

# DATA CENTER SOLUTIONS

Everything you need in the new digital era, from the world leader in Energy and Digital Solutions

# PRYSMIAN CONNECTS AND IS CONNECTED

Prysmian is the world leader in the development and manufacture of power and telecommunication cables. Our portfolio provides the wrap-around cable infrastructure for data centre facilities.



**33,000** people

With experts ready for every project.



**50+** countries

We're uniquely placed to serve our customers, wherever they are.



**109** manufacturing plants

Ensuring we maintain some of the industry's shortest lead times.



**27** R&D&i centres

Innovation and excellence - across every aspect of our business.

# ALWAYS IN CONTROL OF THE PROCESS - DIGITAL SOLUTIONS OPERATIONS



**USA:**  
- Connectivity Manufacture  
- Singlemode Fibres  
- 16f Ribbon  
- FlexRibbon  
- MMC/16f



**UK:**  
- Connectivity Manufacture  
- Duplex/MPO Terminations



**France:**  
- Singlemode Fibres



**Netherlands:**  
- Multimode Fibres



**Romania:**  
- Interconnect Cable  
- Ribbon Cable



**Slovakia:**  
- Internal & MPO Cable  
- Category Cable  
- Pre-termination



**Spain:**  
- FO Cable manufacturing



**Portugal:**  
- Category Cables



**Germany:**  
- Category Cables



**China:**  
- Fibre Manufacture  
- Duplex/MPO Terminations



**Vietnam:**  
- Duplex/MPO Terminations  
- Cassette Manufacture

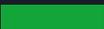


**Philippines:**  
- Duplex/MPO Terminations  
- Cassette Manufacture

# COMPLETE DATA CENTER OVERVIEW



**TELECOMS SOLUTIONS**

-  Long-haul interconnect (submarine and terrestrial) solution
-  Building interconnect solution
-  Indoor pre-connectorised solution

**ENERGY SOLUTIONS**

-  Energy connection to main grid (HV and MV)
-  Local energy distribution
-  Indoor energy distribution

UHD connectivity



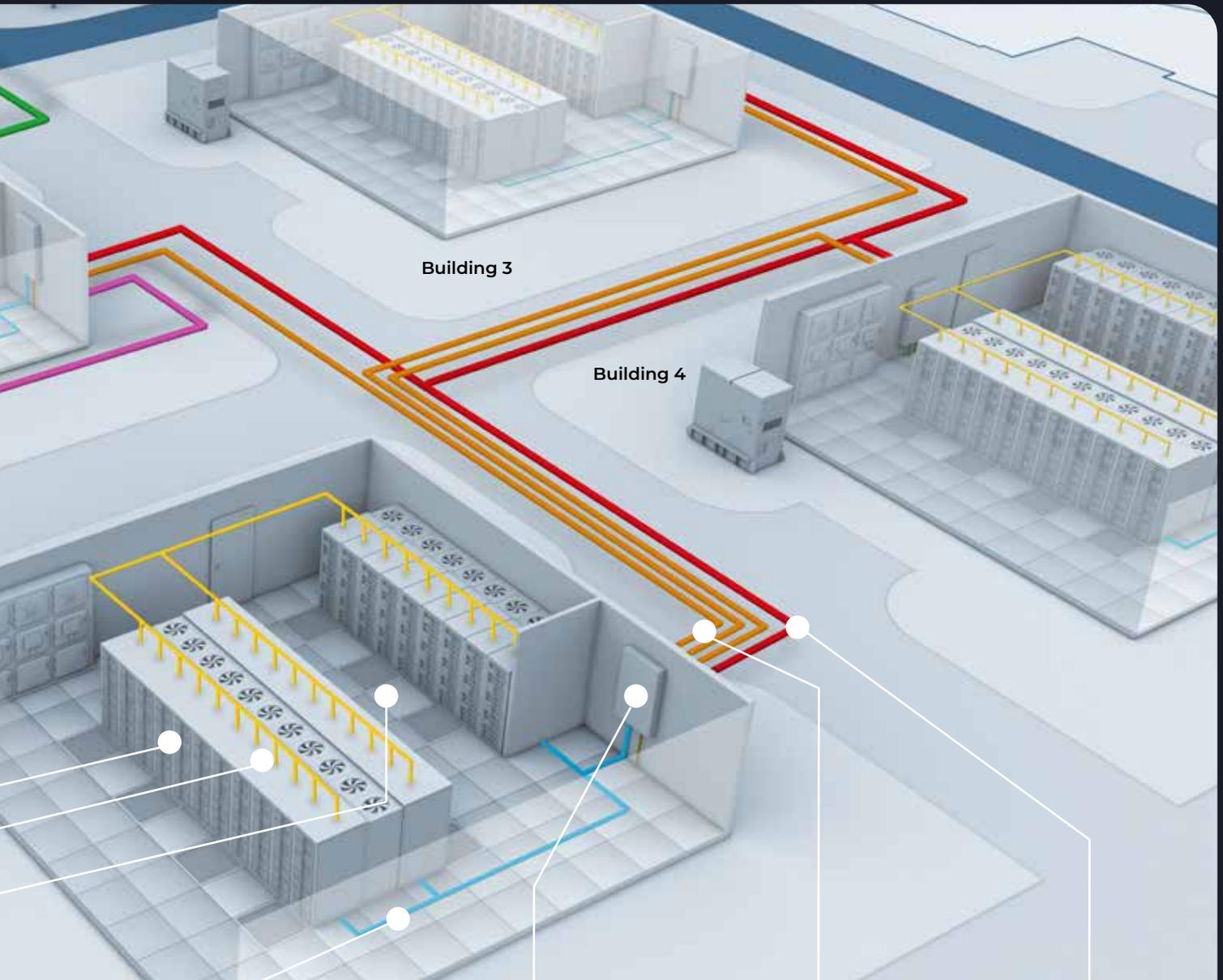
Prysmian's UHD distribution solution



Pre-Connectorised UC Connect



Trunking solutions



Prysmian Energy LV



Cable monitoring technology



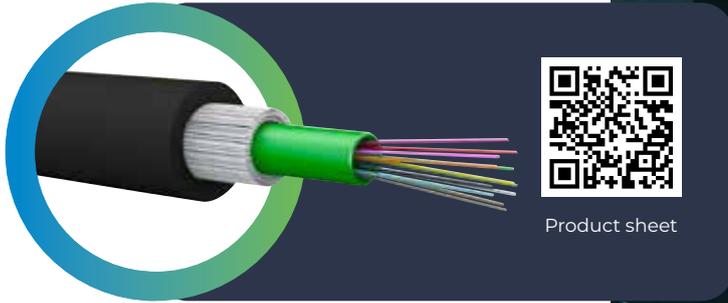
FlexTube®  
FlexRibbon™  
Sirocco®  
Loose Tube 200µm



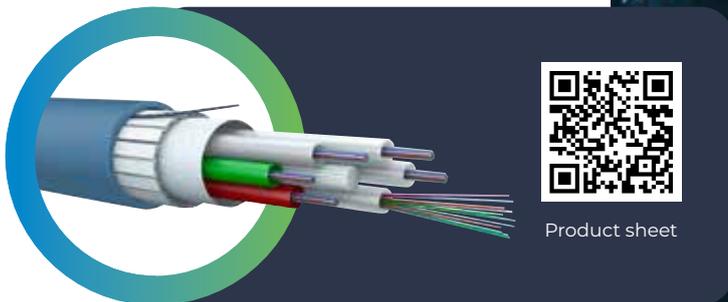
Prysmian Energy MV  
+ Prysmian Electronics

Interconnection Cables

# UC FIBRE



**Uni Tube**



**Multi Loose Tube**



**Tight Buffered**

## COMPLETE PRODUCT RANGE

- Indoor/Outdoor
- Blown fibre
- Distribution/Breakout
- Steel wire armour and CST
- Cables for harsh environments
- Trunk and MPO patch cord assembly
- Fibre optic cables for data centres

## CPR COMPLIANCE

- Unique supplier of: non-metallic, gel-filled cables,  $C_{ca} + B2_{ca}$  approved, up to 288 fibres

## BENDBRIGHT XST™ FIBRE

- World-class bend-insensitive fibre
- Including OM5 and OS2

# ADVANCED HIGH DENSITY CABLE SYSTEMS FOR DATA CENTERS INTERCONNECTIONS



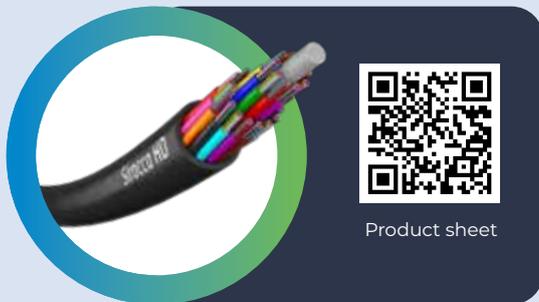
## FlexTube®

- Up to 1 728 fibres.
- Easy to access the fibers (end access) / easy to install tubes.



## FlexRibbon™

- Up to 6 912 fibres.
- Mass splicing.
- Highest fibre count.



## Sirocco®

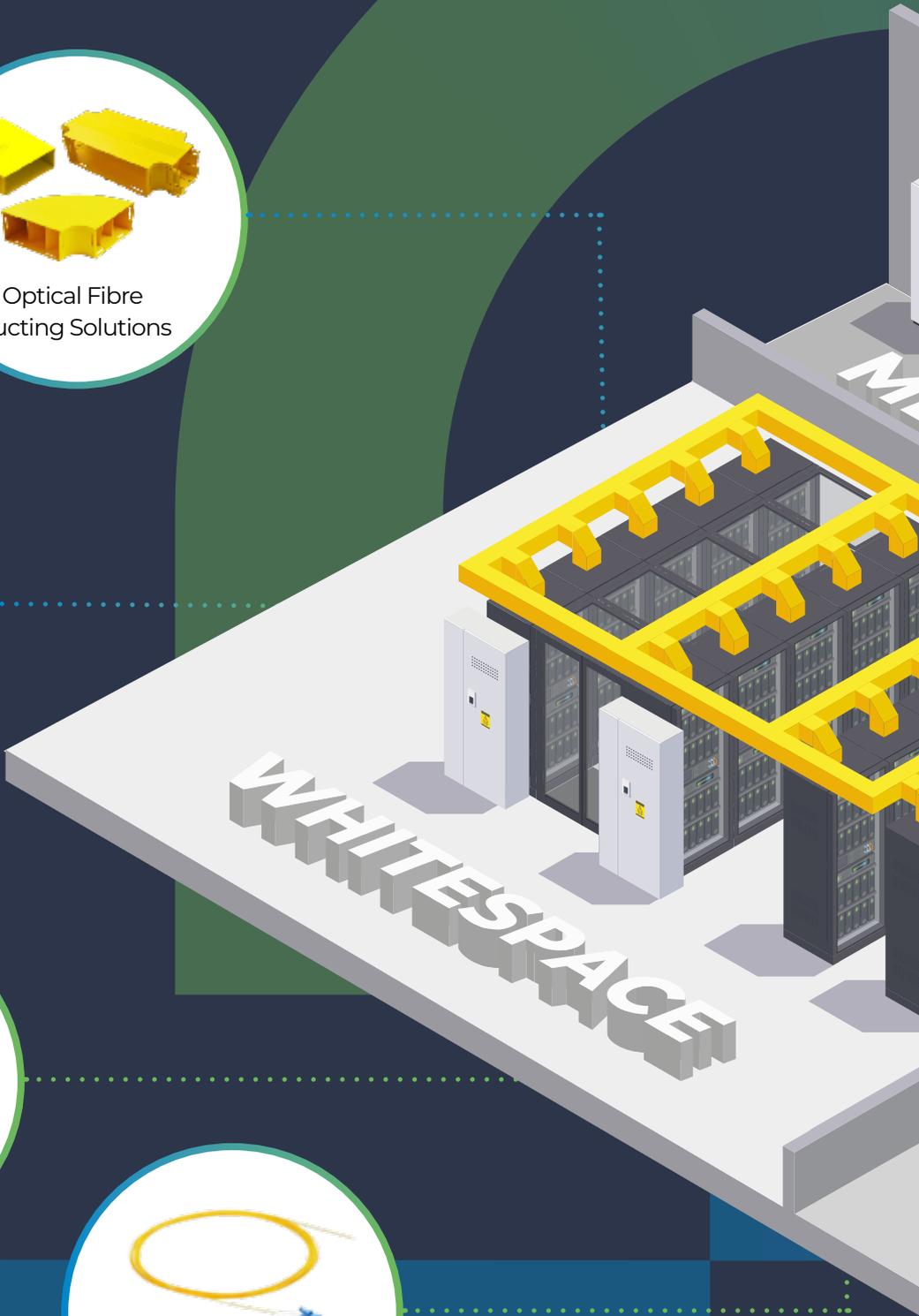
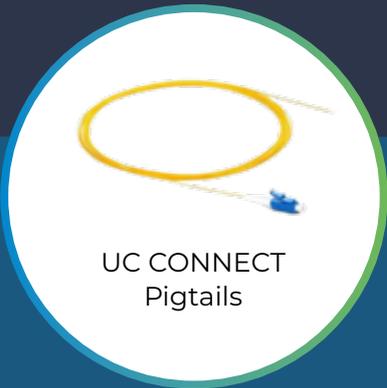
- Up to 864 fibres in 11.5 mm.
- Smallest cable size / sustainability.
- After optimisation of the optical fibre and materials and rigorous testing, Prysmian Sirocco cables now have an expected lifetime of 50+ years without compromise on performance during that time. This enables operators to calculate the lifecycle analysis of their network over a much longer period of time.



## Loose tube 200µm

- Smaller diameter and weight than standard loose tube cables (20% reduction in diameter).

# INTERNAL DATA CENTER PORTFOLIO

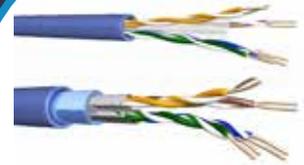




Ultra High-Density System



310 Series ODF



UC DATA Copper Cable



Trunk / Harness Cable



UC CONNECT Patch Panel



# MEET-ME ROOM SOLUTIONS



## 310 Series ODF

- 5 184 LC port capacity
- 19 x 2U sub-rack capacity
- 36 x 1U sub-rack capacity
- Integrated internal yellow ducting
- Offset cable slack management (max 4.1m)



Product sheet



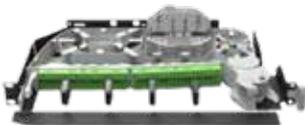
## Sub-Rack Systems

### Splice & Patch

- Up to 144f
- 4 x 36f swing out trays per 1U
- Side or rear cable entry



Product sheet



### Splice only or Patch Only

- 96f using 1.6mm patch cords
- 96f LC splice only



### Mass Fusion Splice

- up to:
  - 864f (FlexRibbon™)
  - 384f (stranded fibre in 1U)
- 2-Sided cable entry



## Fibre Management Accessories

### Fibre Optic Storage Tray

- Slide out for ease of access
- LH and RH access
- Pre-fitted cable saddles



Product sheet



### Cable Slack Management

- For both 600mm and 300mm ODF

# OPTICAL FIBRE DUCTING SOLUTIONS

Straight Duct



Breakouts



Reducers



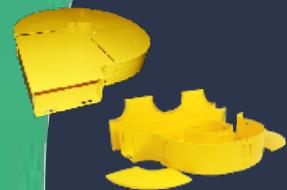
Joiners



Express Outlets



Fibre Storage Loops



Tees, Elbows & Crosses



Drop-Off Solutions



Tubing



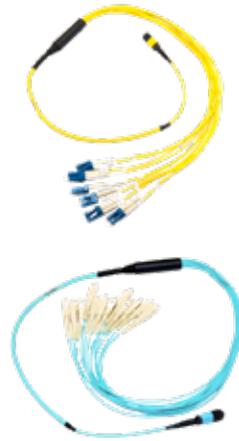
Product sheet



# WHITESPACE SOLUTIONS

## Trunk / Harness Cable

- Utilising all of our UC Future Cable portfolio
- Multiple fiber counts, designs up to 1728 core, with multiple MTP connector breakouts
- Base 8, 12, 16, 24 or 36 available
- Fully tested for low insertion loss and back reflection on every connector and attenuation loss
- Fully bespoke with short lead times
- 16f VSFF connector options available



Product sheet

## Patch Cords

- Full fibre optic pigtail and patch cord portfolio available including LC, SC, ST in OM1-5 and G657.A1 & G657.A2
- European manufactured and CPR compliant patch cord range
- Simplex 1.6mm > 3.0mm up to B2<sub>ca</sub>
- Duplex in zipcord or flat-twin up to B2<sub>ca</sub>
- Duplex Uniboot in 2.0mm B2<sub>ca</sub>
- All manufactured using Prysmian produced fibre
- Full factory testing



Product sheet

## UC Connect Pigtails

- Utilising Prysmian 900µm easy stripping semi-tight buffered fibre
- Can be supplied with many different connector types such as FC, SC, ST, E2000, LC, DIN and others on request
- Available in OS2 and OM3-OM5
- UPC and APC available
- 100% optically tested



Product sheet

# WHITESPACE SOLUTIONS



## Patch Panel

- SystemLC, ST, SC
- Single & Multimode
- Colour-coded adapters
- 6-way up to 9 6-way
- Supplied with all required accessories – Splice Cassettes, Splice protectors, Glands, Warning Label, Earth Bonding Kit, Splice tray fibre identification label, Cage Nuts
- Built to order



Product sheet



## Multimedia System

- Available as LC-MPO, LC Splice or RJ4
- Up to 120 LC ports in 1U
- Available in OM3, OM4 & OM5 as well as G657.A1 & G657.A2
- Up to 20 RJ45 Ports using copper cassettes
- Compact size for installation inside shallow depth racks
- One click latch technology for easy installation
- Front module access



Product sheet



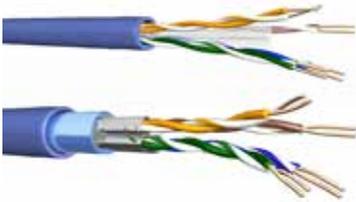
## Ultra High-Density System

- Ultra high-density fiber panels (144f LC)
- Tool-less technology Front and rear cassette loading
- Up to 12f per cassette Fully customisable sub-trays can accept base 8, 12 or 24
- Factory tested pre-terminated cassettes
- 1U, 2U and 4U Chassis



Product sheet

# COPPER SOLUTIONS



## UC DATA Copper Cable

- Cat. 6 to Cat. 8.2
- U/UTP, U/FTP, F/FTP, S/FTP
- Available in B2<sub>ca</sub>-s1a, d1, a1 / C<sub>ca</sub>-s1a, d1, a1 / D<sub>ca</sub>-s2, d2, a1 / E<sub>ca</sub> / F<sub>ca</sub> euroclass



Product sheet



## UC CONNECT Patch Panel

- Cat. 6 / Cat. 6A
- 19 inch rack mount
- Unshielded / Shielded
- Flat or angular, 24 and 28 ports



## Keystone Jack

- RJ45 Modular jack IDC Contact Cat. 6 and Cat. 6A
- Shielded and Unshielded version
- Tool Less version
- Field termination plug also available



## UC CONNECT Pre-Terminate Copper Trunk Cable

- RJ45-RJ45 Pre-Terminate Trunk Cable
- Cat. 6 / Cat. 6A U/UTP & F/FTP



## UC CONNECT Dual Boot & Slim flex Copper Patch Cord

- Cat. 6 and Cat. 6A stranded patch cord, LSZH
- Shielded 26AWG and Unshielded 24AWG
- 50µ gold plating contact

# CROSS CONNECT

## Medium Density (up to 432f LC)

- e.g. 6x 144F MTP/MPO trunk cables to bottom cluster of FTPs

- 72 x MTP/MPO12 trunk cables exit/enter from top RHS to customer equipment racks

IntelliFOX Blade



2 mm uniboot duplex patch cords routed between IntelliFOX blade and MTP-LC/A trays  
Left side access

IntelliFOX Blade



- 6 x 144F FTP's shown in top cluster = scalable to 864F (minimum proven capacity)

- MTP-LC transition cassettes 144F per RU  
This could potentially serve as a cross connect point and breakout to LC for these services  
- 36F horizontal cassettes x 4 per RU = 144F

- Patch cord routing and storage module

- Preterminated MTP/MPO-LC cabling

EQUIPMENT RACK

HypaFOX 1 RU tray with 4 x 36F LC cassettes or HypaFOX Z-Slim



Patch with LC duplex uniboot push/bull tab cords to equipment



Product sheet

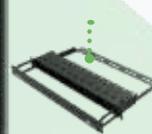
## All the way up to Ultra High Density (5,184LC)

- LC duplex patch cords between ODF 1 & 2

- MTP/A 144F trunks Female - Female Polarity A. Haul sock one end

EQUIPMENT RACK

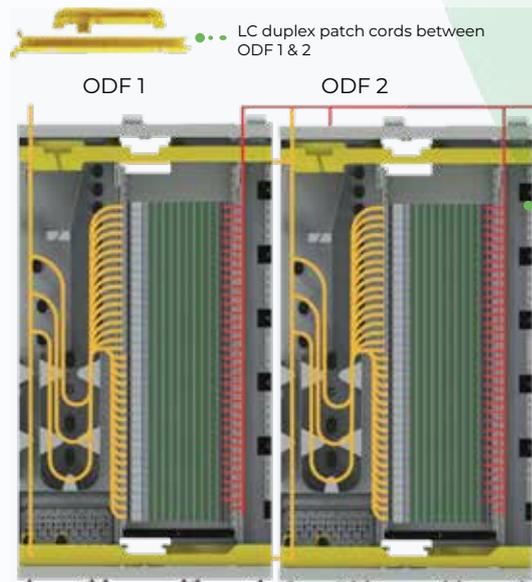
HypaFOX 1RU tray with 4x 36F LC cassettes



Patch with LC duplex uniboot push/bull tab cords to equipment



Product sheet



- MTP preterm trunk cables (12F, 24F, 36F or 144F, etc)  
Top right exit from ODF top

- IntelliFOX Blade
- 1 RU Modular Chassis with 4 x 36 FLC-A-MTP cassettes (144F)

- 36 x Scalable 1RU 144F FTP's (4 x 36F cassettes)

- Total port density of 5,184 LC/A fibres 144F per RU deployment



**Prysmian câbles et systèmes France**  
**Head office**

23 avenue Aristide Briand - BP 801 - PARON - 89108 SENS Cedex / France  
+33 (0)4 72 46 73 99 - [infocables.fr@prysmian.com](mailto:infocables.fr@prysmian.com)



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