cam

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Make #smartconnections with Aginode.

Aginode, formerly Nexans Telecom Systems, designs & manufactures connectivity solutions for digital networks in FTTx, Mobile, LAN & Data Centre markets. Our goal: to enable the infrastructure which delivers applications that make lives more connected, productive, and enjoyable; today and in future.

Our international teams have over 30 years proven track record of developing, implementing, and servicing advanced infrastructure solutions, with Aginode's diverse product range under our brand names:

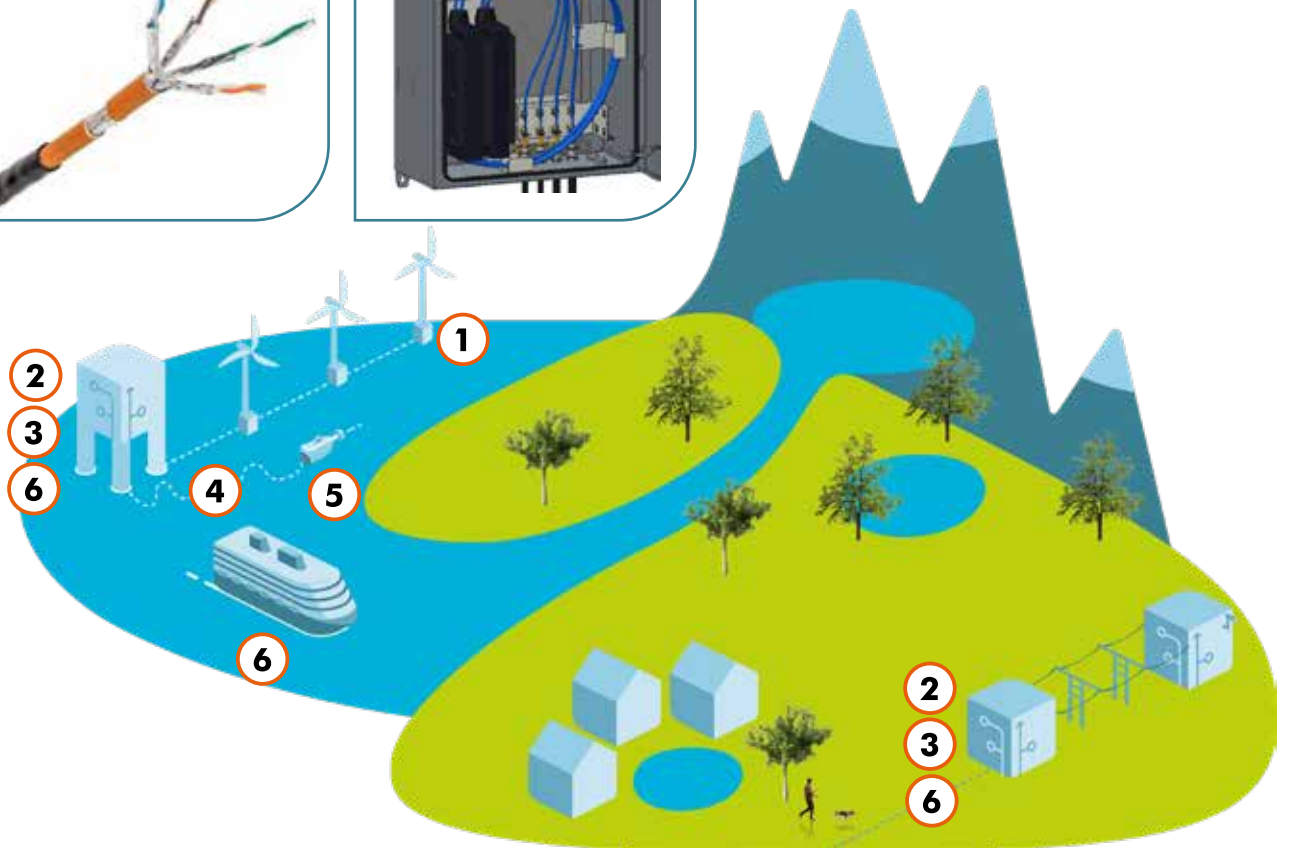
FTTx & Mobile: XPLORES™, BRIGHTBOX™, INFRABIRD™, UPSKY™

LAN & Data Centres: LANmark™, LANSense™, LANactive

With a state-of-the-art industrial footprint and recognised technological know-how in Europe, Middle East, North-West Africa, and Asia, Aginode is a key player in digitalisation and connectivity.

With cable and component manufacturing facilities located just a few hours from Calais, Aginode is perfectly positioned as a manufacturing partner to meet the stringent demands of worldwide roll out projects.

Marine & Harsh Environment



1. Marine stainless steel or polyester watertight housing to protect ODF or splicing closure
 Optical Connection Boxes
 WTC splicing closure (0.5, 1.5 & 2)

2. ODFs and associated connectivity
 Optical modules XPLOER™
 1U & 4U range

3. Seismic 19" cabinets
 OPTEASTAR 19" cabinet seismic version

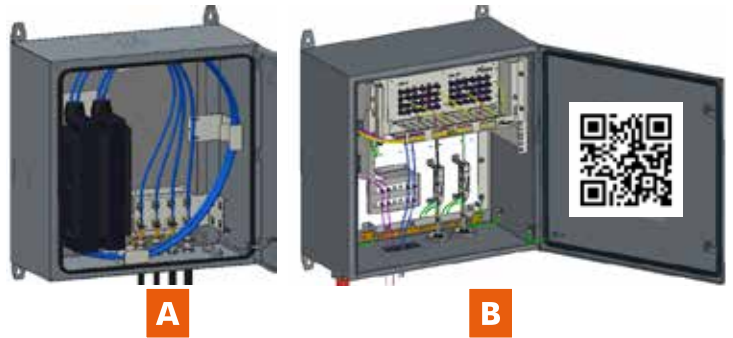
4. FO submarine cable for wire guiding
 Wire guiding SC cable - 1 fibre

5. Polyurethane tactical FO cable
 Field tactical MTFC cable - 2, 4 or 8 fibres

6. Ethernet maritime & harsh environment solutions
 LANmark Industry S/FTP Cat 6A
 LSZH+PE cable
 LANmark Maritime S/FTP Cat 7 SHF1 cable
 LANmark Maritime Patch Panel and Cat 6A/7 connectors

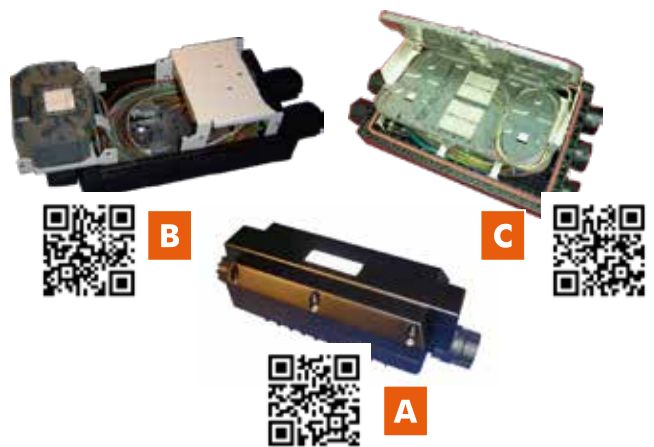
Optical connection boxes

- Made with stainless steel 316L or polyester
- Strong design with IP66/IK10 protection
- Sizes 600x600x300mm
- Equipped with a splicing closure WTC for up to 96 splices **A**
- Equipped with a splicing & patching module capacity 48 LC Dx **B**



WTC splicing closure (0,5, 1.5 & 2)

- Watertight box for manhole or aerial use
Protection IP68 (6m) and IK10
- 2 ports for up to 48 splices
(Sizes L 342 x W 110x H 121.5mm) **A**
- 4 ports for up to 144 splices
(Sizes L 357 x W 191 x H 147mm) **B**
- 6 ports for up to 336 splices
(Sizes L 500 x W 262 x H 179mm) **C**



XPLORER™ Optical modules

XPLORER™ 1U

- Width 19"/ETSI standard, depth 185mm
- Swiveling modules made in polycarbonate
- Different types with combined functions
splicing, patching & splicing, splitting, storage,
and splicing patching splitting (SC, LC,...)
- Premium connectivity for single or multimode fibre



XPLORER™ 4U

- Width 19"/ETSI standard, depth 185mm
- Swiveling modules made in polycarbonate
- Patching, Splicing and patching versions
- Different types with combined functions patching,
Splicing and patching versions (SC, LC,...)
- Connectivity premium for single
or multimode fibre



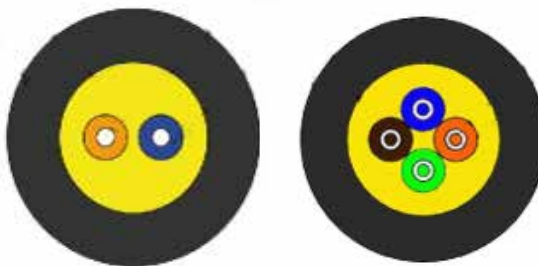
OPTEASTAR 19" cabinet seismic version

- 900mm width & 300mm depth cabinet made with welded structure
- 19" rack with left area for patchcords overlength management
- Cable management and clamping behind the optical modules



Field tactical MTFC cable 2, 4 or 8 fibres

- Specification : SP486 and SP499
- 2, 4 or 8 fibres single or multimode
- Outdoor cable designed to be easily connectorized thanks to its 900µm buffered structure
- Dielectric and compact design (external diameter 5.4 to 6mm)
- PUR material outer sheath - Halogen Free



LANmark Industry S/FTP Cat 6A LSZH+PE cable

- For installation in areas exposed to moisture, water and UV
- Supports industrial Ethernet and high speed data applications
- Enhanced mechanical properties
- Outdoor installation in ducts
- Indoor installation when PE sheath removed
- LSZH inner jacket compliant with CPR fire performance Cca-s1a,d1,a1
- Supports PoE type 4 applications



LANmark Maritime S/FTP Cat 7 SHF1 cable

- DNV approved for installation onboard ships
- SHF1 compliant outer jacket
- High EMC performance
- Category 7 tested to 800 MHz
- Optimized for use with GG45 Maritime connector
- Supports PoE type 4 applications



LANmark Maritime Patch Panel and Cat 6A/7 connectors

- Highspeed heavy duty connector for installation onboard ships
- Cat 7A with backwards compatibility to Cat6A and Cat 6
- 360° screening for high EMC performance
- Fully golden contacts offering resistance to corrosion

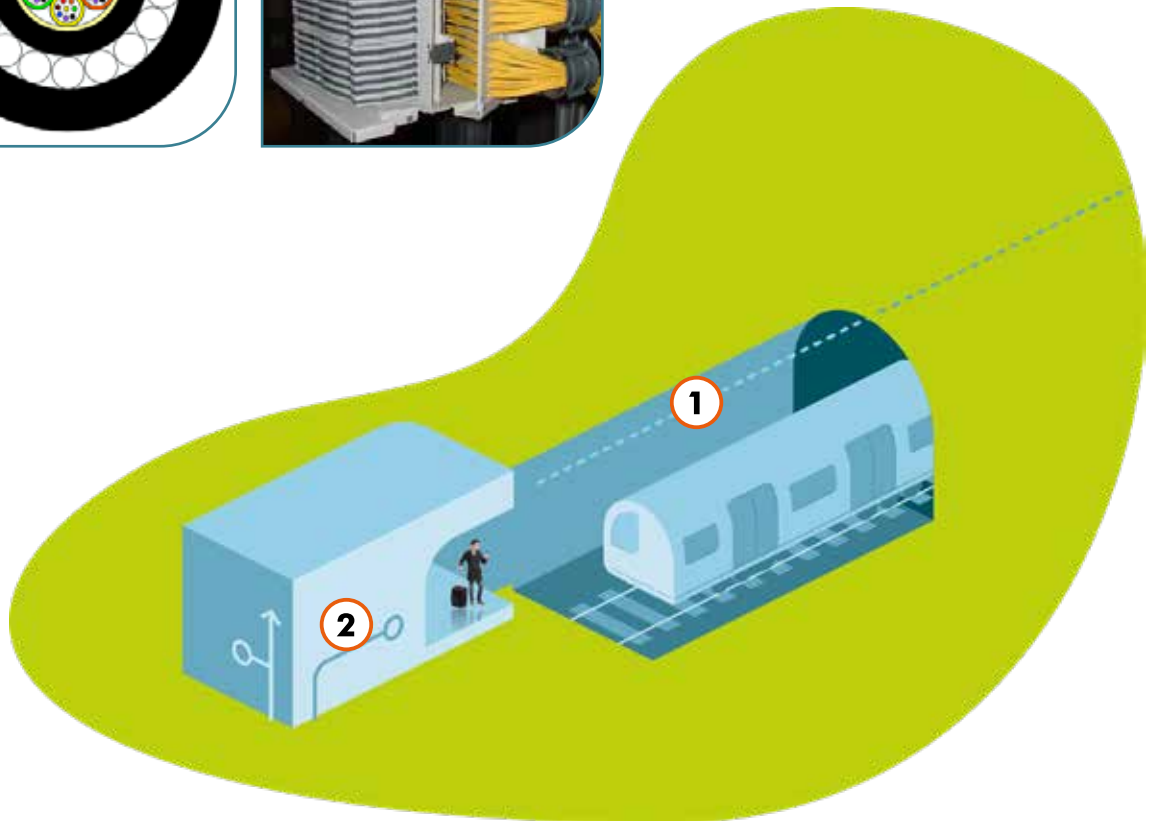


LANmark Maritime Patch Panel

- 24 shuttered RJ45/GG45 ports in 1U
- Robust stainless steel construction for corrosion resistance
- Automatic earthing system
- Tie-wrap fixings for cable strain relief



Tunnels



1. Fire resistant and anti-rodent optical fibre cable

K209B optical fibre cable
FLOWGUARD™ optical fibre cable

2. HD ODF for small room

HD splicing module
HD splicing & patching module

K209B optical fibre cable

- Optical fibre cable range up to 288FO
- Robust design, optimised for tunnel installation
- Indoor/outdoor applications
- B2ca-s1a, d0, a1 fire protection and 120min fire resistance (EN 50200)
- Excellent rodent protection thanks to its corrugated steel armor
- 6 or 12 fibres per module



FLOWGUARD™ optical fibre cable

- Range of optical fibre cables for up to 72FO
- Robust design, optimised for tunnel installation
- Outer diameter Ø12.4mm
- Indoor/outdoor applications
- B2ca-s1a, d0, a1 fire protection and 120min fire resistance (EN 50200)
- High protection against rodents
- 6 or 12 fibres per module
- Dielectric, no earthing required as on the K209B family



HD splicing module

- Standard range for installation in technical rooms on openframes
- Cable head adapted to the environment of truss-mounted distribution boxes (including HPUL),
- Available in 1, 2 or 3 FiberArt single fibre management module versions
- Rodent-proof cover,
- Interconnection between 2 cables and/or 1 cable and long pigtails

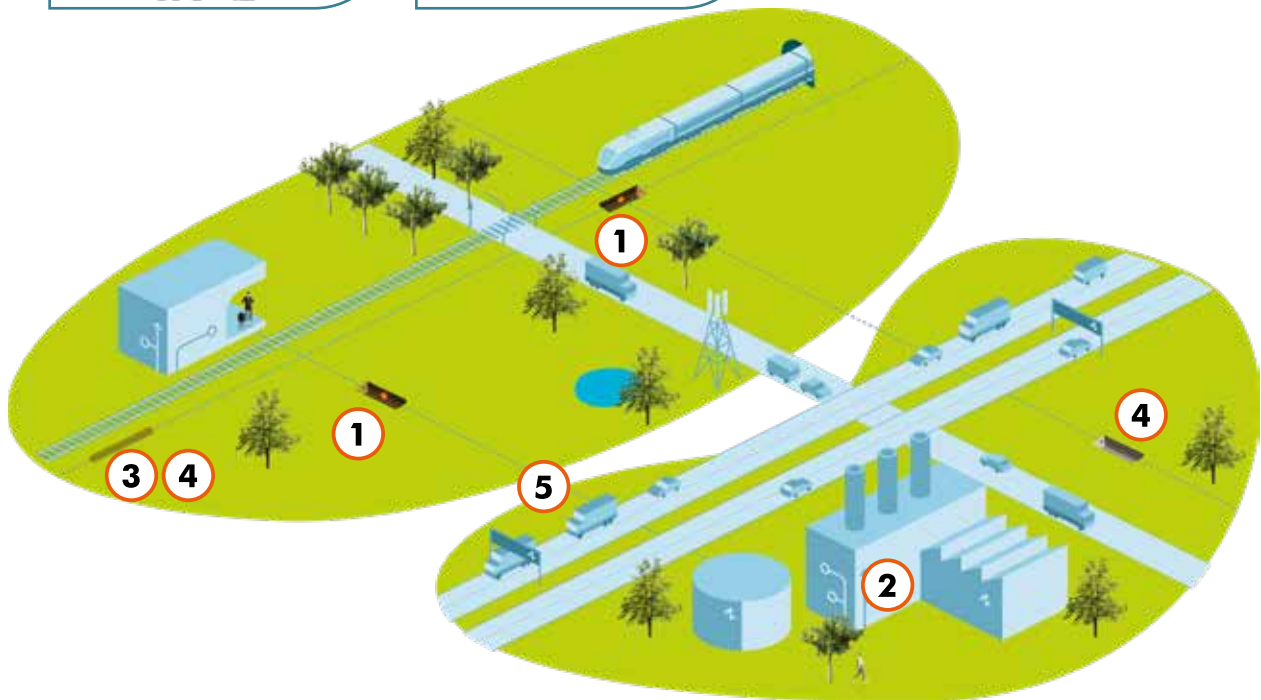
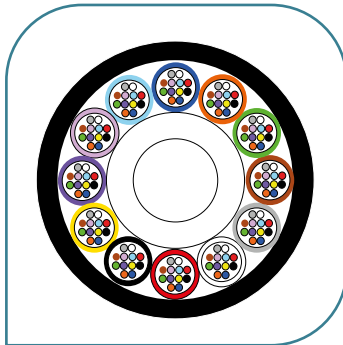


HD splicing and patching module

- Standard range for installation in technical rooms on openframes
- Cable head adapted to the environment of on-farm distribution frames (including HPUL),
- Available in 12, 24 or 48 SC/APC single-mode or ST multi-mode connectors.
- Swivelling front panel,
- Anti-rodent cover,
- Splicing management system by cassette for up to 6 splices,
- Fixing of 2 cables
- Storage area for excess fibre lengths



Transport and stations



1. Splicing and/or patching closure

WTC splicing closure (0.5, 1.5 & 2)
BRIGHTBOX™ closure

2. Splicing and/or patching aerial boxes

OUTDROP box
ODB4 box

3. Optical fibre cable to be blown in microducts

B-LITE³ microbundle cables
B-LITE LT microbundle cables

4. Optical fibre cable to be pulled in ducts

RSM microbundles cables

5. Optical fibre cable to be directly buried

Loose tube armored cable

WTC splicing closure (0.5, 1.5 & 2)

- Watertight box for manhole or aerial use IP68 (6m) and IK10 protection
- 2 ports for up to 48 splices
(Sizes L 342 x W 110x H 121.5mm)
- 4 ports for up to 144 splices
(Sizes L 357 x W 191 x H 147mm)
- 6 ports for up to 336 splices
(Sizes L 500 x W 262 x H 179mm)



BRIGHTBOX™ closure

- Watertight box for manhole or aerial use
- IP68 (3m) and IK09 protection
- Sizes H300/400xW350xD230mm
- Patching for up to 32 SC cavity adaptors
- Splicing for up to 144 splices for G652D or G657A fibres
- Midspan oval entry with fixing for main FO cable Ø6 to 20mm
- 8-port outputs with fixing for up to 8x4 drop cables Ømax 6mm
- Side clip closing



OUTDROP box

- Indoor or outdoor aerial use, wall or pole mounting (complementary accessory)
- IP55, IK07, plastic UL94 V2 protection
- Size H175xW145xD45mm
- Patching for up to 4 SC cavity connectors
- Splicing for up to 8 splices for G652D or G657A fibres
- Bottom entry with cable stowage Ømax12mm
- Bottom outputs with fixing up to 4 cables (drop) Ømax 4.5mm
- Torx T30 screw lock (key supplied)



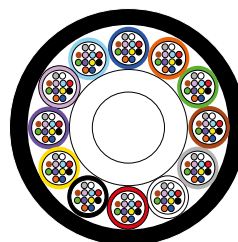
ODB4 closure

- Indoor or outdoor aerial use, wall or pole mounting (complementary accessory)
- IP55, IK07, plastic UL94 V2 protection
- Size H175xW145xD45mm
- Patching for up to 4 SC cavity connectors
- Splicing for up to 8 splices with G652D or G657A fibres
- Bottom entry with cable stowage Ømax12mm
- Bottom outputs with fixing up to 4 cables (drop) Ømax 4.5mm
- Torx T30 screw lock (key supplied)



B-LITE³ microbundle cables

- Range of optical fibre cables from 12 to 288FO
- Optimised design to be blown in microducts (can be carried in water)
- Blown over long distances thanks to the low coefficient of friction of the outer sheath
- Good balance between rigidity and flexibility
- Easy installation with simplified access to the 250µm fibres and easy stripping of the micro sheath
- Central strength member
- Fully dielectric design and waterproof structure



B-LITE LT microloose tubes cables

- Range of optical fibre cables from 12 to 288FO
- Optimised design to be blown in microducts (can be carried in water)
- Blown over long distances thanks to the low coefficient of friction of the outer sheath
- Good balance between rigidity and flexibility
- Easy installation with simplified access to the 200µm fibres and easy stripping of the micro sheath
- Central strength member
- Fully dielectric design and waterproof structure



RSM microbundle cables

- Range of optical fibre cables from 12 to 288FO
- Robust design, optimised for installation in ducts (pulling, blowing) or overhead
- Easy installation thanks to simplified access to the fibres and easy stripping of the micro-sheathing
- Reinforced with glass yarns and lateral strength members
- Dielectric and watertight structure
- Outdoor version with UV-protected HDPE sheath



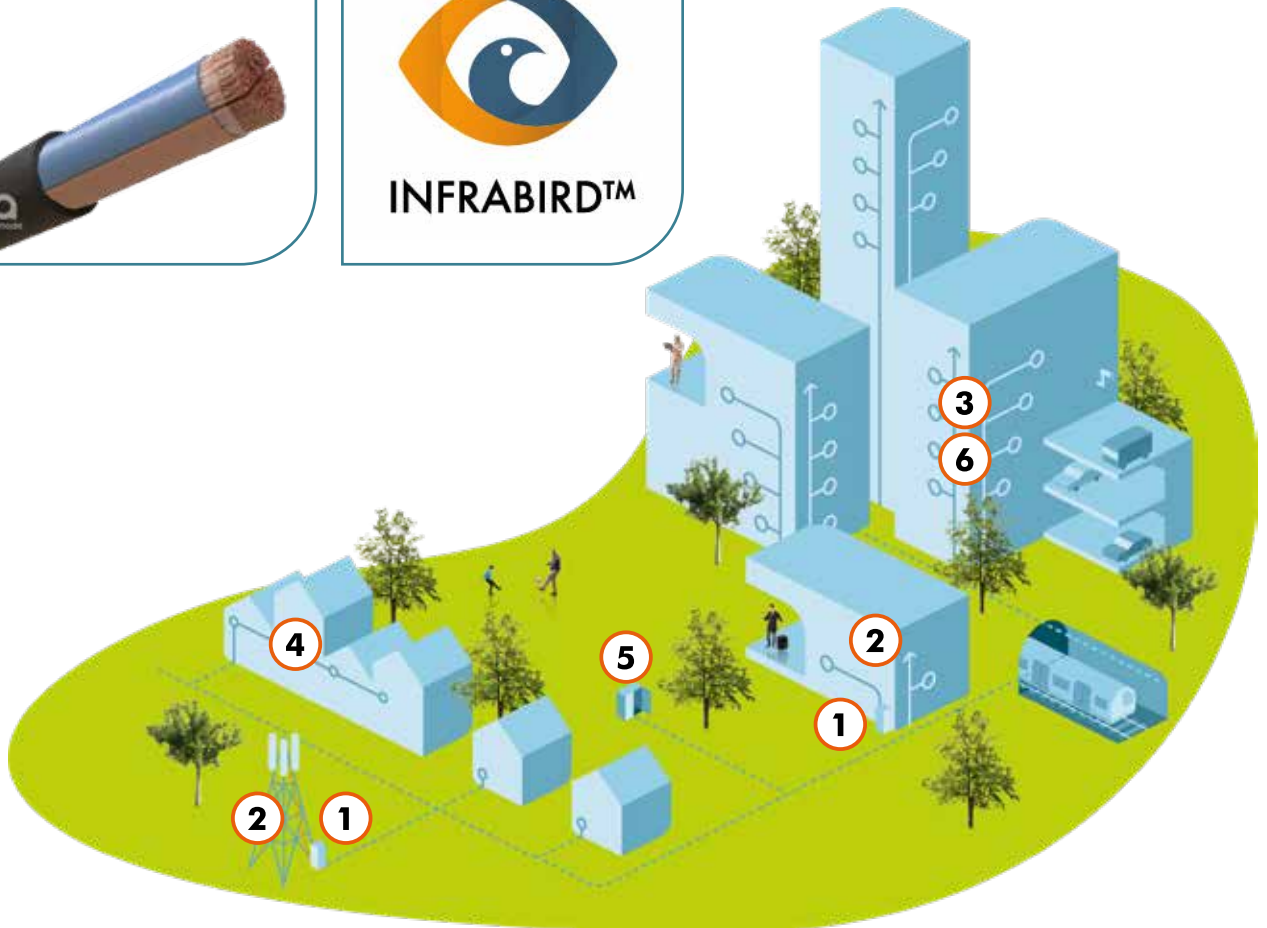
Loose tube armored cable

- Specification : SP1505 up to 6x12FO
- Used for Access, Distribution, City Networks and FTTx applications. Designed to be installed by pulling in ducts, or by laying in open trench and concrete shaft.
- Characteristics & Applications
- High crush resistance for direct buried installation
- Rodent protection
- Central strength member reinforcement
- Metallic armor
- Waterproof structure





Smart Cities & Campus



1. Hybrid connection boxes for optical fibre, low voltage and/or ethernet cables

BRIGHTBOX™ Smart configuration
ODB4 box

2. Hybrid and power cables

Hybrid Power & Data cable - HTTA
UPSKY™ D-Core power cable - PTTA

3. Cca range of indoor cables

Unibundle cable 1-12 fibres
Multibundle cable 24-144 fibres
Riser microbundle cables Cca

4. Complete indoor telecom range

Basement box DOMINO
Floor box VERTHOR
@XS Optical Terminal Outlets
Cca range of indoor FO cables (drop, single and multibundle)
Other FO drop cables, outdoor and with double sheath

5. Access control and monitoring
INFRABIRD™

6. Ethernet cable

Ethernet LANmark cables
(see the data catalogue)

BRIGHTBOX™ closure

- Box for aerial use (wall or pole mounting)
- IP65 and IK09 protection
- Size H300/400xW350xD230mm
- Patching for up to 32 SC adaptors
- Splicing for up to 144 splices with G652D or G657A fibres
- Midspan oval entry with fixing at main FO cable Ø6 to 20mm
- 8-port outputs with fixing for up to 8x4 cables Ømax 6mm
- Side clip closing
- hybrid configuration on demand



ODB4 box

- Indoor or outdoor aerial use, wall or pole mounting (with complementary accessory)
- IP55, IK07, plastic UL94 V2 protection
- Sizes H175xW145xD45mm
- Patching for up to 4 SC cavity connectors
- Splicing for up to 8 splices for
- Bottom entry with cable stowage Ømax12mm
- Bottom outlets with fixing at up to 4 cables (drop) Ømax 4.5mm
- Torx T30 screw lock (key supplied)



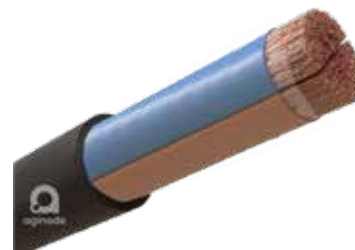
Hybrid Power & Data cable - HTTA

- Hybrid cable with copper wires 2x1,5mm² and 2 fibres
- Outer sheath LSZH with diameter Ø8.4mm
- Indoor or outdoor use with UV resistance and water blocking tape
- Complying fire resistance standard
- Very flexible and easy to strip and connect
- Fibres terminated by splicing in a hybrid termination box after splitting copper wires
- High CPR performance B2ca, to be installed indoor into locations that require high level of fire performance like metro stations and hospitals



UPSKY™ - D-Core power cable - PTTA

- D-Core unshielded dual copper conductor
- Dual conductor cable for the electric DC designed for interconnexion between the Base Unit and the Radio Units 4G/5G,
- Specific D-Core conductors design from 2x4mm² to 2x35mm²
- Compatible with connectors used by major operators and OEMs,
- Halogen free outer sheath, flame retardant, available in Eca or Dca version.



Unibundle cable 1-12 fibres

- Specification : SP1879
- For indoor or outdoor use
- LSZH outer sheath with UV and fire protection complying with Cca-s1a,d1,a1 standard
- Flexible and robust Ø 6mm



Multibundle cable 24-144 fibres

- Specification : SP1880
- Available from 24 to 144 fibres (bundle of 6 or 12 fibres)
- For indoor or outdoor use
- LSZH outer jacket with UV and fire complying with protection Cca-s1a,d1,a1 standard
- Flexible and robust Ø9.3mm (144FO)



Riser microbundle cables Cca

- Available from 24 to 144 fibres (bundles of 2, 4, 6 or 12 fibres)
- Indoor use
- Optimised for installation with bundle extraction (up to 6m)
- LSZH outer sheath and fire complying with protection Cca-s1a,d1,a1 fire standard
- Flexible and robust Ø11.2mm (144FO)



Basement DOMINO

- Indoor building entry point
- 3 capacities available for 24, 48 or 72 SC adaptors
- Sizes H100, 165 or 210xW450xD150mm
- Front patching between backbone cable and riser riser
- Rear cable termination for security
- Extension by adding boxes



@XS-BOX L/XL

- Indoor and outdoor (wall mounting)
- IP55 to 65 and IK07 protection
- @XS-Box L : patching version :48 SC/96 LC
2 modules
Width 422mm, Height 385mm, Depth 124mm
- @XS-Box XL : patching version 96 SC/192 LC
4 modules inside
Width 422mm, Height 558mm, Depth 124mm
- Splitters version from 1:4 to 1:32
- Link to NFC identification software, RFID delivery control, and ready for INFRABIRD™ access control



Floor box @XS-BOX M Splicing and patching version

- Dimensions (mm) H180xW125xD42mm
- IP42 protection (with seals), IK08, UL94 V0 plastic
- Indoor use, vertical or horizontal wall mounting
- Patching for up to 12 SC adaptors
- Splicing for up to 24 splices with G652D or G657A fibres
- Top and bottom outputs for riser cable stowage (extraction)
- Top and bottom fixing device for up to 2x12 drop cables
- Closing by ¼ turn key (optional)
- Skirting accessories for mounting along a PVC support for management



Outlets: @XS QUAD

- Up to 4 SC adapters
- Wall mounted, on flush box or DIN rail
- No lid-opening to fix the outlet
- Ready-to-fix kit in option
- Swiveling flap to protect and hide the identification label
- Area to stick Identification label (under the flap)
- 4-colour identification code for the adaptors
- Indication that polarizing slot is upwards
- Integrated laser symbol



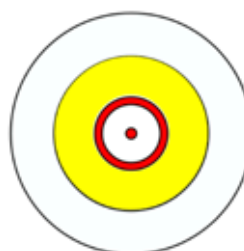
Outlets: @XS SLIM

- 1 SC adapters
- Wall mounted, on flush box or DIN rail
- No lid-opening to fix the outlet
- Ready-to-fix kit in option with
- Swiveling flap to protect and hide the identification label
- Integrated laser symbol
- Indication that polarizing slot is upwards
- 1 Keystone slot for RJ45 or coaxial plug delivered within the Hybrid optional kit



Indoor drop - single fibre cord Cca

- Specification : SP1909
- Compliant with XPC 2022
- Single fibre cord designed for indoor installation Ø2.2mm
- This cable is provided as a standard with a white sheath, other sheath colours are available
- Operate under a large temperature range
- This cable has a central maxistrrip buffered fibre. The design is reinforced by a layer of aramid yarns and a LSZH sheath



Indoor drop – unibundle cables Cca

- Specification : 1766
- Unibundle cable from 2 to 12 fibres Ø4.1mm
- The SC LSZH cable is available with singlemode and multimode fibres
- This cable is provided as a standard with a black sheath, other sheath colours are available
- This cable can be operated under a large temperature range



Outdoor drop cable – single fibre Dca

- Specification : SP1953
- Single fibre cord designed for outdoor installation Ø4.5mm
- Complying with Euroclass Dca s2 d1 a1
- This cable is designed for subscribers connections. It's suitable for aerial installation
- Maxistrip fibre 900µm (strippability 1m) with water swellable yarn
- Glass and aramid yarns reinforcements for aerial applications
- LSZH UV resistant outer sheath



Outdoor aerial drop cable

- Specification : SP1799
- Unibundle cable from 1 to 4 fibres Ø4.9mm
- This cable is designed for subscribers connections. It's suitable for aerial and duct installation by pulling or pushing
- Micro bundle central module
- FRP and aramid yarns reinforcements for aerial applications
- UV resistant outersheath



Indoor outdoor drop cable – double sheath

- Specification : SP1937
- Double sheath diameter 6mm
- XPC22 compliant
- LSZH inner cable with 2.7mm diameter.
- Aramid yarns reinforcements for aerial applications
- PE UV resistant outersheath
- Compliant with Cca standard

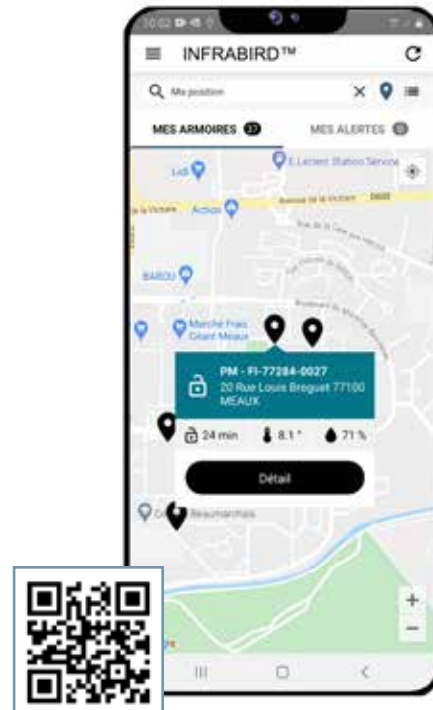




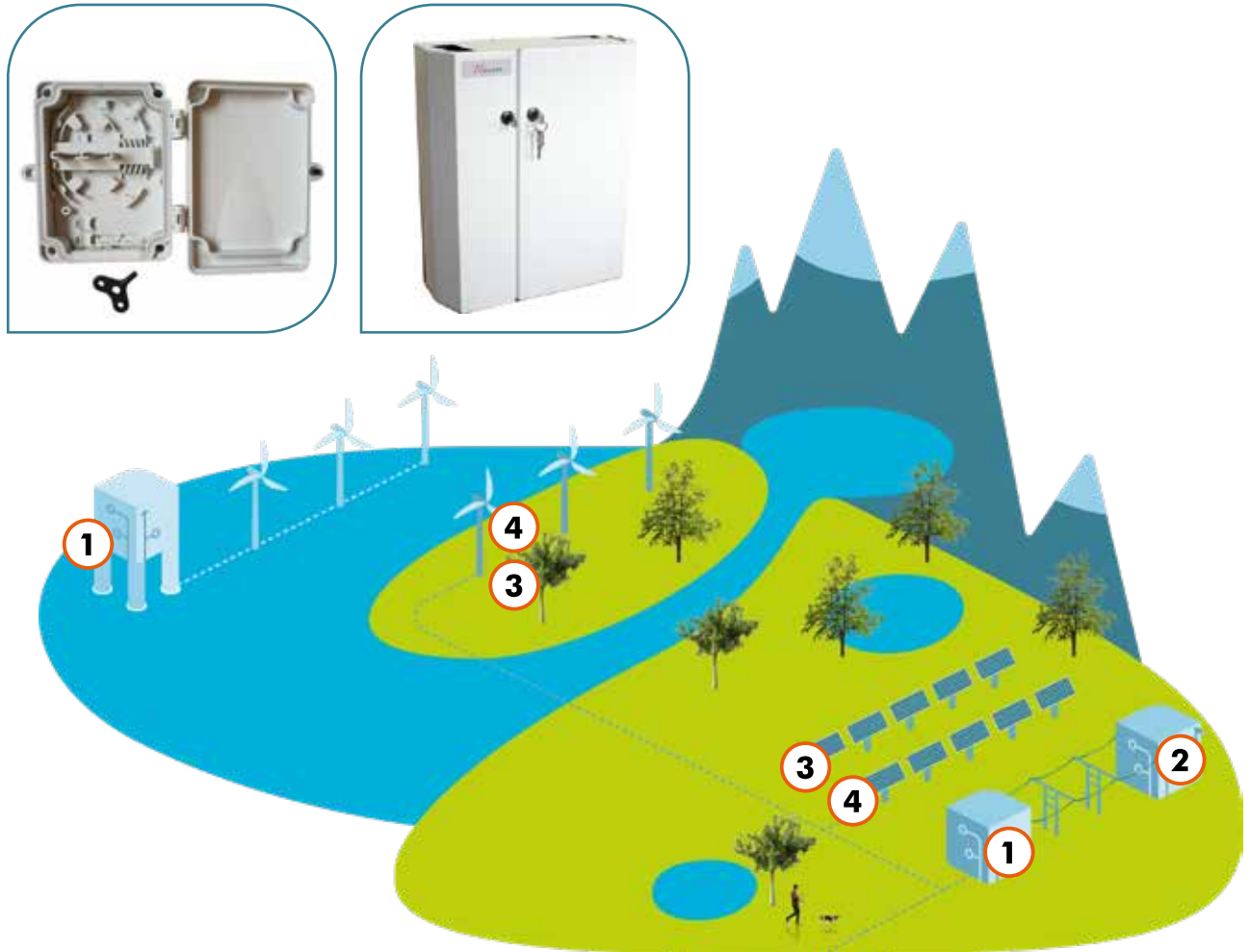
Access control and monitoring solution INFRABIRD™

Secure your site with :

- Opening by using NFC of your smartphone
- Traceability of technician interventions
- Visualisation of site installation status
- Break-in detection and alarm reports
- Quick and easy installation without drilling
- Geolocation of sites
- Optimized rights management
- Solution designed by Aginode adaptable to your specific needs



Renewables



1. 19" ODF, cabinet and associated connectivity

- 19" optical modules TOCB
- 19" optical cabinets BZ19
- 19" wall-mounted cabinet COF19
- Preterminated cable and patchcords

2. Double access indoor cabinet

- Wall-mounted cabinet CROS Premium
- Wall-mounted cabinet CROS+ 1&2

3. Connection boxes

- ODB4 box
- Aeroclick box

4. Outdoor preterminated cables and patchcords

- Preterminated cable and patchcords
- Hardened connectivity

19" optical modules TOCB

- Sliding metallic modules with splicing and patching
- Available heights 1U or 2U with additional storage area for overlengths (1 or 2U higher)
- All types of connectivity available



19" optical cabinets BZ19

- 19" modular cabinets with glass front door, removable side and rear panels
- Sober and robust design with cable entries from the bottom or the top with brush
- Width 600 or 800mm & Depth 600 or 800mm
- Useful heights 36U or 42U

Options :

- Fixing plate for clamp and fanout device (DEP, DSM, ...)
- Rear plate with 5 rings for cable management on the rear side
- Up and down cable trays for the jumpers management on the front side
- Right and left C profiles with 8 spools kits Ø50 (width 800 only)



19" wall-mounted cabinet COF19

- 19" modular cabinets with glass front door, removable side and rear panels
- Available in standard or double section versions (rear opening to access to cable management)
- Useful heights 6-10-12-15-18U



Double access indoor cabinet CROS Premium

- 2 secured compartments with 2 doors
- Separation with integrated patch panel
- On demand configuration
- Capacity up to 24 adaptors and up to 24 splices



Double access indoor cabinet CROS+ 1&2

- 2 secured compartments with 2 doors
- Separation with integrated patch panel
- On demand configuration
- CROS PLUS 1 capacity 24 to 48 adaptors and up to 144 splices
- CROS PLUS 2 capacity 72 to 96 connectors and up to 288 splices



ODB4 box

- Indoor or outdoor aerial use, wall or pole mounting (with complementary accessory)
- IP55, IK07, plastic UL94 V2 protection
- Size H175xW145xD45mm
- Patching for up to 4 SC adaptors
- Splicing for up to 8 splices for G652D or G657A fibres
- Bottom entry with cable fixing \varnothing max12mm
- Bottom outputs with fclamping for up to 4 cables (drop) \varnothing max 4.5mm
- Torx T30 screw lock (key supplied)



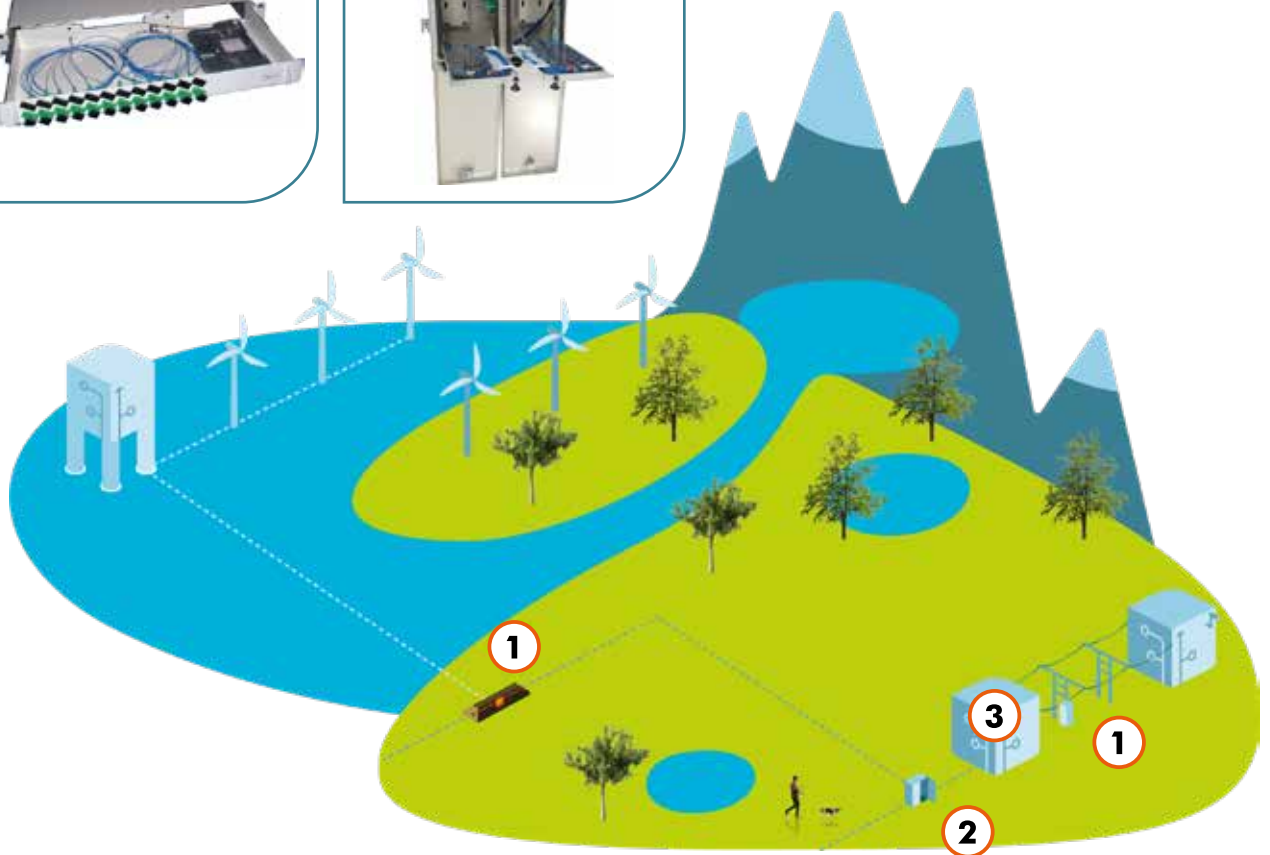
Aeroclick box

- Indoor or outdoor aerial use, wall or pole mounting
- IP55, IK08 protection
- Size H290xW210xD90mm
- Patching for up to 8 adaptors direct access at the bottom using hardened connectivity (direct access without opening)
- Splicing of up to 48 splices with G652D or G657A fibres
- Bottom entry with cable fixing \varnothing maxXXmm
- Bottom outputs with clamping for up to 8 cables
- Closing with $\frac{1}{4}$ turn key
- On demand optical or hybrid configurations





Utilities



1. Specific versions of closures

WTC OPGW closure
WTC patching closure

2. Double access outdoor cabinets

KLIMA 48
KLIMA 96
KLIMA 288

3. 19" ODF cabinets and associated connectivity

19" optical modules TOCB
19" optical cabinets BZ19
19" wall-mounted cabinet COF19
Preterminated cable and patchcords

WTC OPGW closure

- Versions of WTC closure with metal cover
- Cabling in a HV environment with OPGM or THYM cable requiring earthing
- Reinforced protection, underground buried or overhead bulletproof for installation



WTC patching closure

- Versions of WTC closure requiring patching and splicing
- The WTC's slotted joints allow the use of pre-connectorised cables or cords
- Versions with integrated patching



Double access outdoor cabinet KLIMA

- 2 secured compartments with 2 doors
- Separation with integrated patch panel
- On demand configuration
- Outdoor paint color light khaki RAL7003

KLIMA 48

- Wall-mounting, splicing, coiling and patching for up to 48 fibres



KLIMA 96

- Wall or base mounting, splicing, coiling and patching for up to 96 fibres



KLIMA 288

- Base mounting, splicing, coiling and patching for up to 288 fibres



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info@aginode.net

www.aginode.net

