

# Data Centre Solutions

Enabling Digital Continuity





Connect to Lead

[www.omancables.com](http://www.omancables.com)

# The One-Stop Shop for Data Centres

## Comprehensive Solutions for Seamless Operations

- Sustainability . . . . . 4  
Leaders in Energy Cable Systems
- E Path . . . . . 8  
Setting new Standards with E Path
- Data Centre . . . . . 10  
An Invaluable Business Growth Opportunity
- Energy Cables for Data Centres . . . . . 12  
Engineered for Excellence
- Low Voltage Cables for Data Centres . . . . . 14  
Keep your Data and Energy Flowing Seamlessly
- OCI-UltraFlex . . . . . 16  
Flexibility Without Compromise
- Fire-resistant Cabling Solutions . . . . . 18  
For Critical Applications
- Digital Solutions . . . . . 19  
Engineering Smarter Digital Futures
- Solar PV Solutions . . . . . 28  
Specialised Cables Designed to Maximise Clean Energy
- Battery Energy Storage Systems . . . . . 30
- Advanced Monitoring Solutions . . . . . 31  
EOSS  
OMHERO
- Network Components . . . . . 34  
Advanced Solutions for Managing Complex Environments
- Research & Development Centres . . . . . 36  
Global Innovation Powering Regional Excellence
- Quality Without Compromise . . . . . 37  
Our Commitment

# Leader in Energy Cable Systems

From Energy to Data, Engineered for Continuous Performance.

We deliver high-quality, technologically advanced cable solutions designed to support long-term growth and profitability. Our commitment to excellence and continuous innovation enables sustainable performance for every customer we serve.

As a trusted partner, we operate with integrity, responsibility, and a clear purpose. Guided by strong values, Oman Cables stands as the leading solutions provider in the region—offering an extended portfolio powered by the global expertise of Prysmian, the world's number-one cable manufacturer.



## CARBON FOOTPRINT

Oman Cables is committed to reducing its environmental impact across operations, supply chains, and product lifecycles. The company focuses on improving energy efficiency, optimizing production processes, and exploring renewable energy solutions. Through the development of low-carbon and high-performance cable solutions, Oman Cables supports customers in enabling the global energy transition and digitalization while continuing to deliver reliable, quality products, services and solutions.



## OUR COMMITMENT

Our commitment to a low-carbon future is reflected in how we design, manufacture, and deliver our solutions without compromising in quality or performance. Sustainability is embedded in our daily operations, with a strong focus on environmental protection, workplace safety, and impactful engagement with our local communities.



## OUR GOALS

Our sustainability journey is shaped by four core ambitions: Climate Change, Social, Innovation, and Role Model. Together, they guide our approach to supporting a low-carbon future, fostering an inclusive workplace, embedding sustainability into innovation, and upholding responsible business practices across our operations and value chain.

# Where Sustainability Meets Innovation

Pioneering Cable Solutions for a Brighter Future



At Oman Cables, sustainability is the driving force behind everything we do. Our eco-friendly cable solutions minimize environmental impact while perfectly aligning with our customers' needs. We're leading the charge in green innovation, optimizing operations for resource efficiency and promoting responsible practices throughout our supply chain. Oman Cables isn't just about making cables, it's about crafting a sustainable future in technology.

Join us in our quest for a greener world, where technology and environmental responsibility go hand in hand.

## Did you know?

Oman Cables is leading the charge in green innovation. By optimising operations for resource efficiency and promoting responsible practices throughout the entire supply chain, we're crafting a sustainable future in technology.

## Our Sustainability Priorities

- Enable accessible energy deployment and innovation.
- Promote responsible resource use and sustainable supplies.
- Support community and people development.



## Local Leadership. Global Impact.

Oman Cables, together with Prysmian, driving sustainability and responsible business practices forward.



**Sustainable Development Goals** – Prysmian's corporate framework is aligned with the 17 Sustainable Development Goals (SDGs) defined in the UN's 2030 Agenda. The SDGs aim to foster a better future for people and the planet.



**Science Based Goals** – Prysmian pursues an emissions reduction strategy in alignment with the Science Based Targets Initiative (SBTi), an organisation committed to voluntary corporate climate action.



**Responsible Mica Initiative** – In 2021, Prysmian was the first company in the cables sector to join the Responsible Mica Initiative (RMI), a non-profit organisation dedicated to the elimination of child labour and exploitative working conditions in the mica supply chain.

# Setting New Standards with E PATH

An invaluable business growth opportunity fueled by sustainability.

**E Path**

Oman Cables proudly introduces E Path, a pioneering eco-labelling system tailored specifically for the cable industry. This innovative approach, built upon EU-ecolabel standards, sets a new benchmark for sustainability in cable manufacturing.



E Path uses measurable and known assessment criteria to summarize the contribution that cables can provide, in terms of climate change effect, paving the way for the cable industry to be included into eco or green labelling systems. Sustainability is not just a goal, it's our commitment at Oman Cables. We embed sustainability into every strand of our operations, striving not just for excellence but for sustainable excellence. It's who we are, it's what we do.

With sustainability rooted in our DNA, each cable family has to pass a rating process based on the following criteria:



### CARBON FOOTPRINT

Aimed at defining climate change impacts deriving from cables life cycle



### NO TOXIC SUBSTANCES

Absence of CMR or toxic / hazardous to environment substances in the cable



### PERFORMANCE EFFICIENCY

The higher the efficiency of the transmission, the more sustainable the performance



### RECYCLING INPUT RATE

Presence of recycled materials in cable, both purchased and reused



### ENVIRONMENTAL BENEFITS

Low carbon products (including cables used for green energy sources), CPR compliant products



### RECYCLABILITY / CIRCULARITY

Presence of potentially recyclable material, possibility to reclaim / recover

# Data Centre

As one of the largest energy cable solution providers in the region, Oman Cables supports data centre operators with high-quality, reliable, and scalable power infrastructure. Strengthened by the extended portfolio and global expertise of Prysmian, we offer advanced energy solutions engineered for efficiency, safety, and long-term performance.

Your data centre challenges can be addressed with our comprehensive, future-ready power cable technologies.

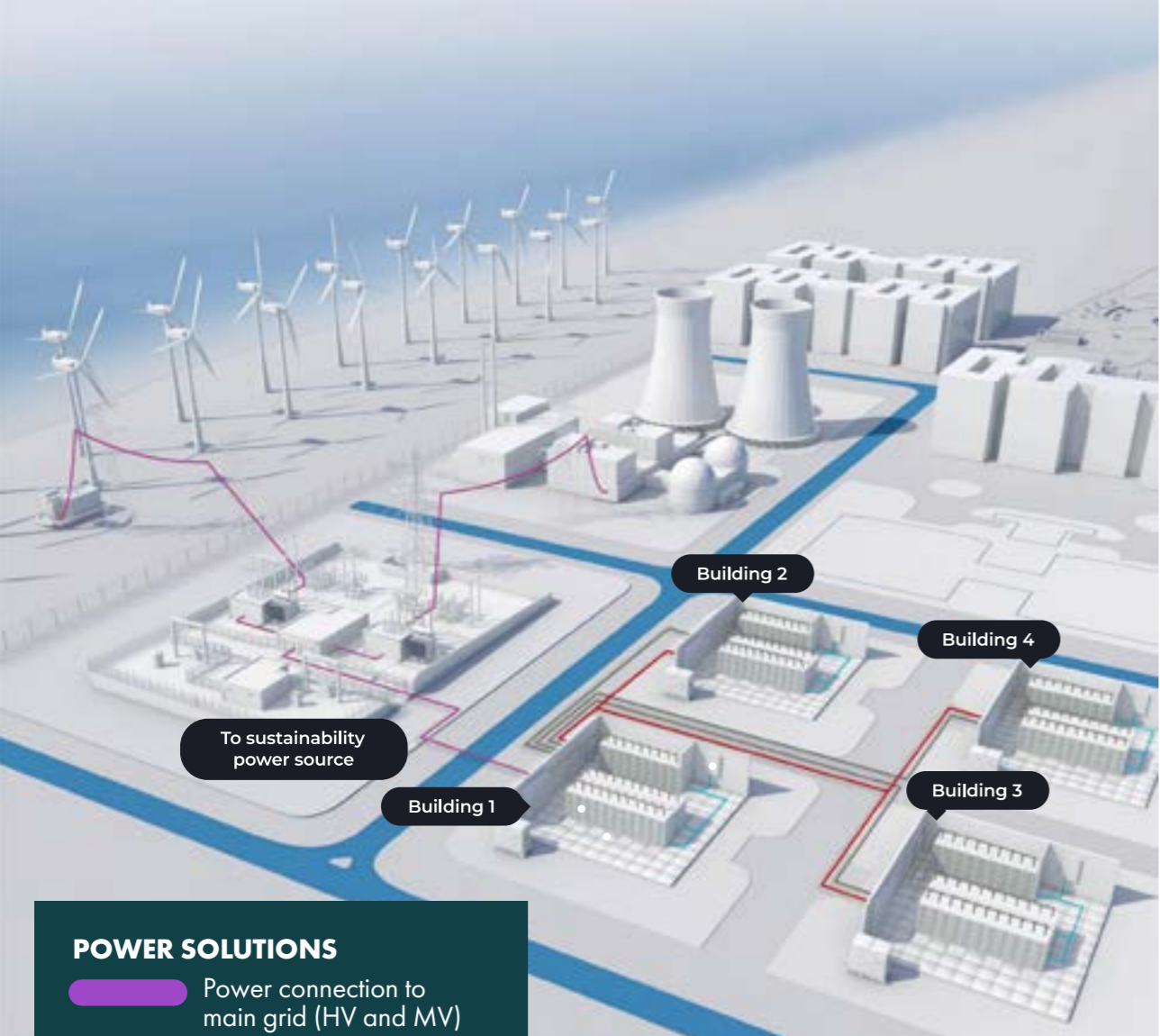


## Oman Cables offers comprehensive solutions.

Virtual Reality. Augmented Reality. 5G. IoT. The smart home. Automated cars. Remote surgery. All require enhanced performance, demanding increased fibre optics, faster data transmission, ample power, and robust computing.

Reliable, secure, and adaptable infrastructure is crucial. Data centres, often overlooked, are vital for communities, storing, communicating, and transporting vast amounts of data. As data volume grows, data centres become even more critical, especially with next-gen applications.

Yet, many current data centres are outdated and inefficient. Slow or unreliable data access leads to decreased customer satisfaction, revenue loss, and inaccessible vital services.



**POWER SOLUTIONS**

- Power connection to main grid (HV and MV)
- Local power distribution
- Indoor power distribution

We focus on developing cutting-edge solutions to address the ever-growing bandwidth concerns:



**DOWNTIME THREATS**

Downtime is a significant issue for data centre operators and business owners alike. Low-quality cables or lengthy installation times are primary causes of downtime.



**SCALING CHALLENGES**

Scalability is crucial to accommodate next-generation applications, yet many operators struggle to provide adequate infrastructure.



**SPACE RESTRICTIONS**

Operators must handle increasing volumes of fibre in and out of their data centres, often with legacy infrastructures.

# Energy Cables for Data Centres

Our cables are ideal for buildings requiring high protection against fire and fire damage, ensuring the safety of both human life and equipment, and meeting stringent security requirements.



## ADVANCED SAFETY FEATURES

LSOH with improved fire behaviour, meeting the highest safety standards.



## ENHANCED ERGONOMICS FOR EFFICIENCY

User-friendly design that is flexible and easy to strip.



## FUTURE-READY DESIGN

Compliant with the latest standards and customer requirements for reliable performance.



## PREMIUM QUALITY

Made with best-in-class materials, ensuring maximum durability.

Trust in our commitment to excellence and innovation to keep your data and energy flowing seamlessly. With Oman Cables Energy Cables for Data Centres, the possibilities are endless.



# CPR-Rated Cables for Data Centre Applications

Data centres host critical digital infrastructure where reliability, uptime, and safety are paramount. While performance metrics such as bandwidth, latency, and energy efficiency often dominate design considerations, **fire safety in cabling infrastructure is equally essential**. The Construction Products Regulation (CPR) establishes harmonized requirements that classify cables according to their reaction to fire, helping designers and operators select safer cabling solutions for buildings and critical facilities.

In modern data centres where thousands of cables run through trays, racks, and pathways the **potential fire load of cable installations can be significant**. CPR-rated cables are engineered to limit flame propagation, reduce heat release, and minimize smoke and hazardous emissions during a fire event. This improves evacuation visibility, protects sensitive equipment, and supports safer intervention by emergency services.

By specifying **CPR-compliant data cables**, operators can align their infrastructure with stringent safety standards while enhancing the resilience of their facilities. Beyond regulatory compliance, these cables contribute to **safer building environments, reduced operational risk, and greater long-term reliability** making them a smart choice for data centre environments where both performance and safety must operate at the highest level.

Reaction to Fire BS EN ISO 1716		FSC Comment		
<b>A<sub>ca</sub></b>	Does not contribute to the fire	It will be almost impossible for a cable to meet Class Aca and due to availability, they should only be specified with extreme caution.		
Reaction to Fire BS EN ISO 1716		Smoke Production BS EN 50399/BS EN 61034-2	Flaming Droplets BS EN 50399	Smoke Acidity BS EN 60754-2
<b>B1<sub>ca</sub></b>	Minimum contribution to the fire	It's very unlikely that commonly-used cables will be classified to Class B1ca.	s1a: s1 + transmittance >=80% (BS EN 61034-2) s1b: s1 + transmittance >=60% <80% (BS EN 61034-2)	d0: No fall of droplets or flaming particles, timed for 1200 seconds a1: - Very low acidity (conductivity <2.5 μS/mm & pH >4.3)
<b>B2<sub>ca</sub></b>	Combustible, low flame spread & heat release contribution to the fire	Similar to Class Cca although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet.	d1: Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds	a2: Low acidity (conductivity <10 μS/mm & pH >4.3)
<b>C<sub>ca</sub></b>	Combustible, moderate flame spread & heat release	A more rigorous test than Class Dca this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class Cca though availability is improving	s1: Low production & slow propagation of smoke s2: Intermediate production & propagation of smoke	a3: None of the above
<b>D<sub>ca</sub></b>	Combustible, moderate flame spread & high levels of heat generated	This classification has relatively little use or acceptance within specifying/contracting organisations. This is because no large scale fire growth is measured	s3: None of the above d2: None of the above	
Reaction to Fire BS EN 60332-1-2				
<b>E<sub>ca</sub></b>	Combustible, limited fire spread of less than 425mm	A basic test for vertical flame propagation for a single insulated wire or cable using a 1-kW pre-mixed flame. Note: This test does not measure heat release, toxic fumes or smoke.		
<b>F<sub>ca</sub></b>	Combustible, fire spread of more than 425mm	Cables classified to Class Fca may have high levels of flammability due to the materials they are made of. This does not mean that the cable can not be used, it is more likely to be used in external.		

# Low Voltage Cables

for Data Centres

## LOW VOLTAGE HALOGEN-FREE INSTALLATION CABLES



### CU/XLPE/LSZH 1KV (N2XH)

These cables with copper conductors are Low Smoke Zero Halogen (LSOH), recommended for fixed installations in public buildings, industrial complexes and everywhere where people safety is mandatory.



### CU/XLPE/CWS/LSZH 1KV (N2XCH)

These cables are specifically designed with enhanced fire-resistant properties, tailored for critical environments like hospitals, schools, and similar structures. These cables are halogen-free and emit minimal smoke, ensuring safety during fire incidents.



### CU/XLPE/LSZH 500 V (NHXMH)

These cables are designed with improved fire-resistant qualities, suitable for building and industrial installations.



## LOW VOLTAGE EARTHING CABLE



### CU/LSZH 750 V (H07Z-R)

These cables are used for fixed protected installations, including lighting fittings, switch and control gears. They are suitable for environments where the risk of fire, smoke emission, and toxic smoke poses a threat to life and equipment.



# Low Voltage Cables

## LOW VOLTAGE FLEXIBLE CABLES



### CU/XLPE/LSZH 1KV (RZ1-K)

This cable is a low smoke halogen-free (LSOH) and easy stripable cable, ideal for public places like hospitals, schools, airports and similar. It helps to protect people and electronics from harmful or corrosive gasses in case of fire.



### CU/EPR/EPR 750 V (H07RN-F HF)

These Cables are suitable for use in various environments, especially for transportable motors or machines on construction sites or in agricultural settings, even in explosives or flammable atmospheres.



### CU/LSZH/LSZH 750 V (H07ZZ-F)

High performance, flexible power cables that meet the highest safety standards for fire, smoke and toxicity (LSOH). Designed for indoor and outdoor applications where human life and valuable equipment are at risk from fire.

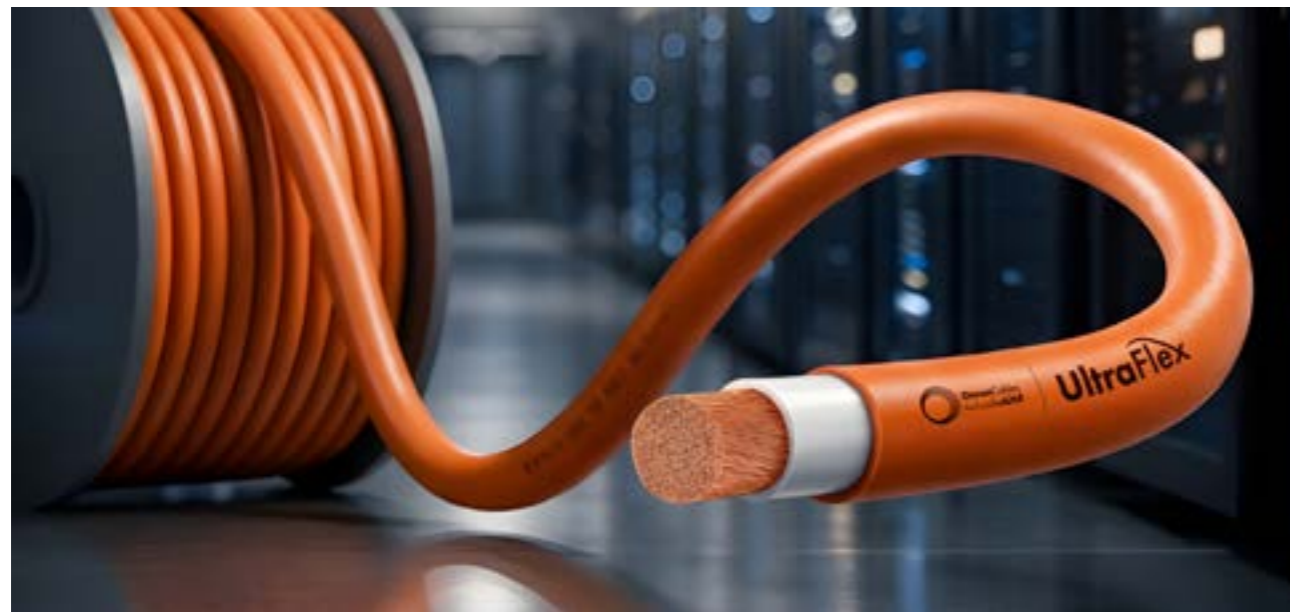


# OCI-UltraFlex

## Flexibility Without Compromise

Engineered for the high-density, OCI-ULTRAFLEX redefines flexibility in critical power application. Built with advanced cross-linked polymers and a fine-drawn conductor compliant with IEC 60228 standards, it delivers exceptional durability, thermal stability, and consistent electrical performance.

Designed for complex installations, it enables superior handling in confined spaces, tighter bending radius and efficient routing across racks, trays, and overhead or underfloor systems. Its enhanced flexibility allows faster installation, and reduced mechanical stress.



### Extreme Flexibility

Manufactured using advanced cross-linked polymer materials and fine drawn conductors in accordance with IEC 60228, ensuring outstanding handling performance in complex routing environments.

### Superior Cable Management

- Strong product availability
- Shorter lead times
- Cut-to-length service for reduced waste and faster deployment
- Responsive technical and logistics support

### Safety and Handling Performance

High flexibility reduces handling effort, minimizes fatigue and ergonomic risk, and enhances safety in confined, high-density environments.



### Quality and Reliability

- Exceeds standard requirements
- Strict quality control
- Robust design for long-life performance
- Expert after-sales technical support



### Long-Life Performance

- IEC 60502-1 compliant, 1 kV rated
- Manufactured with advanced, durable materials
- Engineered for sustained high performance
- Cross-sections up to 630 mm<sup>2</sup>



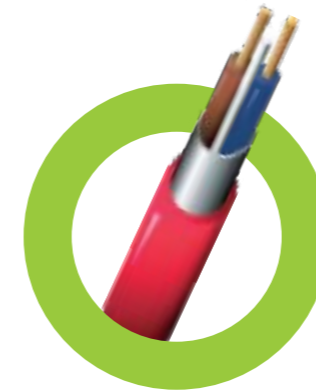
OCI - UltraFlex

صنع في عُمان  
Made in OMAN

OCIBDC001.00

# Fire-resistant Cabling Solutions for Critical Applications

## Safety and Reliability



### Prysmian FP200 Gold & FP Plus

A range of standard and enhanced fire-resistant cables designed for critical safety systems. Suitable for fire alarm, emergency lighting, and essential service control circuits. Fully approved to BS7629 1, BS8434 2 (enhanced), BSEN50200 PH120 (standard) and BS6387 CWZ, with BASEC and LPCB certifications.



### Prysmian FP400 & FP600S

High performance standard and enhanced fire-resistant power cables offering ultimate protection for life safety applications. Rated for 600/1000 V and certified to BS8519 Categories 1, 2, 3, BS7846 F120 (FP600S), BS7846 F2 (FP400), plus BS6387 CWZ, with BASEC and LPCB approvals. Ideal for essential systems requiring assured fire survival.



### Prysmian FP100

A single core fire resistant cable for general life safety systems, including fire alarms and emergency lighting. Designed for reliability in emergency applications and compliant with BS8592.

## Essential Accessories for Fire-Resistant Cable Systems



### Nylon Cable Gland – FP2520

The FP2520 Nylon Cable Gland provides secure termination for fire alarm cables in indoor and outdoor environments. It features a Cable Grab Claw for firm retention and moulded compressible entry thread seals for strong environmental protection. Available in red or white and supplied with a nylon locknut.

**Key Points:** Compatible with all fire alarm cable types; strong mechanical grip; enhanced sealing; colours : Red (R) and White (W); complete kit with locknut.

**Standards:** BS EN 50262; IP68 rated; flame retardant nylon.



### AP Clips – Single Cable Clip

AP Clips are single fix fire resistant clips for supporting one cable in visible or standard fire installation routes. Made from BS EN 1652 copper strip with red or white LSOH polyester coating. Tested with FP cables and compliant with BS 5839 1:2002 + A2:2008.

**Key Points:** Suitable for FP200 Gold®, FP Plus™, FP Plus Flex™, Afumex LSX™, Draka FT30, FT120, FT Data; secure single cable retention; fire tested; suitable for visible fire alarm routes; BS 5839 1 compliant.



### Firefix® Single Clip

The Firefix® Single Clip is a rapidfit, fire resistant clip approved under LUL APR (ID 1960). Designed for Spit Pulsa™ gas nailing tools, it enables fast installation on steel, concrete, brick, block, and decking. Built from corrosion resistant stainless steel with intumescent LSOH coating in red or white.

**Key Points:** Nail fixed; compatible with Spit Pulsa™; meets BS 5839 1:2002, BS 5266 1:2011, BS 5839 8:2006; suitable for multiple substrates; approx. 10 second installation; red/white variants.



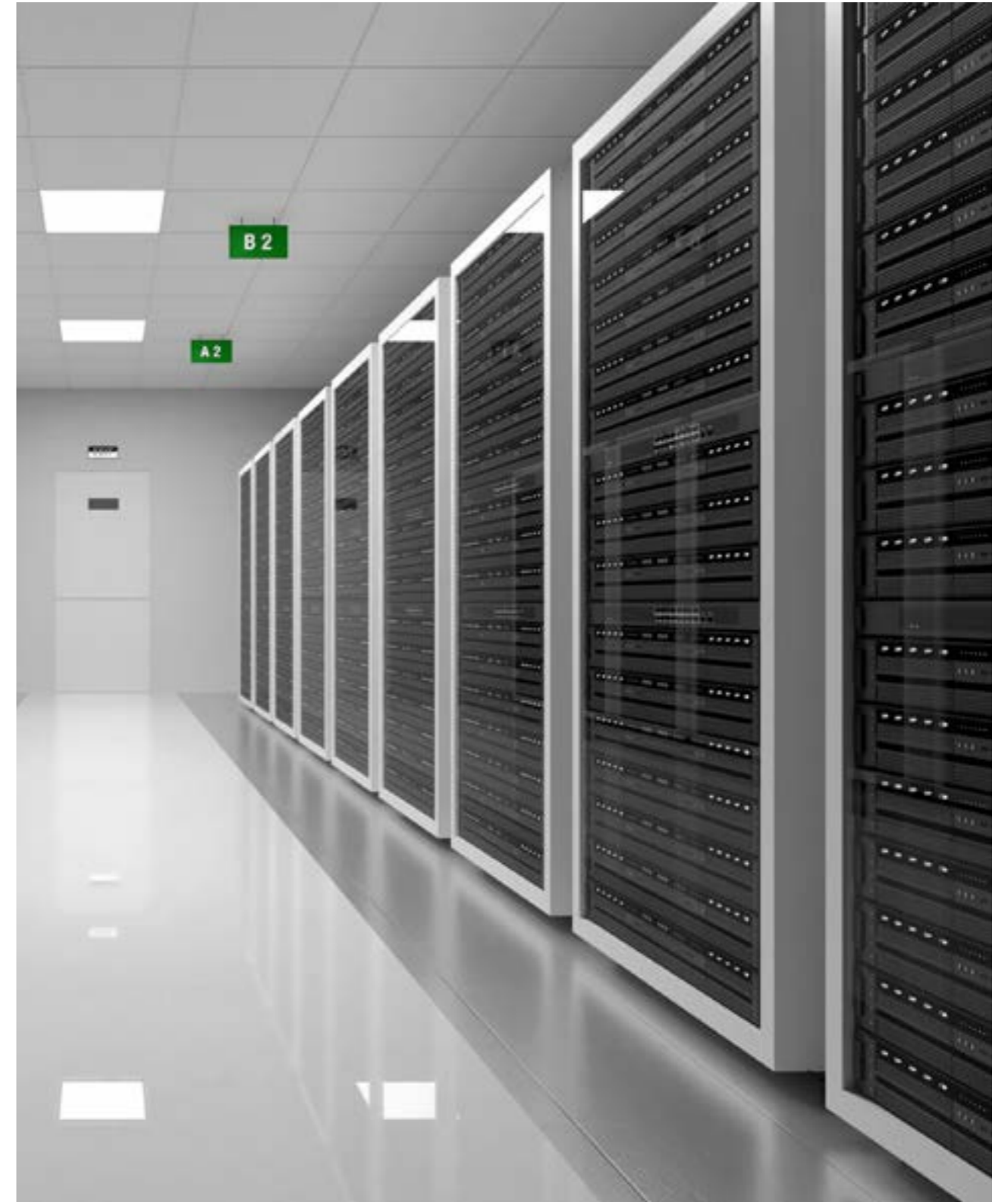
### Firefix® Double Clip

The Firefix® Double Clip is a dual-capacity fire-resistant clip approved under LUL APR (ID 1960). It enables quick installation of two parallel fire-performance cables using Spit Pulsa™ gasnailing technology. Made from corrosion resistant stainless steel with intumescent LSOH coating in red or white.

**Key Points:** Nail fixed double cable design; fast Spit Pulsa™ installation; compliant with BS 58391:2002, BS 52661:2011, BS 58398:2006; suitable for steel, brick, block, concrete, decking; supports two cables for efficient routing.

# Digital Solutions

Engineering Smarter Digital Futures



# Fiber Optic Solutions

## Fiber Optic Cable Solutions



### **FLEXTUBE®**

FlexTube® technology has been invented/ patented within Prysmian Group  
It's a more user friendly solution than standard loose-tube in terms of cable outer diameter and fiber accessibility.

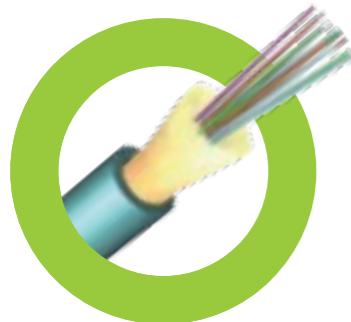
- Suitable for outdoor/ indoor / tunnel applications
- Fit to cable capacity without filler



### **FLEXRIBBON™**

FlexRibbon™ is the new generation of mass splicing cable allowing high and fiber count in a reduced diameter cable with higher flexibility in terms of cable design.

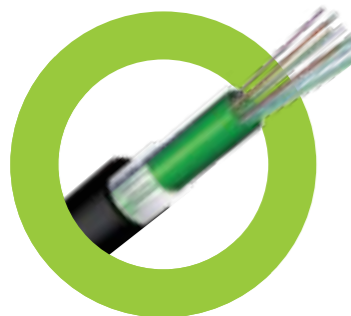
- Up to 6912F 200 μ in a 39mm cable, >5.8 FO/mm<sup>2</sup>
- Flexible in all direction without stress on the fiber
- Available for outdoor and indoor applications
- Easy access to big unit of 288F / 24x12 Ribbon



### **INDOOR FIBER CABLE**

UCFIBRE™ 2~24 Core MT Series Indoor Tight Buffer Distribution Cable, LSZH

- Fiber: 900um color coating fiber (0.9mm)
- Strength Member: Aramid yarn
- Outer Sheath: LSZH
- Suitable for indoor installation requiring flame retardant, low smoke and halogen free environment.



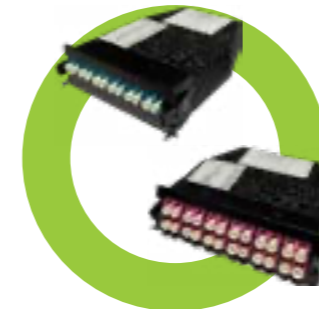
### **INDOOR/OUTDOOR FIBER CABLE**

UCFIBRE™ 2-24 Core UGM Series All-Dielectric, Uni-tube Cable, LSZH

- Uni Tube: thermoplastic material, containing up to 24 fibers filled with a suitable water tightness compound
- Peripheral Strength Elements: glass yarns
- Outer Sheath: LSZH
- Suitable for duct and indoor/outdoor installations

# Fiber Optic Solutions

## MPO FO Solution



### **UC9500 MPO-LC, Low Loss module, Type-P, MPO-12 Base**

Available for Multimode and Singlemode  
12F (1XMPO-12) and 24F (2XMPO-12) per Cassette  
Standard density up to 96F per one RU  
Support Duplex Application such as 10Gbps  
ANSI EIA/TIA 568-C .3, ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017  
Compatible with Type-B MPO(F) to MPO(F) Trunk Cable



### **UC9600 FIBER PATCH PANEL**

1 RU, 2RU, 4RU Fiber Patch Panel, sliding style  
Easy fix-up to 6 MPO-LC Module up to 144F per 1RU  
Individual cassette sliding flexible and more protect to other connection  
Including Front and Rear Cable management  
Front labeling



### **UCCONNECT MPO TRUNK CABLE**

MPO-F to MPO-F or MPO-M to MPO-M  
MPO Method A and Method B available, Female to Female and Male to Male  
MPO-8, MPO-12 and MPO-24 Base Low Loss performance  
Small diameter 3.0mm for MPO-8 and MPO-12, 3.8mm for MPO-24  
ANSI EIA/TIA 568-C .3  
ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017  
Compatible with Type-P MPO-LC Module



### **UCCONNECT MPO PATCH CORD**

Small diameter 3.0mm cable, flexible and easy management  
Method B Wiring support direct patching equipment  
MPO-8, MPO-12 and MPO-24 Base Low Loss performance  
Female to Female, Male to Male and Male to Female available  
Maximum length 5 meters  
ANSI EIA/TIA 568-C .3  
ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017

# UC Fiber Connect

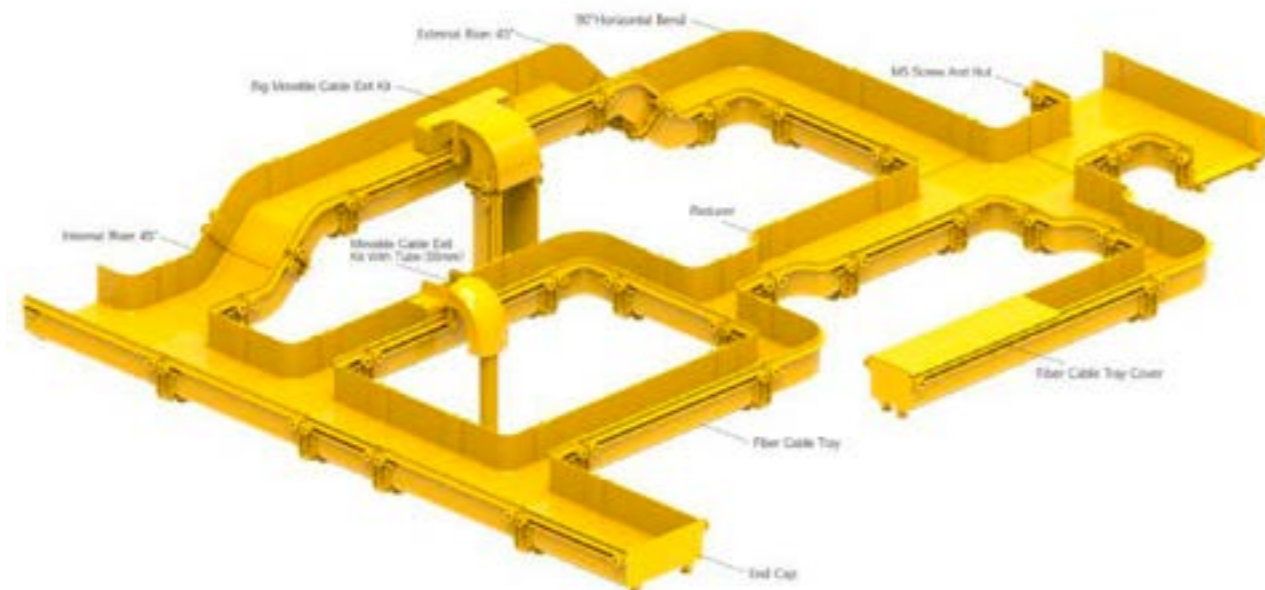
Fiber Containment is a system designed to protect and route fiber optic patch cords, cable assemblies, MPO Trunk Cable and MPO Patch Cord from network cabinet, ODF and other area. UC Fiber Connect is fiber containment offers ideal solutions for optical raceway requirements and applications with elegant appearance, easy to move, add and change as well as maintenance. The system is designed to maintain 5cm (2 Inch) bending radius. User friendly installation without special tool

## SAFETY AND STANDARD

- UL 2024, Cable Routing Assemblies and Communications Raceways
- RoHS Directive (EU) 2015
- Flame retardant materials rated GB/T2048-2008 FV-0 equivalent to UL94 V-0
- Material: Straight Section flame retardant PVC, Connector flame retardant ABS

## FEATURE

- The closed design protects the fiber optic cables from damage.
- Fiber duct is made from flame-retardant plastic material with a smooth surface ensure fiber will be protected, flexible move add and change with less impact existin g cabling system
- Offers excellent bend radius control and ensures fiber radius>2 Inch.
- Movable cable exit kit is optional to satisfy the expanding request of data center.
- Different kind of installation way is available such as ceiling mount, cabinet top supporting or connecting with other cable trays.
- Flame retardant rating of FV-0 for PVC and ABS.



# UC Fiber Connect



## UC Fiber Connect Straight Section

Four different size UC Fiber Connect:

- UCFC 120 Series 4.5X4 Inch (120mm wide,100mm height), 2m Long
- UCFC 240 Series 9.5X4 Inch (240mm wide, 100mm height), 2m Long
- UCFC 300 Series 11.5X4 Inch (300mm wide, 100mm height), 2m Long
- UCFC 360 Series 14X4 Inch (360mm wide, 100mm height), 2m Long

Fast Connect to UCFC Connector

Cover sale as an option



## UC Fiber Connect Connector

Connect to Straight Section.

Supply with:

- 8 Screw for 120 and 240 series
- 10 Screw for 300 and 360 series



## UC Fiber Connect 90 Degree Horizontal Elbow

Connect to Straight Section.

Build-in Connector fast and easy installation for 120, 240 and 300 series

Cover available for 120 and 240 series

Supply with:

- 8 Screw and nut for 120 and 240 series
- 10 Screw and nut for 300 series



## UC Fiber Connect Drop Exit

Align and drop fiber out from Straight Section.

Flexible for move add and change without any cut and drill

Bending control and protect patch cord

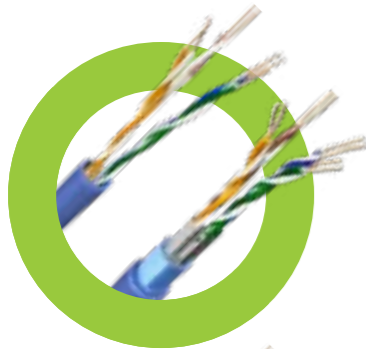
Suitable for many cables drop easy manage with or without flex tube

Able to connect to 20 straight section down to the rack

Supply with:

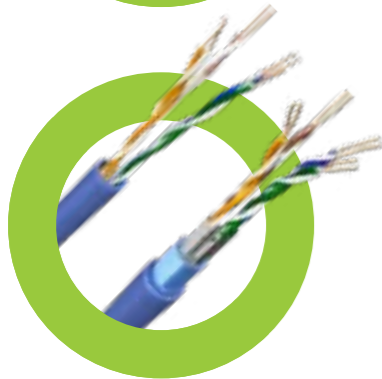
- 2 Screw and nut (without flex tube)
- 2 Screw and nut, 2X55mm 80cm flex tube with fitting (with flex tube)

# Copper Solutions



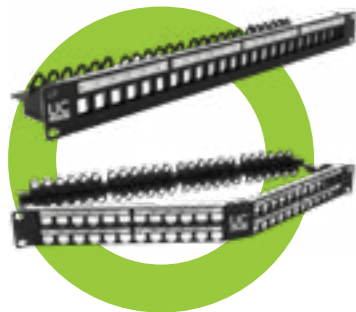
## UCDATA CAT6 Cable

23AWG Conductor  
 U/UTP, F/UTP Available  
 LSZH Jacket  
 IEEE 802.3 10Base-T; 100Base-T; 1000Base-T  
 ANSI EIA/TIA 568-C.2: 2009  
 ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017



## UCDATA CAT6A Cable

23AWG Conductor  
 U/UTP, F/UTP, F/FTP Available  
 LSZH Jacket  
 IEEE 802.3 10Base-T; 100Base-T; 1000Base-T; 10GBase-T  
 ANSI EIA/TIA 568-C.2: 2009  
 ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017



## UCCONNECT Patch Panel

EIA 310D 19 Inch Rack mount  
 1RU 24 Port Standard Density, Unloaded  
 1RU 48 Port High Density, Unloaded  
 Flat and Angle version support both Shielded and Unshielded  
 Including Smart Clip Lock individual cable management  
 Compatible with both Shielded and Unshielded



## UCCONNECT Pre-terminate Copper Trunk Cable

RJ45-RJ45 Pre-Terminate Trunk Cable  
 Cat 6 U/UTP and Cat 6A F/FTP  
 IEEE 802.3 10Base-T; 100Base-T; 1000Base-T; 10GBase-T  
 ANSI EIA/TIA 568.2-D  
 ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017  
 6-Port Bundle LSZH, plastic braided sleeve  
 Factory pre-tested, ready to use  
 Compatible with HD Patch Panel Unload

# UC Wire Mesh Connect

Wire Mesh Connect is a system designed to protect and route Copper Cable, Copper Trunk or Power Cable from network cabinet, ODF and other area. UC Wire Mesh Connect offers ideal solutions for copper cable raceway requirements and applications with elegant appearance, easy to move, add and change as well as maintenance. The system is designed user friendly installation without special tool

## MATERIAL

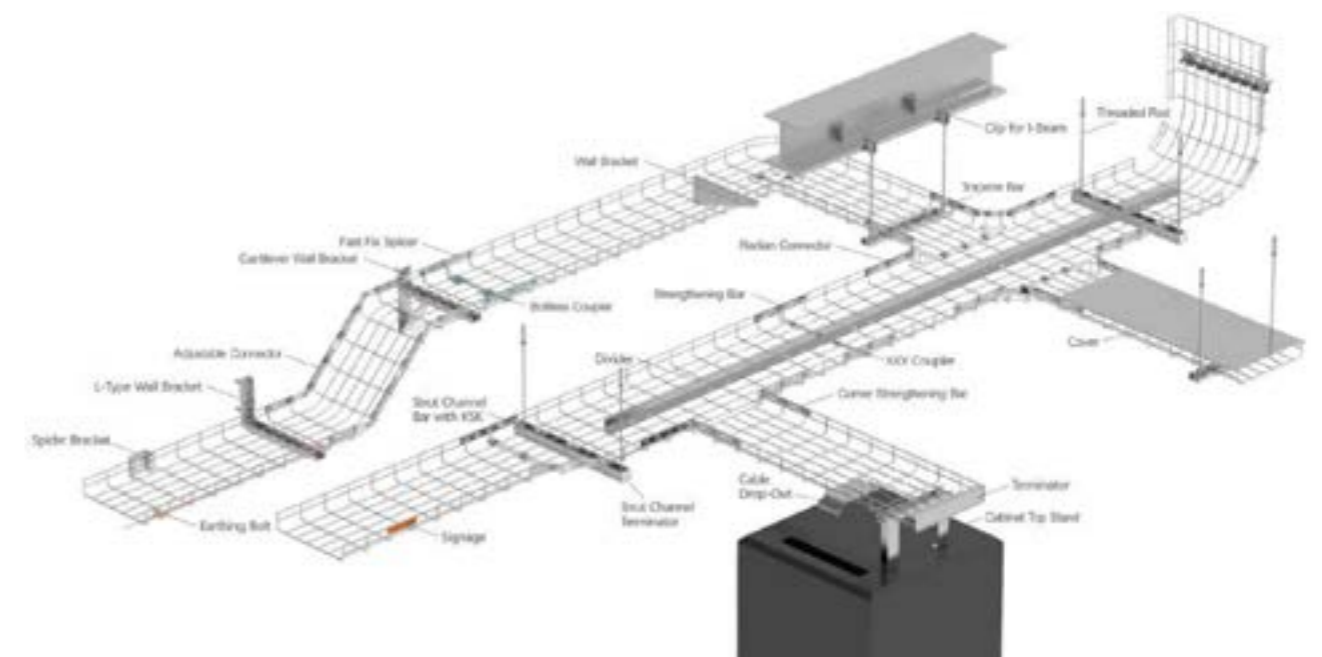
Electro galvanized steel is the process by which a coating of zinc is deposited on the steel by electrolysis to form a tough, adherent, and protective film. This film itself is a barrier coating which slows subsequent corrosive attack on the zinc. This coating is usually only recommended for indoor use in relatively dry areas, as it provides Limited protection (ninety-six hours of protection in salt spray).

## FEATURE

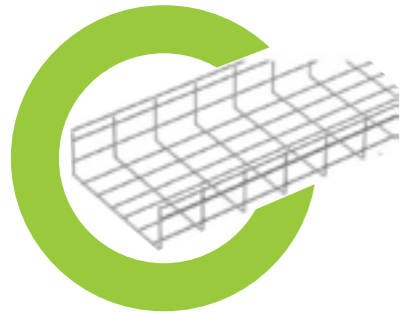
- Lightweight materials wire mesh cable tray is 1/5 of the traditional cable tray, easier for installation.
- Open design allows continuous airflow to prevent overheating and the build-up of dust and contaminants.
- All kinds of elbows can be made at the project site flexibly.
- Multiple finishes are available for indoor and outdoor applications.
- It's more convenient for management, upgrade, and maintenance
- 70 Degree safety edge welding protect cable from cutting and damage
- Joining point  $\leq 5m\Omega$  resistance great bonding performance

## STANDARD COMPLIANT

- RoHS Compliant
- EN 61537:2007



# UC Wire Mesh Connect

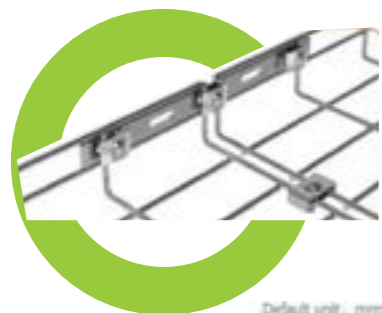


## UC Wire Mesh Connect Straight Section 100 Series

### Material:

Material: Electrogalvanized steel

Dimensions: wire common diameter 5.0mm & length 3M

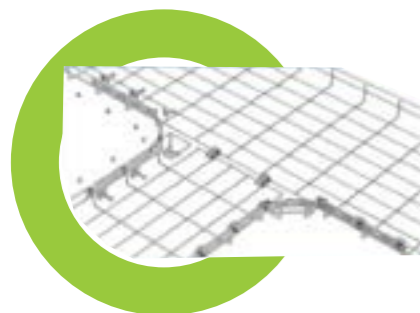


## Strengthening Bar

Suitable for: Connect of wire mesh cable tray

Compatible with: Wire diameter from 3.5mm to 6.0mm

Include: Bar x 1, KK34-top x 3, M6 bolt x 3, M6 nut x 3



## Radian Connector

Suitable for: Connect of Elbow, Tee, Cross

Compatible with: Wire diameter from 3.5mm to 6.0mm

Include: Bar x 1, KK34-top x 6, M6 bolt x 6, M6 nut x 6



# Racks



## Network Rack

### FEATURE:

International Standards & Certifications – Built to ANSI/EIA, DIN, IEC, GB/T, and ETSI standards, with ISO 9001 and ISO 14001 compliance ensuring quality and sustainability.

Durable Modular Design – Knock-down structure made of high-grade SPCC steel with electrostatic powder coating (RAL9005 black), easy to assemble, transport, and customize.

Heavy Load Capacity & Mobility – Supports up to 800 kg, equipped with 4 leveling feet and 4 heavy-duty castors (2 with brakes) for stability and smooth movement.

Advanced Cooling & Cable Management – Honeycomb perforated doors (up to 78% airflow), roof slots for cable access, support for up to 6 fans, plus vertical and rear cable management options.

Flexible Security & Access Options – Multiple door styles with swing handle, 3-digit code, or electronic locks, plus removable side panels and modular cable routing, making it adaptable to diverse data center needs.



## Server Rack

### FEATURE:

Global Standards Compliance – Designed to meet ANSI/EIA, DIN, IEC, GB/T, ETSI standards, and certified with ISO 9001 & ISO 14001 for quality and environmental management.

Modular Knock-Down Design – High-strength SPCC steel construction with electrostatic powder coating, easy to assemble, transport, and customize.

Heavy-Duty Capacity – Supports up to 1500 kg load with 4 leveling feet and 4 heavy-duty castors (2 with brakes) for stability and mobility.

Superior Airflow & Cooling – Front and rear perforated honeycomb doors (up to 78% airflow), optional fan sets (up to 6), and optimized roof cable management for heat reduction.

Flexible Security & Access Options – Multiple door styles with swing handle, 3-digit code, or electronic locks, plus removable side panels and modular cable management for maximum adaptability.

# Solar PV Solutions

## for Data Centres



In response to the growing adoption of solar power in data centres, this section highlights our Solar PV solutions and specialised solar cables designed to maximise clean energy generation. Data centres can harness rooftop installations, dedicated on-campus solar plants, or power sourced from off-site solar facilities to produce or access sustainable energy, reducing reliance on the grid and improving long-term energy cost stability. Integrating solar PV in all these forms strengthens operational resilience, advances decarbonization objectives, and enhances overall ESG performance in line with evolving regulatory expectations. Our solar cables are engineered to ensure safe, efficient, and reliable energy transmission across these diverse solar applications, supporting data centres in their transition to sustainable power.

## Solar PV Solutions for Data Centres



### **PRYSOLAR PV Cables**

Advanced DC cables specifically engineered for solar power plants PRYSOLAR cables are designed to withstand extreme climates and long-term water immersion, ensuring reliable performance even in the harshest environments. With a 30+ year lifetime and certified insulation, they deliver maximum safety, efficiency, and a strong return on investment for solar projects worldwide.



### **Special Performance PV Cables**

Flexible, UV-resistant, and flame-retardant cables enhanced with rodent and termite repellent properties. These cables are ideal for outdoor and direct burial installations, offering robust protection against environmental hazards and ensuring long-lasting, trouble-free operation in solar farms and rooftop systems.



### **Special Performance PV Cables – Rodent and Termite Repellent**

Armoured, flexible, UV resistant, and flame retardant PV cables engineered for enhanced mechanical protection. These cables are reinforced with rodent and termite repellent properties, making them ideal for outdoor routing and direct burial applications. They provide robust defence against environmental hazards and ensure long lasting, trouble free operation in solar farms and rooftop systems, and rooftop systems.

# Battery Energy Storage Systems

Advanced Cabling Solutions for BESS



AFUMEX® BESSFLEX(AS) RZ1-K(AS) B2ta-s1b,d1,a1



## AFUMEX® BESSFLEX (AS)

Low voltage cable for interconnection between the battery modules and the DC to AC converter stations for consumption or injected into the grid after increasing the voltage. More **sustainable, manageable, and with improved reaction to fire, weather resistance and rated stress**



### More flexible

The Afumex® BESSflex (AS) cable from Prysmian is manufactured with a copper conductor (class 5). The special design of the conductor's strand arrangement makes it noticeably more flexible than other conventional flexible cables.



### Better reaction to fire

Improved fire resistance compared to conventional high-security (AS) cables. The B2ca-s1b, dl, al class of Afumex® BESSflex (AS) provides a high level of fire safety in the interconnection between the batteries and the station converter.



### Rated voltage 1.8/3 kV

The electronics of the converter station can affect the supply voltage from the batteries in the form of a reflected wave that, added to the continuous voltage of the BESS can overstress the cable insulation. Hence, the usual voltage 0.6/1 kV may not be sufficient to support the frequent voltage spikes with warranty. The assigned voltage of the Afumex® BESSflex (AS) is 1.8/3 kV.



### High resistance to UVA rays

Sunlight can cause accelerated aging of cables, that's why Afumex® BESSflex (AS) passes the resistance tests to UVA rays according to UNE-EN 50618 (test of cables for photovoltaics) and UNE 211605 (test present in numerous cable design standards for BT and MT) increasing the strength and reliability of the BESS system.



### More sustainable. Reduced CO2 emissions.

Afumex® BESSflex (AS) is manufactured using 100% renewable electricity and contains recycled copper in its conductor, which allows it to reduce its CO2 emissions.

# Advanced Monitoring Solutions Electrical and Optical Sensing Solutions (EOSS)

## Unlocking the Power of Data-Driven Efficiency

Reliable and safe electrical systems are crucial when it comes to power distribution. Data centres are especially vulnerable to disruptions from power outages or malfunctions, leading to significant risks and economic losses.

## Revolutionizing Power Management

Electrical and Optical Sensing Solutions (EOSS) is a groundbreaking technology for electrical system monitoring and condition assessment. It provides online, accurate, and reliable measurements, diagnosing and localising defects remotely. This results in enhanced grid reliability, safety, and cost efficiency for utilities and industries.

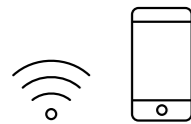
## Key Features

- 
**REAL-TIME DATA**  
 Monitoring conditions, malfunctions, and overheating without the need for specific expertise.
- 
**COMPREHENSIVE COVERAGE**  
 Suitable for electrical equipment from 3 kV to 600 kV, including cables, transformers, and switchgear.
- 
**FLEXIBLE SOLUTIONS**  
 Configurable for specific maintenance and asset management strategies.
- 
**INTEGRATED MONITORING**  
 Continuous or temporary monitoring of key parameters like partial discharge, temperature, and humidity.
- 
**ADAPTABLE PLATFORM**  
 Compatible with various SCADA protocols, customizable to customer requirements.
- 
**ADVANCED TECHNOLOGY AND DATABASE**  
 Harnessing IoT and a cloud-based system with over three million measurements for effective monitoring and continuous improvement.

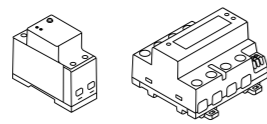
# OMHERO

An Intelligent, IoT-enabled monitoring device designed for low-voltage electrical systems

Easy to install, simple to use. What you need:



You need a smartphone to download the app that guides you step by step through the device installation process.



The Master unit is inserted into the DIN rail of the main electrical panel, and through the Plug, it conducts tests at all measurement points within the circuit.



**OMHERO APP PRO**  
for electricians

During installation and maintenance procedures, the app allows access to all installed Master devices and real-time monitoring of their parameters.

## The solution dedicated to business and enterprise users

### An unlimited number of devices.

No matter how many Omhero devices you manage, Omhero's Business Cloud allows you to manage an unlimited number of devices simultaneously and in real-time on your desktop.

### Comparison of managed devices.

Monitoring consumption and comparative analysis of energy efficiency allows for objective evaluation and identification of potential optimizations.



**Omhero Cloud**  
The web app dedicated to business users.

### A simple and intuitive dashboard

/ **Consumption:** It's possible to visualize the daily consumption trends in terms of costs and emitted CO2.

/ **Power Quality:** You can monitor the electrical load and receive notifications about residual power in the system and any power outages.

/ **Status of connected devices and the overall system.**

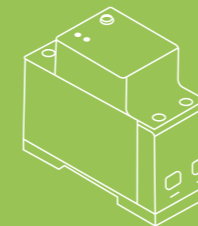


## Advanced solutions for managing complex environments

Monitoring electrical consumption, studying its evolution, and optimizing it is essential for all complex commercial and residential entities, whether small or medium-sized. This includes environments such as hospitals, hotels, schools, universities, condominiums, residences, and housing cooperatives.



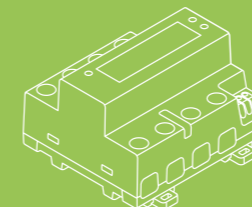
Master



Plug



Master 3



### Omhero serves

- Energy Managers
- Property Managers
- Condominium
- Administrators
- Maintenance Teams; and
- Maintenance Companies

## A new service for customers

Thanks to Omhero Business Cloud, Energy Managers, Property Managers, maintenance teams, and companies can become genuine service providers for their end users.

## One solution, many functionalities:

- Real-time measurement of system parameters;
- Voltage drop measurement;
- Measurement of earth loop impedance
- Circuit breaker test
- Residual current device (RCD) test

# Network Components

## Comprehensive One-Stop Solutions

At Oman Cables, we understand that a seamless data centre cable infrastructure is crucial for its smooth operation. This is why we provide extensive solutions beyond cables: Our expertise extends to a wide spectrum of network components, ensuring that data centres are fully equipped with the highest quality products.

Our portfolio of accessories includes a vast range of joints, terminations, separable connectors and other accessories, e.g. cleats and glands. Whether components for low, medium or high voltage cables: we cover all requirements for a complete cable infrastructure.



## The Top 5 Components for Data Centres



### LOW VOLTAGE JOINTS

- Various types: straight, branching, unarmoured, and armoured
- Ready for immediate energization after resin injection
- Tested and approved by EN 50393 and IEC 61238 standards



### CLICK-FIT FOR HIGH VOLTAGE

- Simple plug-and-power concept for easy and fast assembly
- Maximum reliability with maintenance-free operations
- Leading system for High Voltage cable accessories up to 72.5 kV



### ELASPEED MEDIUM VOLTAGE JOINTS

- Coldshrink all-in-one EPDM design, available in LSOH outer protection and sensorised (Elaspeed S) versions
- Including shear-bolt connector, no special tools required
- Watertight and suitable for underground networks, cable trays, and overhead networks



### ELASCON MEDIUM VOLTAGE JOINTS

- EPDM range-taking separable connectors, suitable for interface C 630A/1250A, indoor and outdoor
- Supplied with shear-bolt lugs
- Compatible with one or three core Medium Voltage cables, unarmoured, and armoured

### ACCESSORIES



### BICON CLEATS

- Designed for the highest performance standards
- Ensuring safe and efficient cable installation and operations
- Withstanding short circuits or faults

# Research & Development (R&D) Centres



Leveraging on our strategic technological partnership with Prysmian, Oman Cables have direct access from one of the world's most advanced innovation ecosystems, giving us direct access to breakthrough technologies and global R&D expertise. With 26 international R&D centres and collaborations with more than 50 universities, this partnership strengthens our ability to deliver high-performance, future-ready cable solutions to the region. It supports our commitment to a cleaner, safer, and more sustainable future, backed by advanced Centres of Excellence, thousands of patents, and continuous development of next-generation technologies—from deep-water offshore wind applications to intelligent cable systems for predictive maintenance. This shared innovation culture, combined with successful initiatives such as Alesea, Kablee, Cultifutura and our own monitoring solutions, allows Oman Cables to bring world-class technology closer to customers in Oman and the region.



# Quality Without Compromise



**Our commitment to quality is evident in our policies and processes, including the Quality Management System (QMS) based on ISO 9001. We prioritize continuous improvement, challenging objectives, and effective corrective action.**

At Oman Cables, we're not satisfied with just being good; we strive for outstanding quality in everything we do. Our Quality Organizational Model ensures market-leading manufacturing excellence through rigorous monitoring processes at every stage of a product's lifecycle.

From raw material procurement to final delivery, we maintain strict quality standards, aiming for "zero defects" and a "right first-time" approach. Our energy cables consistently meet the highest standards for customer satisfaction.

Globally recognized standard for quality management



**ISO 9001**



**ISO 14001**



**ISO 45001**



**ISO 50001**



The information contained in this document is for general informational purposes only and is subject to change without notice. While every effort has been made to ensure accuracy, no representation or warranty, express or implied, is made regarding the completeness or correctness of the information. Users are responsible for verifying the suitability of products for their specific applications. The manufacturer assumes no liability for any damages arising from the use of this information.

VER 1.0

[www.omancables.com](http://www.omancables.com)

Follow us

