

DATA CENTRES

UK Product Catalogue





prysmian

Comprehensive Cable Infrastructure for Data Centres

Speed, capacity, reliability.

The three essential performance requirements for data centres around the world: all delivered only with effective cable systems.

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.

High voltage power cable supports operational and cooling needs; high speed data transmission cables handle immense bandwidth in miniature fibre optic cables; ducting, racks and components provide orderly and safe cable management. With manufacturing, customer service and technical support teams right here in the UK, Prysmian offers local expertise supported by global excellence.

Prysmian connects and is connected



30,000 people

Worldwide. With experts ready for every project.



50+ countries

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



108 manufacturing plants

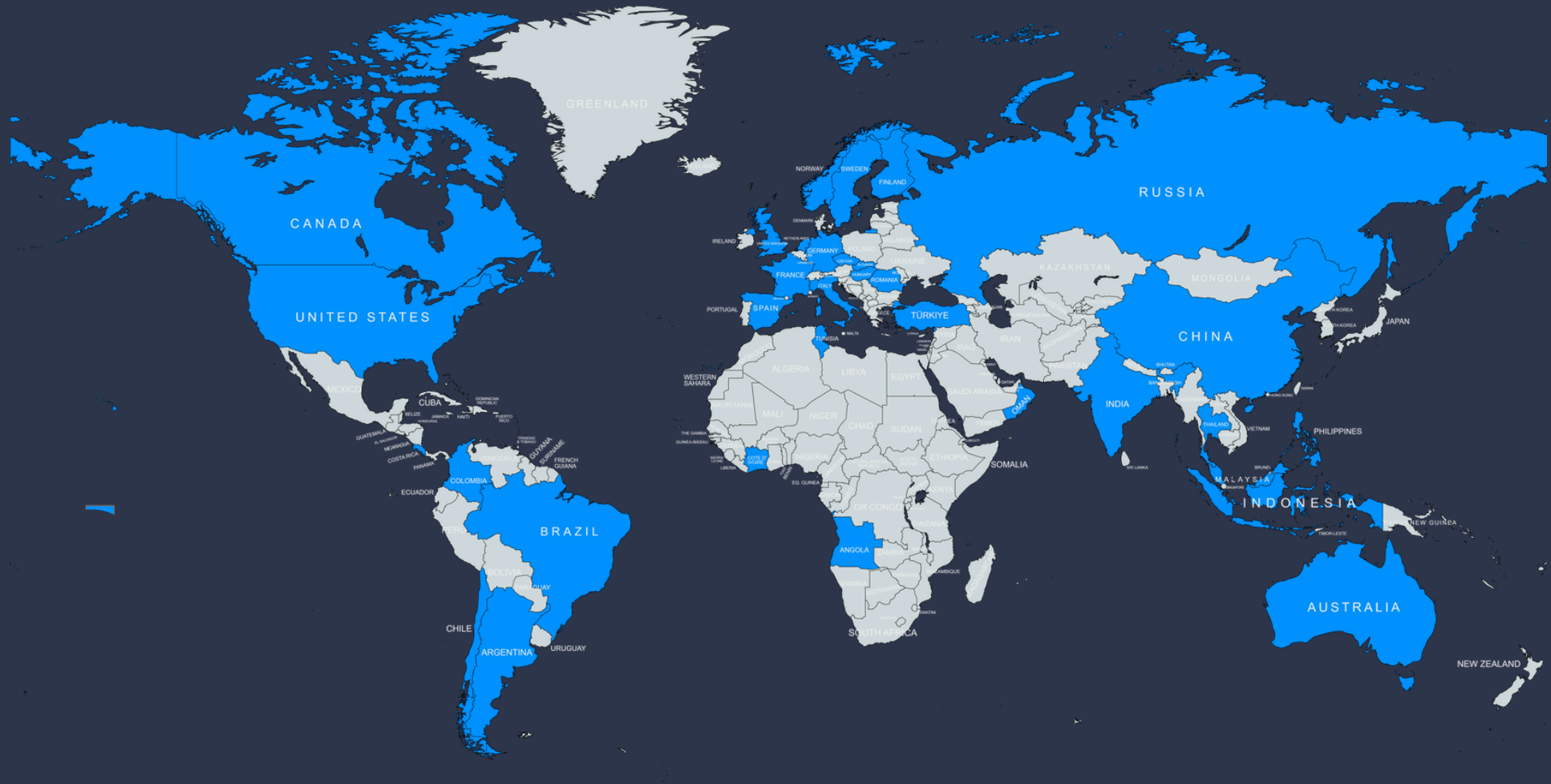
Ensuring we maintain some of the industry's shortest lead times.



26 R&D centres

Innovation and excellence – across every aspect of our business.

Always close to our customers - Prysmian global presence

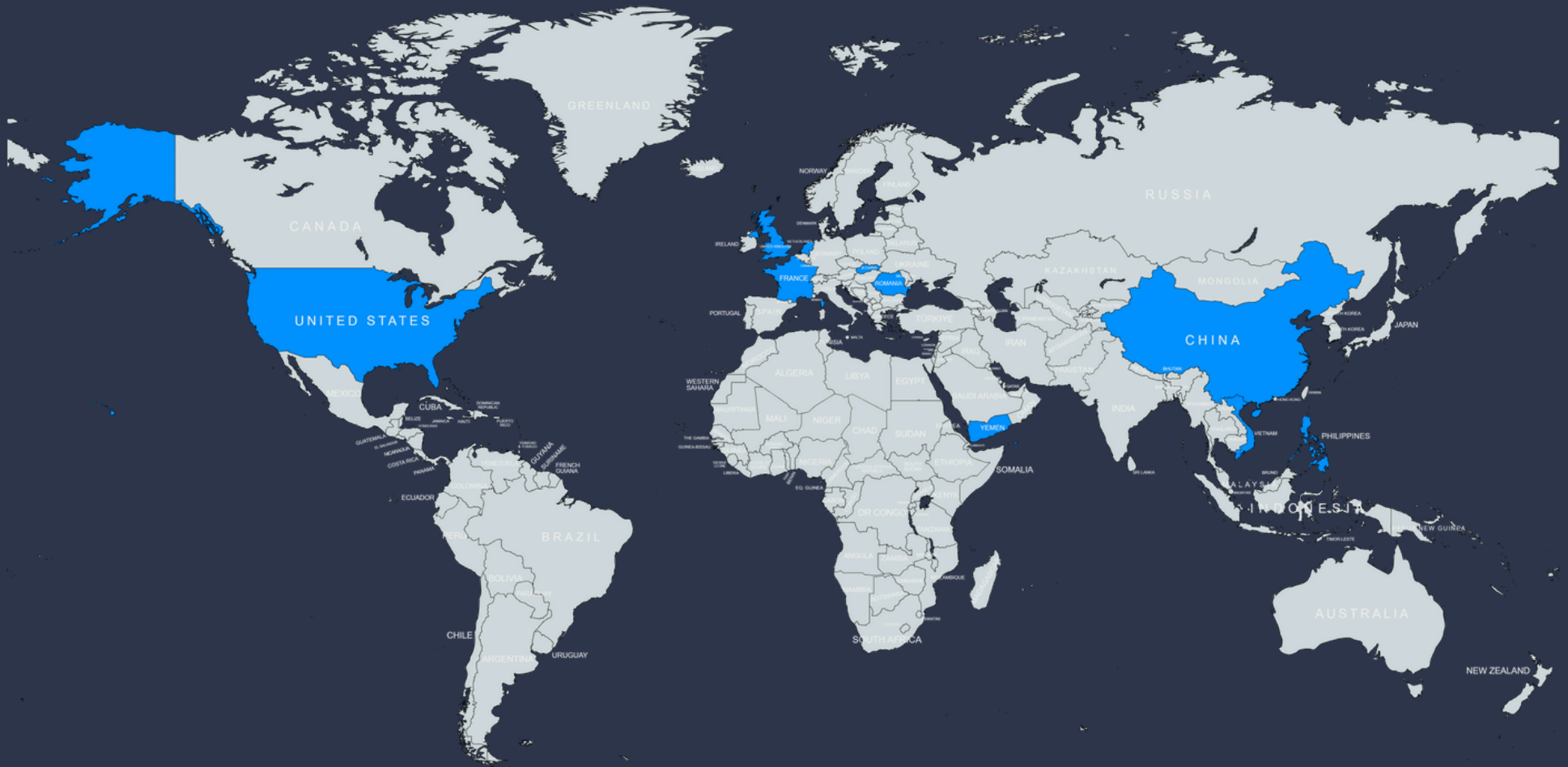


North America: 24 Plants
Latin America: 10 Plants

EMEA: 56 Plants

APAC: 15 Plants

Always in control of the process - Digital Solutions operations



USA:

- Connectivity Manufacture
- Singlemode Fibres
- 16f Ribbon
- FlexRibbon
- MMC/16f Cable



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



China:

- Fibre Manufacture
- Duplex/MPO Terminations



Vietnam:

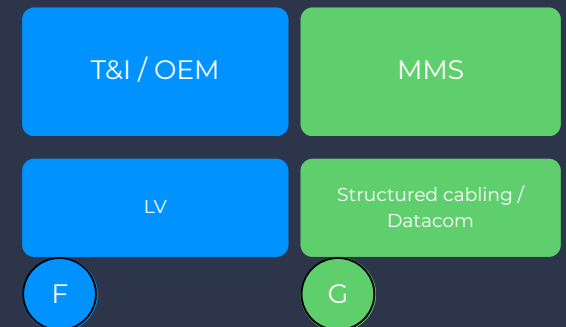
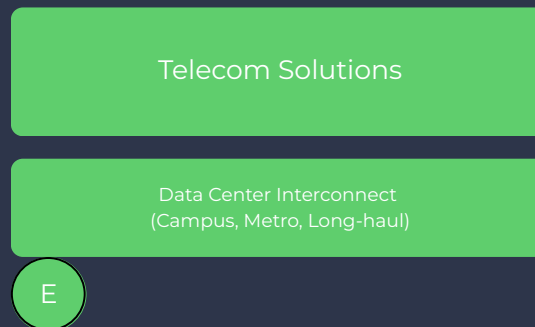
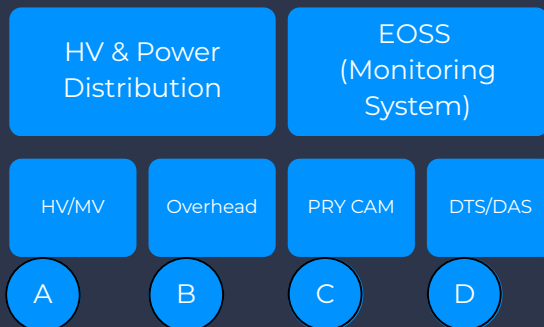
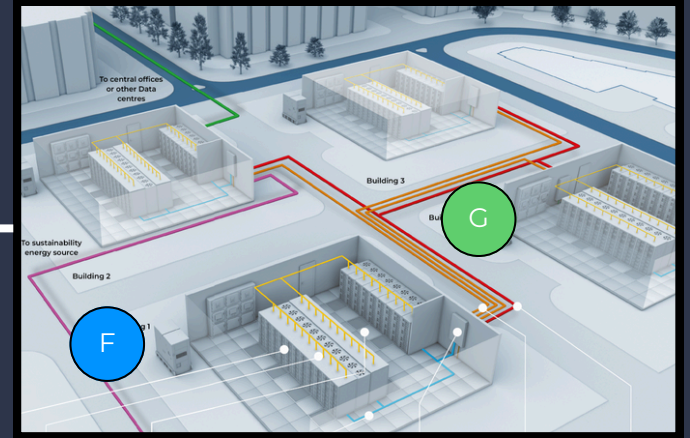
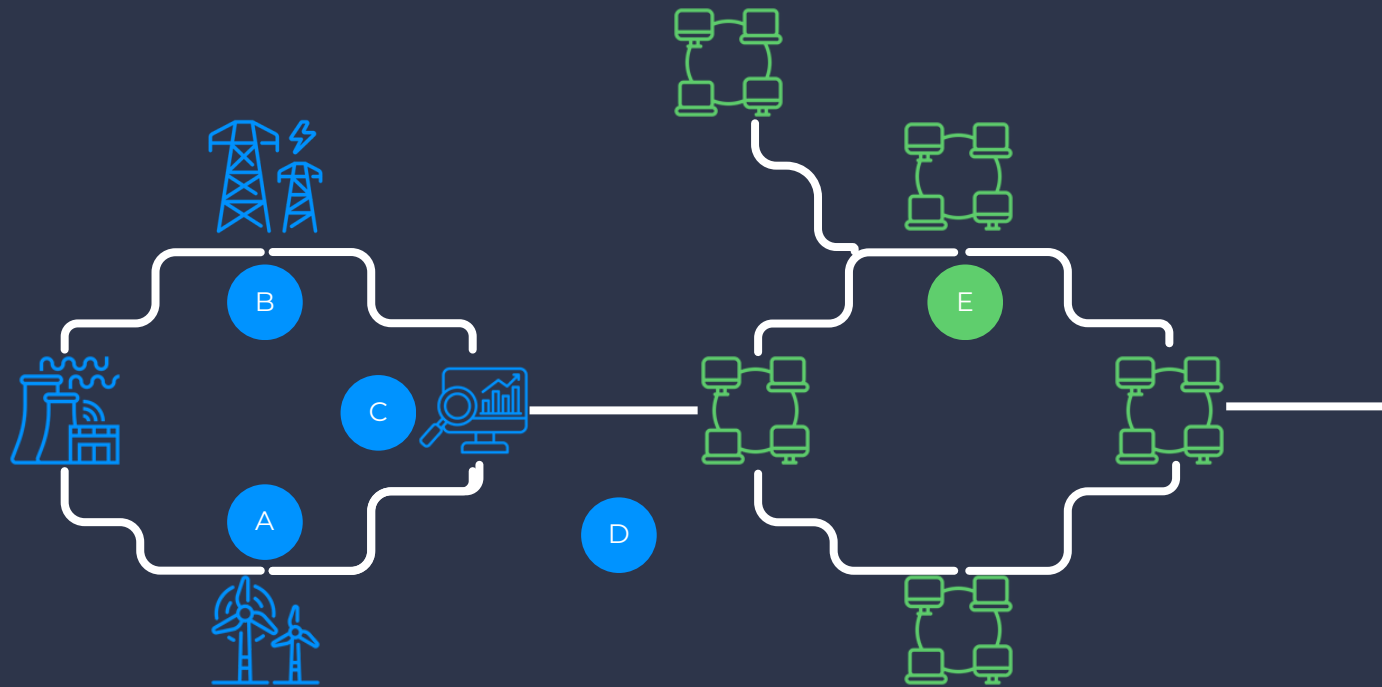
- Duplex/MPO Terminations
- Cassette Manufacture



Phillippines:

- Duplex/MPO Terminations
- Cassette Manufacture

Prysmian Global Experience of Data Centres



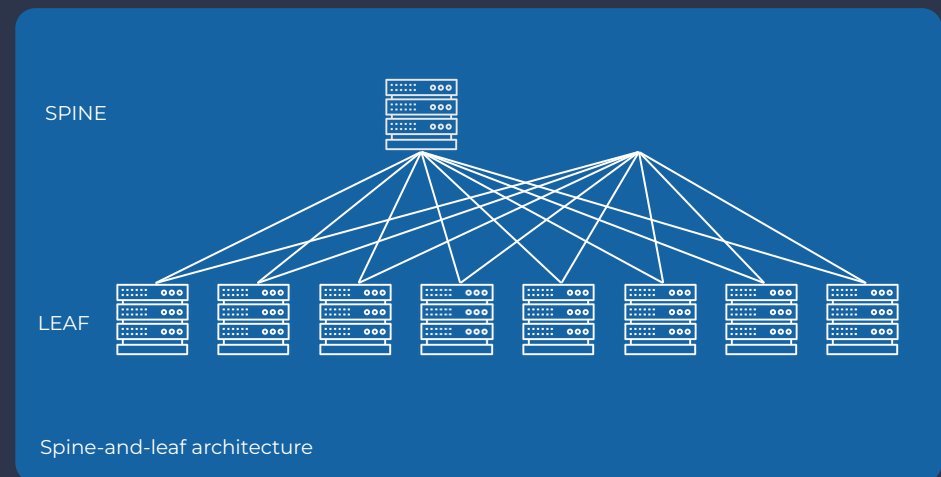
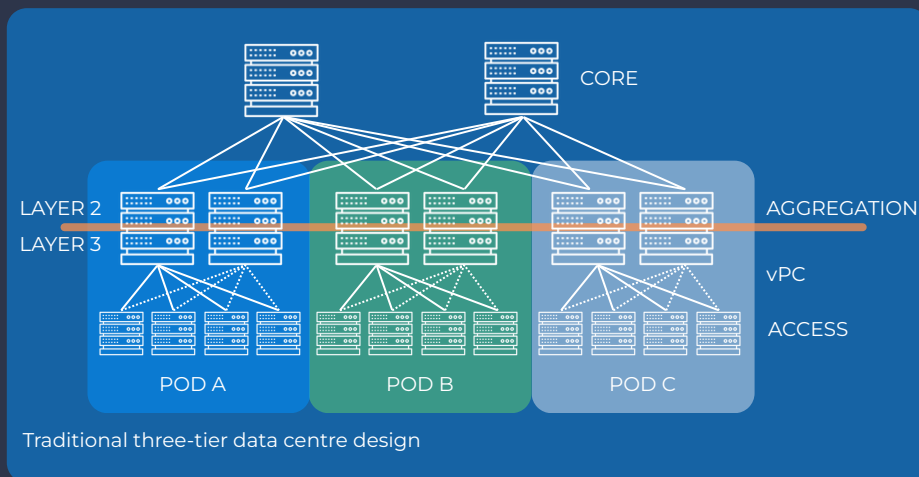
Data Centre Architecture

There are various architectures available for network designers to select from.

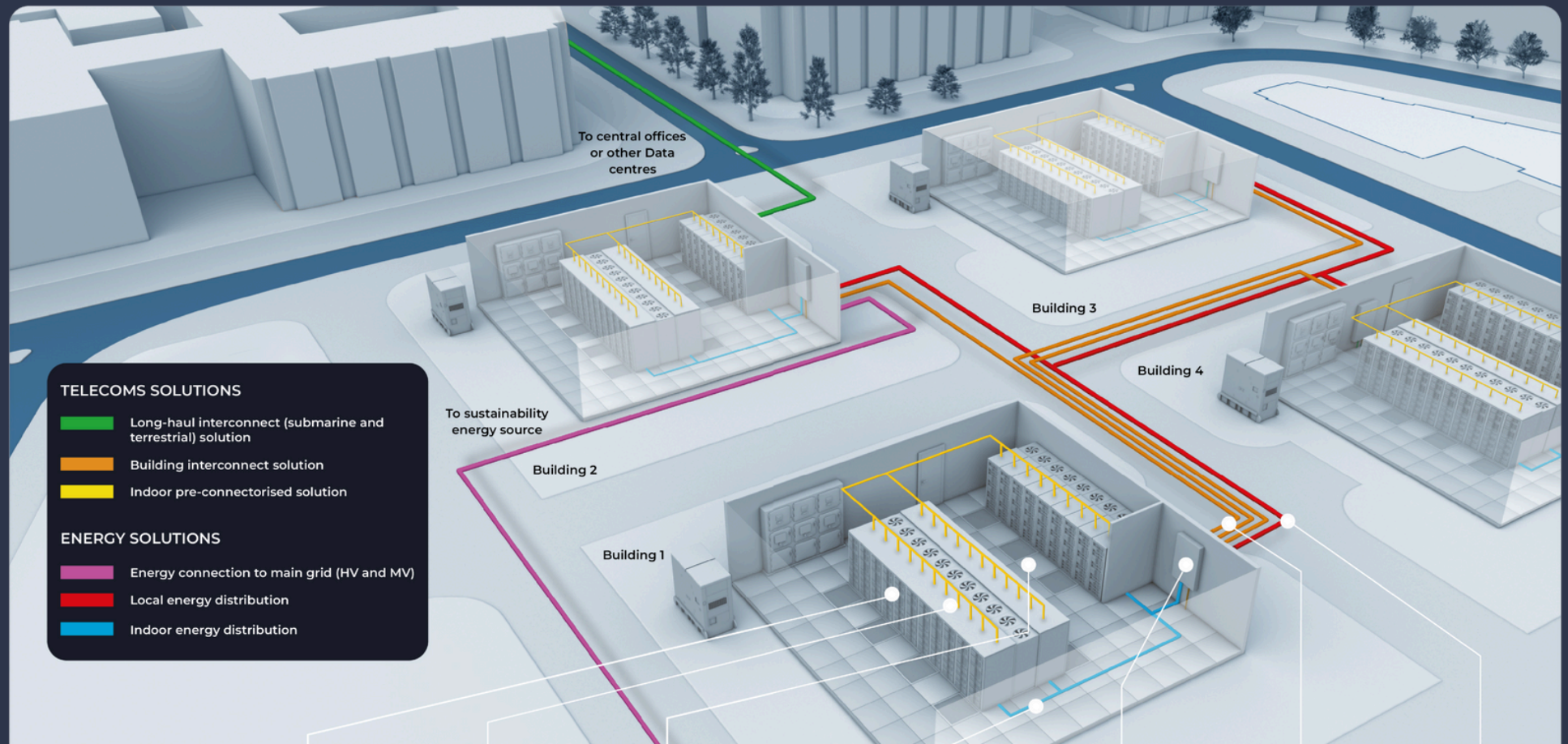
The choice you make will depend on several factors, including the current size of your data centre, your future expansion plans, whether you are setting up a new installation or upgrading an existing legacy system, and how rapidly you anticipate your data centre requirements to evolve.

The three primary approaches in data centers are:

- **Direct Connect** (Centralised) or direct connections between two pieces of equipment
- **Zone Distribution**, which includes End-of-Row (EoR), Middle-of-Row (MoR), and Point-of-Delivery (PODs)
- **Top-of-Rack** (ToR)



Prysmian's Complete Data Centre Overview



UHD connectivity



Prysmian's UHD distribution solution



Pre-Connectorised UC Connect



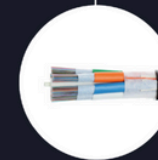
Trunking solutions



Prysmian Energy LV



Cable monitoring technology



FlexRibbon™

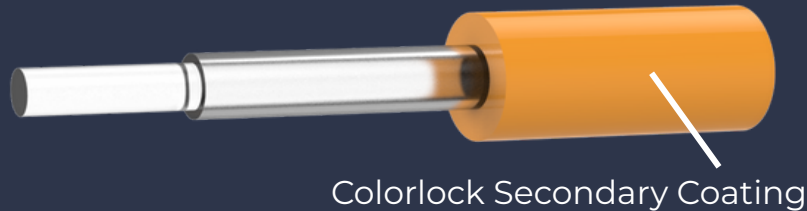


Prysmian Energy MV + Prysmian Electronics

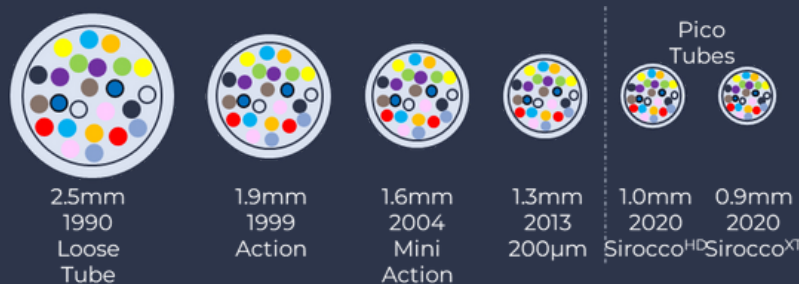
Prysmian - always driving the evolution of Fibre & Cable solutions

Prysmian COLORLOCK-XS™

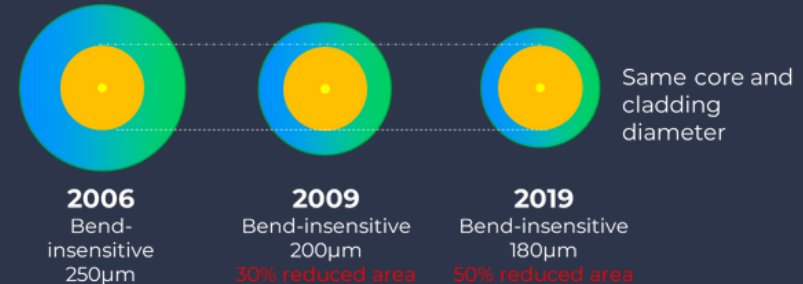
Mass Coloured Secondary Layer reduces individual fibre density by 10µm



Using new PBT material to create thinner wall tubes combined with smaller diameter fibres, Prysmian developed “Pico Tubes”.



Prysmian was the first to launch 200µm in 2009 and to launch 180µm in 2019

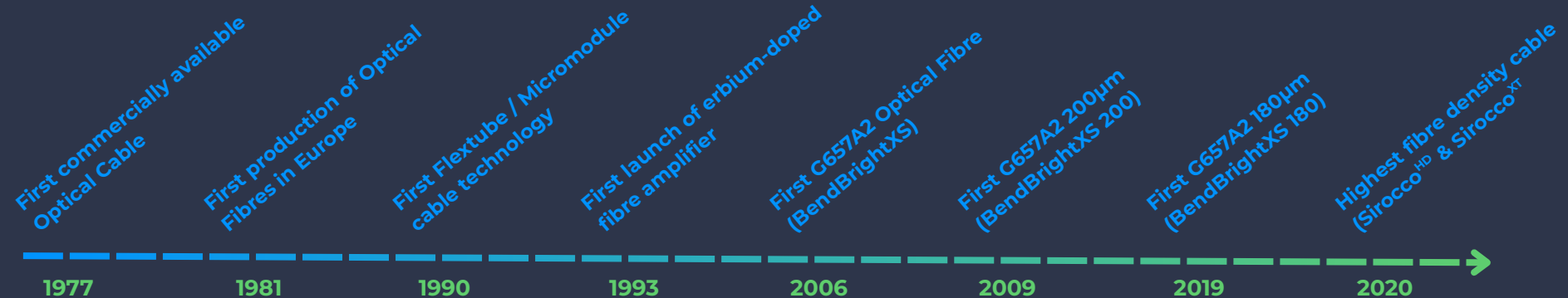


Two new ranges, named **Sirocco^{HD}** and **Sirocco^{Extreme}** offered world record cable diameters and fibre densities, benefitting TCO and the carbon footprint.

Sirocco^{HD}
200µm
36f-864f
OD: 9.5mm @864f



Sirocco^{XT}
180µm
36f-864f
OD: 8.1mm @ 864f



Evolution of Data Centre Interconnect

Sirocco Extreme



BendBright technology, 180um

Gel-filled for increased water protection

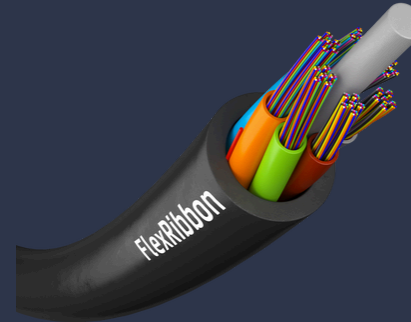
Up to 864f in 11.5mm

Sirocco HD



BendBright technology, 200um

MassLink™

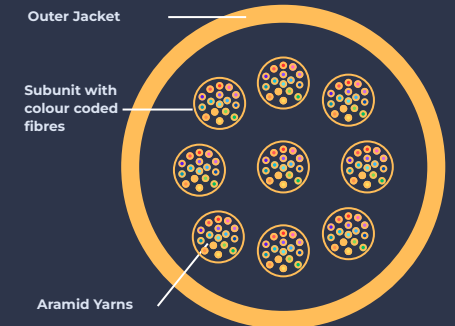


BendBright technology

Ribbon construction, highest fibre count possible

Mass fusion splicing

Micro Fibre Cable (MFC)



144f with 16 x 250um Fibres per 2.4mm Subunit

Internal/External

Prysmian's High-Performance Fibre Optic Solutions:

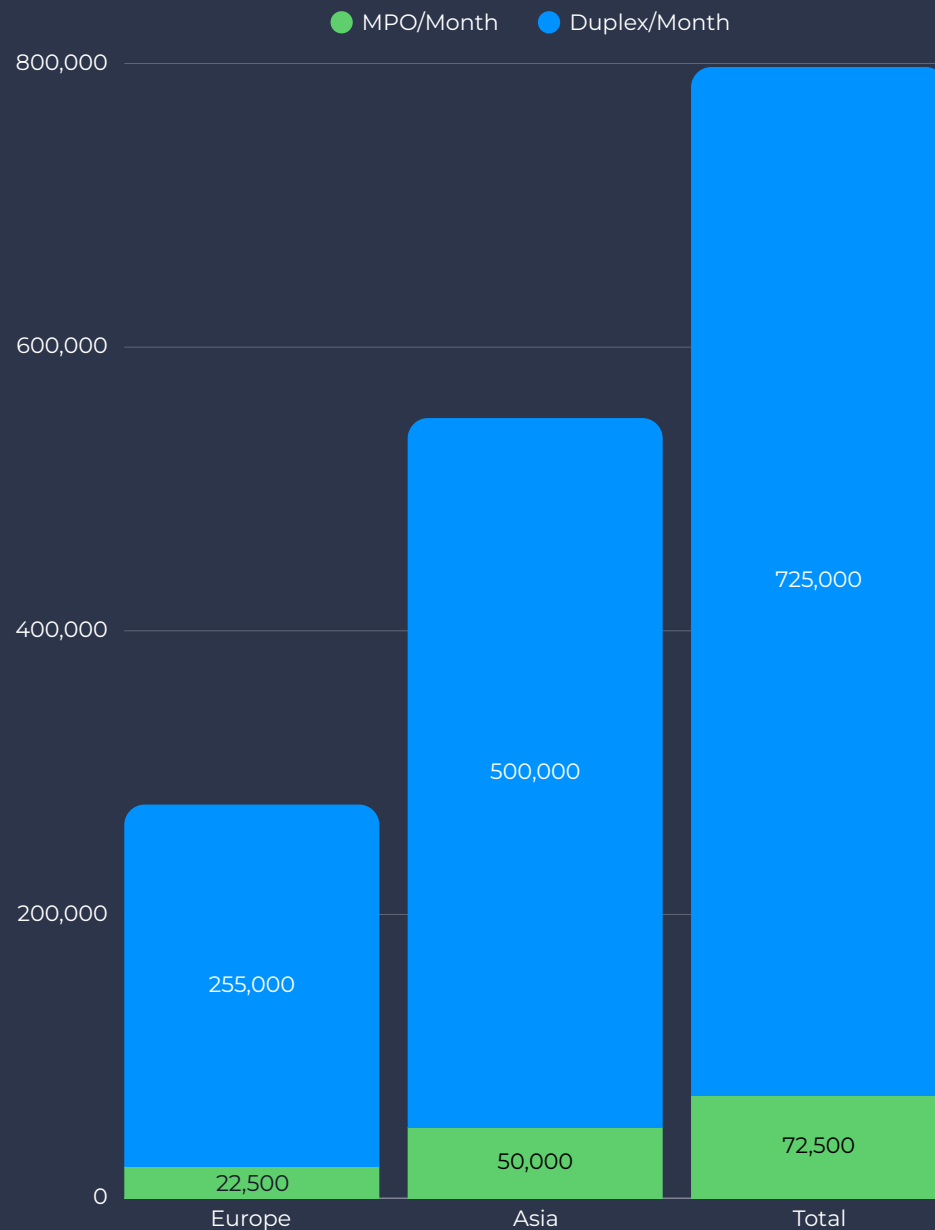
- High Fibre Optic Cables: Ensure seamless connections within data centre campuses, between cities, and for long-haul ainterconnectors.
- Sirocco Miniature Air-Blown Cables: Offer record-breaking fibre density in minimal cable diameters, optimising existing duct infrastructure.
- FlexRibbon: Combines high packing density with mass fusion splicing using bend-insensitive fibre.
- Subsea Cable Networks: Prysmian installs, monitors, and maintains these networks, with significant investment announced in January 2025.

50+ YEARS

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.

Fibre Termination Capacity



- **Advanced Cable & Connectivity Solutions:**
Prysmian manufactures high-performance cable and connectivity systems designed for speed, flexibility, and quality across diverse applications.
- **High-Density MPO Cables**
Supports up to 288 fibres, ideal for data centres and high-capacity networks.
- **Certified & Compliant**
All MPO cables are CPR-classified, meeting stringent European safety and performance standards.
- **Global Manufacturing Footprint**
Fast turnaround from European facilities and cost-effective volume production from Asia-Pacific sites.
- **Premium Connectivity**
Uses Certified US Conec connectors, ensuring consistent, high-quality performance.



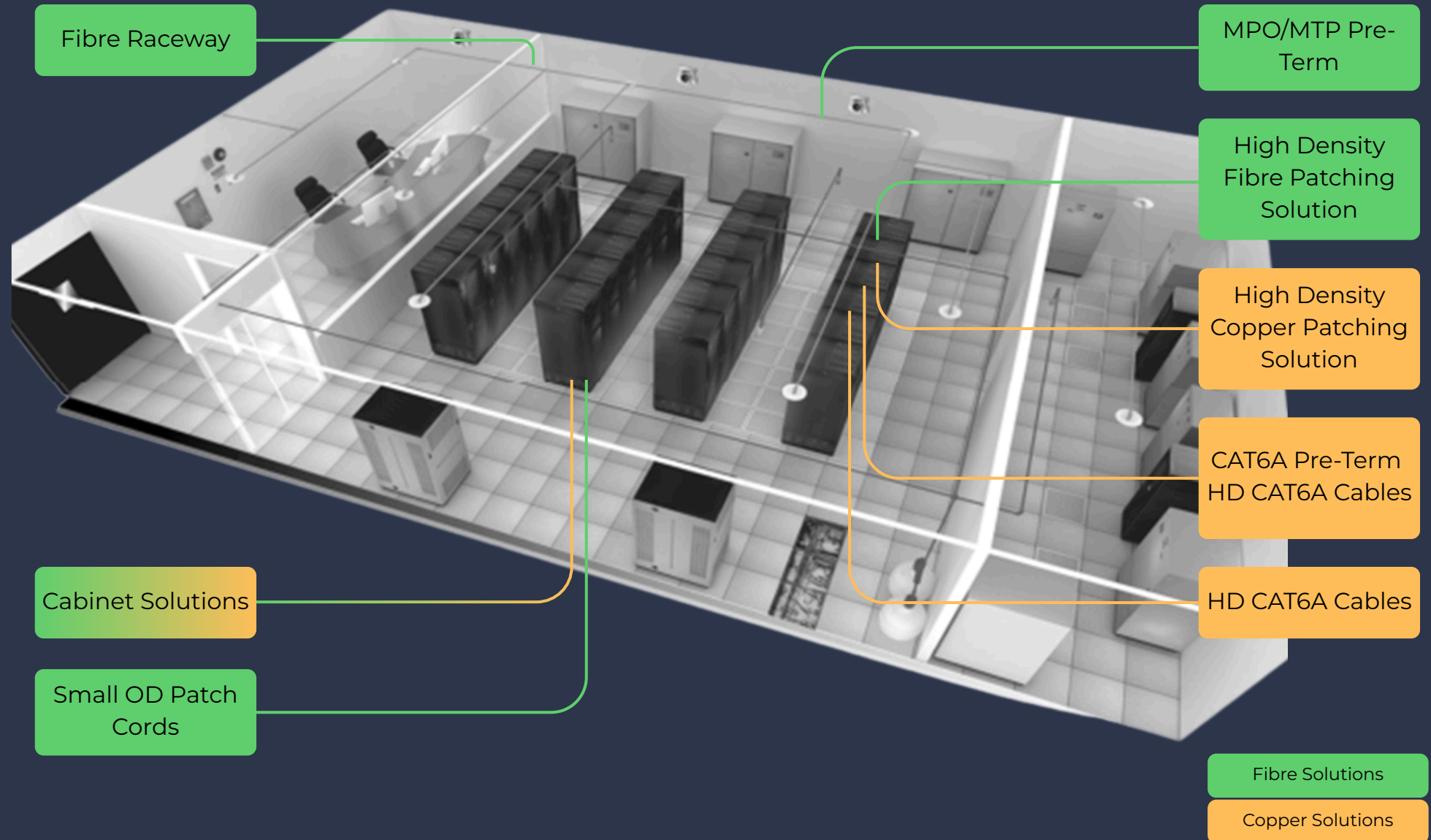
Data Centre Internal Connection Solutions

This critical area of a data centre needs accurate cable management with optimal use of limited space.

Since its acquisition of Warren & Brown Technologies in 2024, Prysmian has been able to offer a comprehensive range of cable management systems to complement our fibre optic cables. Combining the highest quality optical fibre technology with efficient cable management and all associated components allows customers to source a complete cable system from a single manufacture.

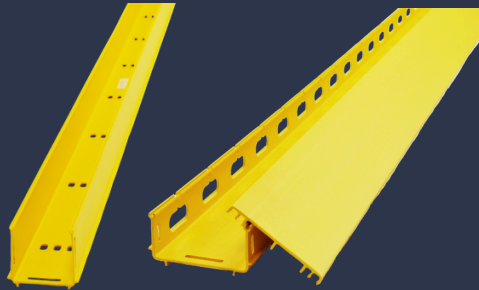
A bespoke design service will provide detailed layouts and component lists for fully CPR compliant duct raceways within 72 hours.

Internal Data Centre Portfolio

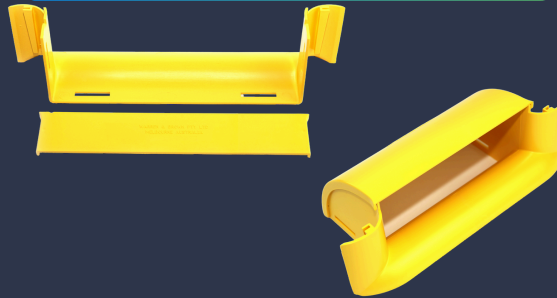


Optical Fibre Ducting Solutions

Straight Duct



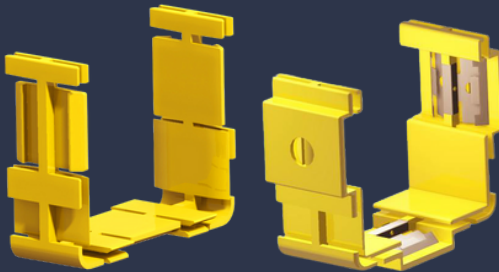
Breakouts



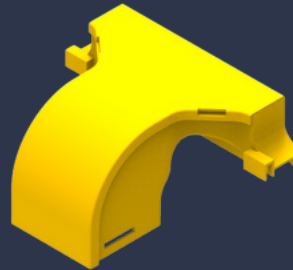
Reducers



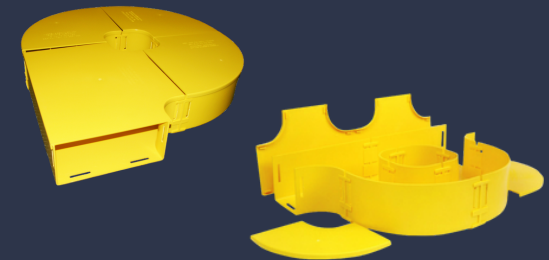
Joiners



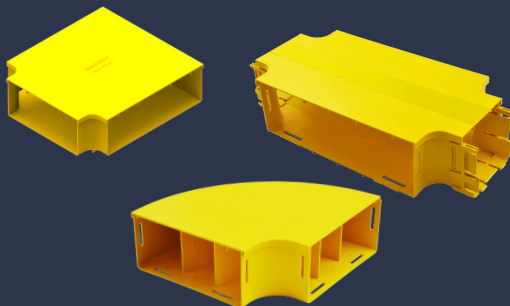
Express Outlets



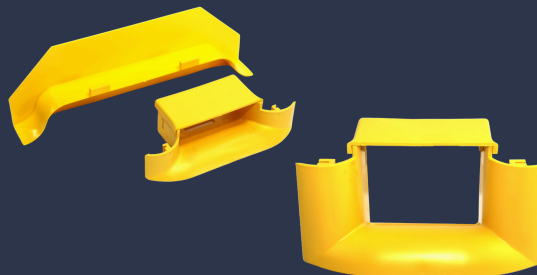
Fibre Storage Loops



Tees, Elbows & Crosses



Drop-Off Solutions



Tubing



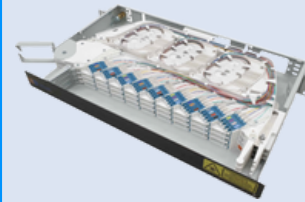
Meet-Me Room Solutions

310 Series ODF



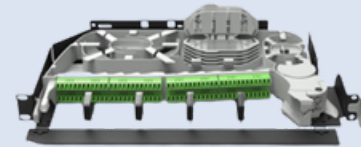
- 5184 LC port capacity
- 19 x 2U sub-rack capacity
- 36 x 1U sub-rack capacity
- Integrated internal yellow ducting
- Offset cable slack management (max 4.1m)

Sub-Rack Systems



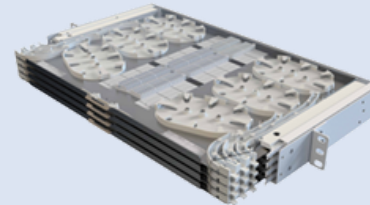
Splice & Patch

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



Splice only or Patch Only

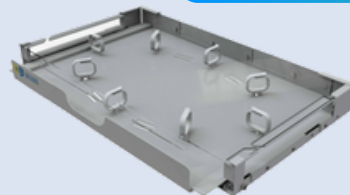
- 96f using 1.6mm patch cords
- 96f LC splice only



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



Cable Slack Management

- For both 600mm and 300mm ODF

Whitespace Solutions

Patch Panel



- LC, ST, SC
- Single & Multimode
- Colour-coded adapters
- 6-way up to 96-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 and stocked in the UK

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

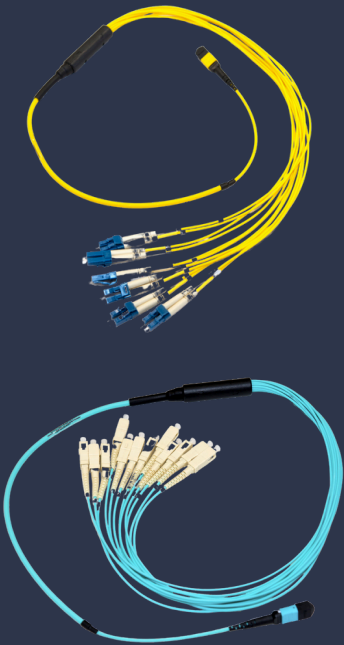
Ultra High-Density System



- 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

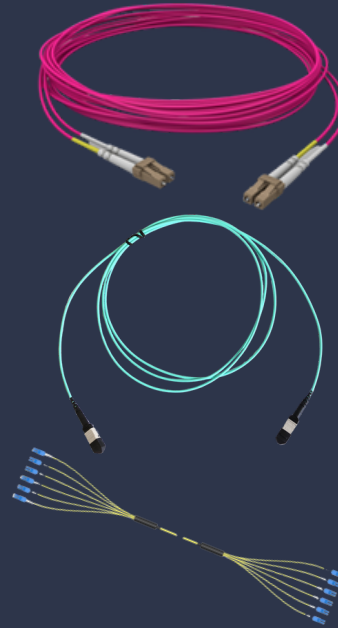
Whitespace Solutions

Trunk/Harness Cable



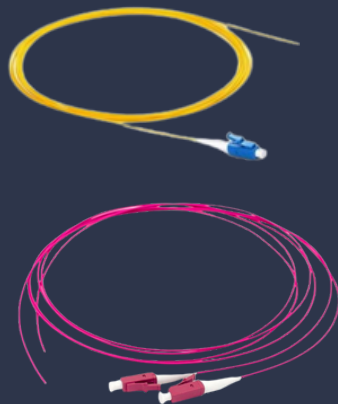
- Utilising all of our UC Future Cable portfolio
- Multiple fiber counts, designs up to 1728 core, with multiple MTP connector breakouts
- Base 8, 12, 16, 24 or 36 available
- Fully tested for low insertion loss and back reflection on every connector and attenuation loss
- Fully bespoke with short lead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

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 B2ca
- Duplex in zipcord or flat-twin up to B2ca
- Duplex Uniboot in 2.0mm B2ca!
- All manufactured using Prysmian produced fibre
- Full factory testing

UC Connect Pigtails



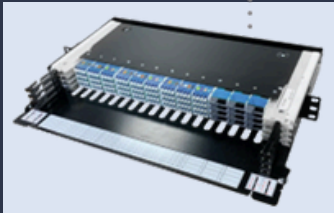
- Utilising Prysmian 900um easy stripping semi-tight buffered fibre.
- Can be supplied with many different connector types such as FC, SC, ST, E2000, LC, DIN and others on request
- Available in OS2 and OM3-OM5
- UPC and APC available
- 100% optically tested

Cross Connect Medium Density (up to 432f LC)

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

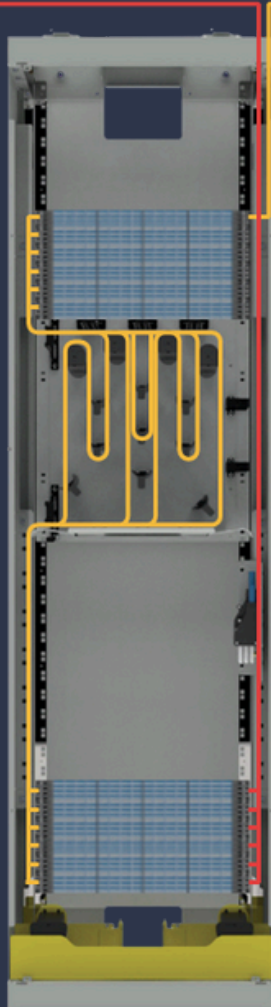
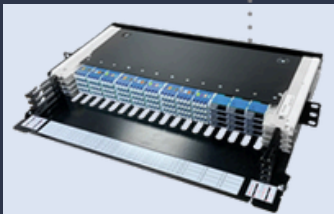
72 x MTP/MPO12 trunk cables
exit/enter from top RHS to
customer equipment racks

IntelliFOX Blade



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

IntelliFOX Blade



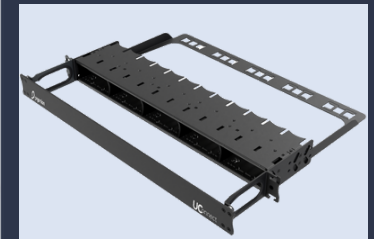
6 x 144F FTPs shown in top cluster
= scalable to 864F
(minimum proven capacity)

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



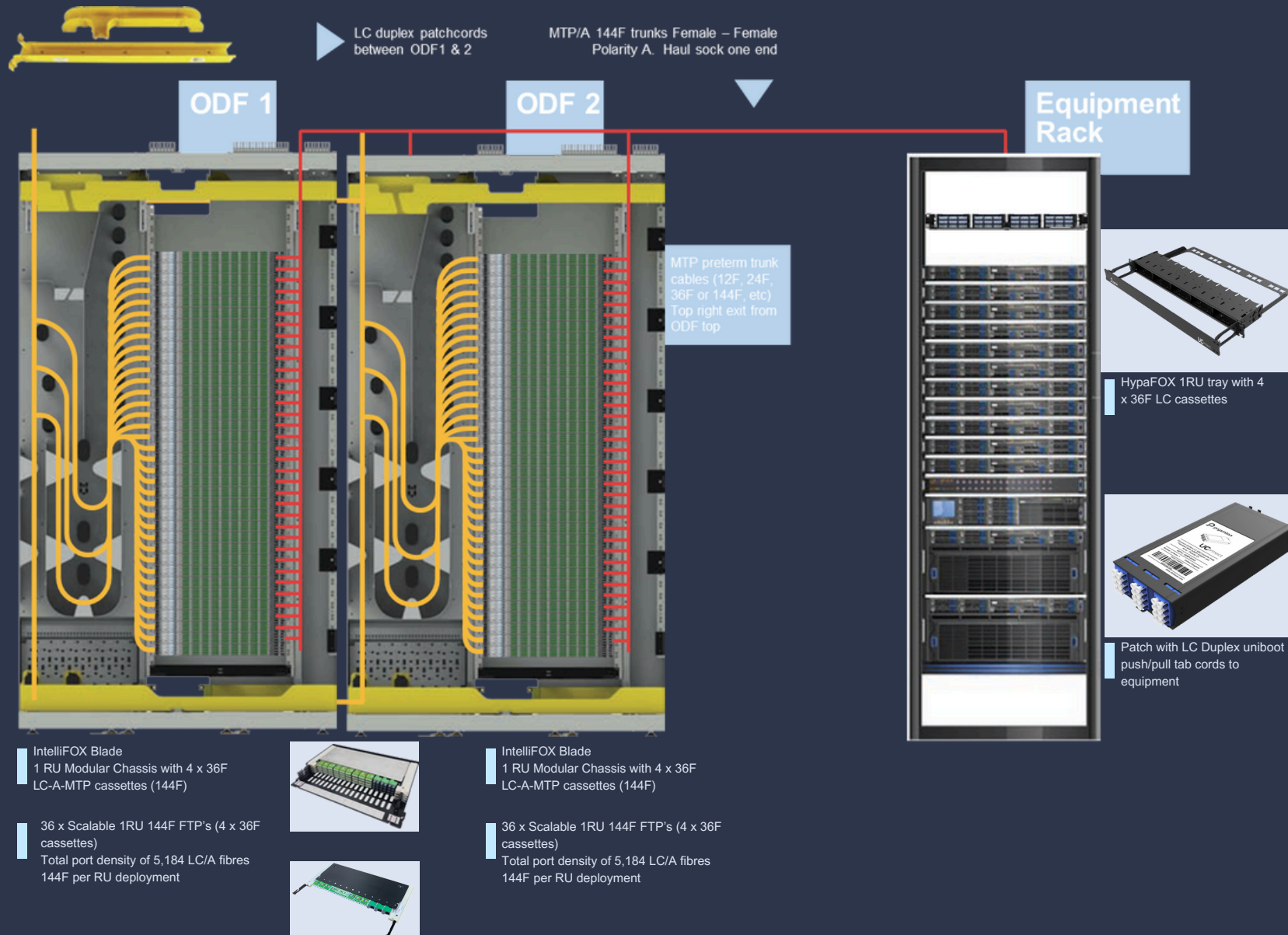
HypaFOX 1 RU tray with
4 x 36F LC cassettes
OR
HypaFOX Z-Slim



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

Cross Connect

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



With over 140 years' experience in the cable industry, we have the knowledge and expertise to deliver exceptional solutions.

We have 30+ manufacturing facilities around the world, meaning our supply chain is unrivalled.

We offer full sales support from enquiry right through to after sales, providing great peace of mind.

Visit our website for more information:
uk.prysmian.com/markets/data-centres



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