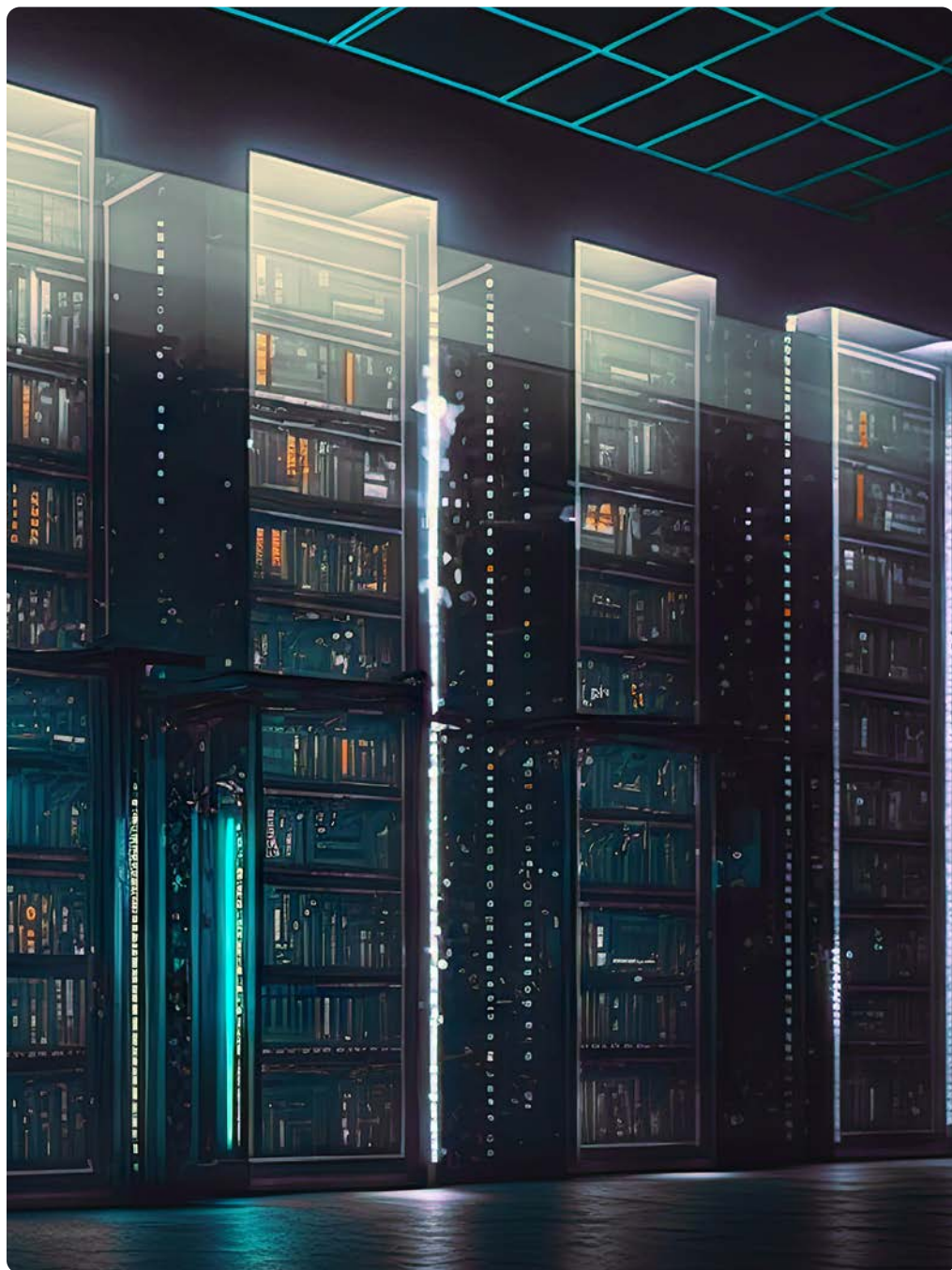


# DATA CENTER

## Ordering Guide



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Prysmian is a global cabling solutions provider leading the energy transition and digital transformation. By leveraging its wide geographical footprint and extensive product range, its track record of technological leadership and innovation, and a strong customer base, the company is well-placed to capitalise on its leading positions and win in new, growing markets. Prysmian’s business strategy perfectly matches key market drivers by developing resilient, high-performing, sustainable and innovative cable solutions in the segments of Transmission, Power Grid, Electrification and Digital Solutions. Prysmian is a public company listed on the Italian Stock Exchange, with almost 150 years of experience, about 30,000 employees, 108 plants and 26 R&D centres in over 50 countries, and sales of over €15 billion in 2023

### World-Leading Cable Solutions

The widest range of products, services, technologies and know-how.

The Group’s activities are divided into four business divisions, as follows:



**Transmission**

which includes the Submarine Power and Land HVDC business units, currently belonging to the Projects segment;



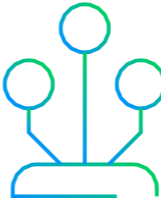
**Power Grid**

which includes the HVAC business unit, also currently in the Projects segment, and Power Distribution and Overhead Lines, currently part of the Energy segment;



**Electrification**

which includes the Industrial & Construction (now called Trade & Installer) and Specialties (formerly included in Industrial & NWC) business units, currently belonging to the Energy segment;



**Digital Solutions**

the current Telecom segment, which includes the following business units: Fiber and Optical Cables, Connectivity, Multimedia & Inside Plant cables (MMS).

# A History Of Innovation



The Shard, Londra



Hudson Transmission Project New York - New Jersey



Guggenheim Museum, Bilbao



WTC, New York



Burj Khalifa, Dubai

# Digital Solutions

Bridge The Digital Divide With Premium Data Solutions

## Connecting Communities To A New World

The world is in the midst of a data explosion. Across the globe, people are sharing, purchasing, downloading, streaming, connecting and communicating in the digital sphere. Living and working digitally is the new normal. And for network operators, this means managing an exponential increase in bandwidth to meet the world's rising demand. At Prysmian, our Digital Solutions business unit is building modern day networks that provide robust physical infrastructure, trusted IT security and long-term reliability.

## Our commitment to the digital transformation

At Prysmian, our Digital Solutions are realising the infrastructure of today and tomorrow, helping the world to meet its most pressing challenges. By pushing the boundaries of digitalisation, we will seize the opportunities offered by this new market trend and lead the digital transformation that is happening worldwide.

### Digitalisation

Data networks must support the exponential demands of IoT, 5G, connected buildings, Industry 4.0 and more. Ensuring high-speed connectivity in the core network, within data centres or at the edge.

### Network congestion

As the world demands more speed, our networks become increasingly overcrowded.

### Fast-paced, competitive markets

Our customers often work in markets that shift rapidly, and need to set themselves apart from the competition.

### Energy transition

The world needs cleaner and 'greener' energy supplies and telecoms networks. Fibre networks are the most sustainable of technologies.

# DATA CENTERS: PATHWAYS TO THE FUTURE

Virtual reality, augmented reality, 5G, the Internet of Things, smart homes, self-driving cars, and remote surgery all need better performance. These new technologies require faster data transmission, more fiber, ample power, and strong computing capabilities.

The first step is to build a reliable, secure, and flexible infrastructure. Data centers, often unnoticed, are the backbone of modern communities. They are crucial for our daily lives, storing, transmitting, and processing the information we create every second.

As we generate more data, the role of data centers becomes even more critical. In the future, new applications will produce vast amounts of data every millisecond, all around the world.

However, many current data centers are outdated, inefficient, and cumbersome. If data access is slow or unreliable, customer satisfaction will drop, revenue will decrease, and essential services might become inaccessible, leading to serious consequences.

**As the largest energy and telecoms manufacturer in the world, Prysmian is perfectly placed to support data center operators in meeting the demands of these new applications and this exponential growth – on a local and global scale.**



Your data center challenges – solved. We focus our efforts on developing state-of-the-art solutions to alleviate ever-increasing bandwidth concerns.



## Downtime threats

Downtime is a major issue not only for data center operators, but for business owners also. And, according to technical data center managers, the main causes of this downtime are low-quality and unreliable cables, or lengthy cable installation times



## Scaling challenges

Scalability is vital to accommodate next generation applications. However, data center operators often struggle to provide sufficient infrastructure to facilitate more demanding IT requirements



## Space Restrictions

Operators must accommodate the increasingly high volumes of fiber running in and out of their data centers, but often they must work with legacy infrastructures such as fiber raceways, ducts and manholes, to name a few.



## Data Center Evolution

The data center is at the foundation of modern software technology, serving a critical role in expanding capabilities for enterprises. The traditional data center uses a three-tier architecture, with servers segmented into pods (Point of Delivery) based on location, as shown in Figure 1.

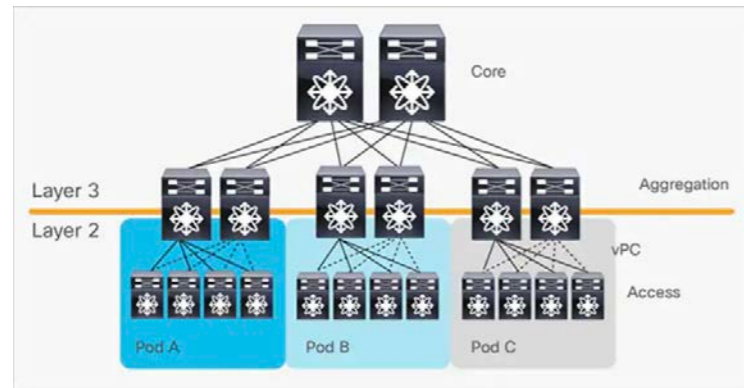


Figure 1. Traditional three-tier data center design

The architecture consists of core routers, aggregation routers (sometimes called distribution routers), and access switches. Between the aggregation routers and access switches, Spanning Tree Protocol is used to build a loop-free topology for the Layer 2 part of network. Spanning Tree Protocol provides several benefits: it is simple, and it is a plug-and-play technology requiring little configuration. VLANs are extended within each pod that servers can move freely within the pod without the need to change IP address and default gateway configurations. However, Spanning Tree Protocol cannot use parallel forwarding paths, and it always blocks redundant paths in a VLAN.

## Spine-and-Leaf Architecture

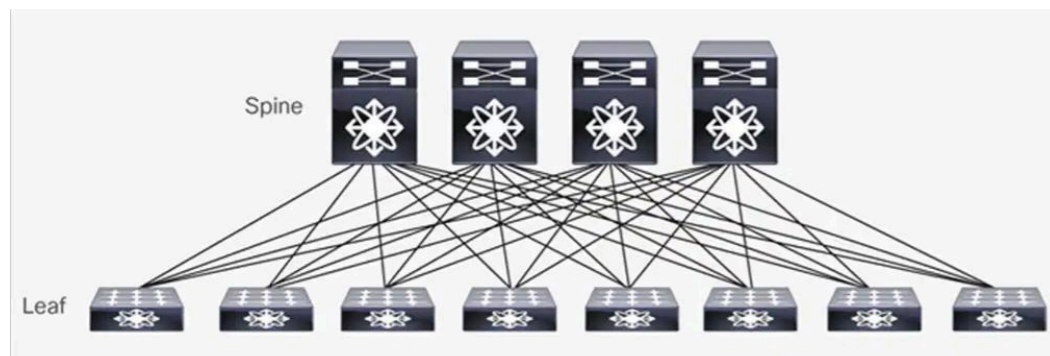


Figure 2. Spine-and-Leaf topology

In this two-tier Clos architecture, every lower-tier switch (leaf layer) is connected to each of the top-tier switches (spine layer) in a full-mesh topology. The leaf layer consists of access switches that connect to devices such as servers. The spine layer is the backbone of the network and is responsible for interconnecting all leaf switches. Every leaf switch connects to every spine switch in the fabric. The path is randomly chosen so that the traffic load is evenly distributed among the top-tier switches. If one of the top tier switches were to fail, it would only slightly degrade performance throughout the data center.

If oversubscription of a link occurs (that is, if more traffic is generated than can be aggregated on the active link at one time), the process for expanding capacity is straightforward. An additional spine switch can be added, and uplinks can be extended to every leaf switch, resulting in the addition of interlayer bandwidth and reduction of the oversubscription. If device port capacity becomes a concern, a new leaf switch can be added by connecting it

to every spine switch and adding the network configuration to the switch. The ease of expansion optimizes the IT department's process of scaling the network. If no oversubscription occurs between the lower-tier switches and their uplinks, then a nonblocking architecture can be achieved.

With a spine-and-leaf architecture, no matter which leaf switch to which a server is connected, its traffic always has to cross the same number of devices to get to another server (unless the other server is located on the same leaf). This approach keeps latency at a predictable level because a payload only has to hop to a spine switch and another leaf switch to reach its destination.

## Data Center Network Architectures

There are several architectures from which network designers can choose. Which one you use will depend on the size of your current data center, your plans to expand, whether it's a new installation or an upgrade of a legacy system, and how quickly you expect your data center needs to grow there are three primary approaches in Data Centers

- Direct Connect (Centralized) or Direct connect from two equipment
- Zone Distribution including End-of-Row (EoR), Middle-of-Row MoR, Point-of-Delivery (PODs)
- Top-of-Rack (ToR)

## Centralized Architectures (Direct Connect)

This architecture requires each server to be connected back to core switches. This provides a very efficient utilization of port switches and easy to manage add move and change. Centralized direct connect works well and the best for small sized data centers.

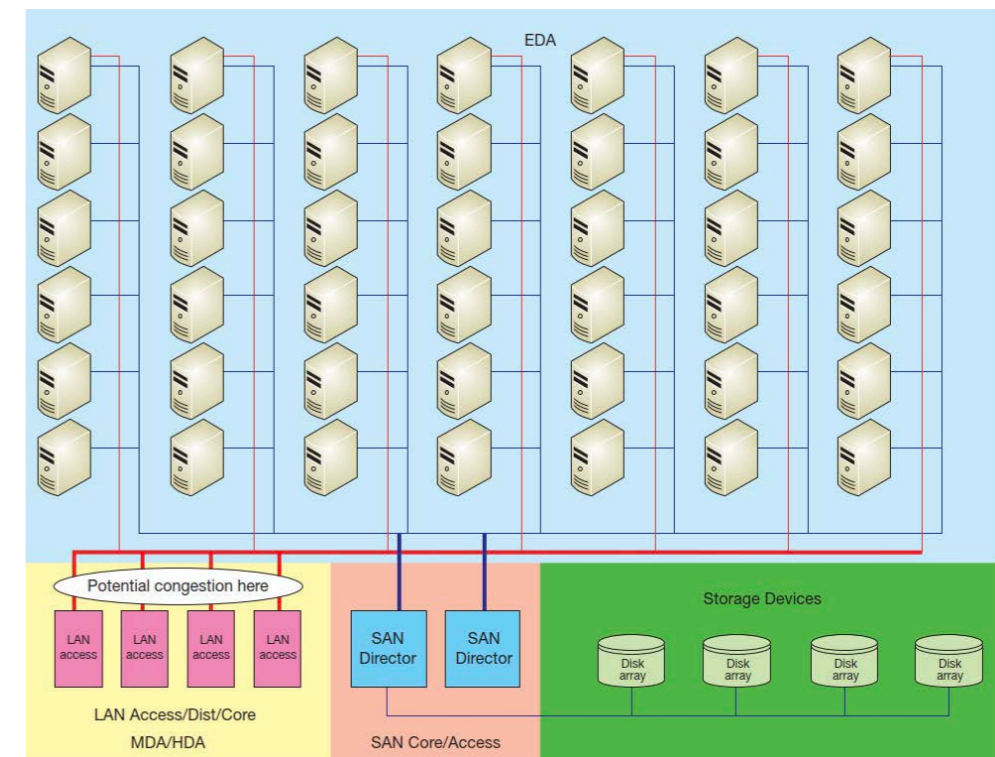


Figure 3. Centralized Architectures

## Centralized Architectures Pros & Cons

### Pros:

Very flexible design that will enable you to accommodate changes in your data center. Maximizes port use by enabling you to design switches to your current needs without having a lot of unused ports. This is a secure architecture, since switch network are in a single location. This architecture offers excellent physical control by reducing the number of administrative ports.

### Cons:

This architecture does not scale well, it difficult to support expansions. In larger data centers cable congestion can be a problem, especially coming back to the main distribution where your core switch is located. If use copper media you may run into some length limitations, especially at higher data rates. At 40 Gigabit Ethernet (40GBASE-T), for example, this architecture has the highest cabling cost, since too many individual cables are used.

## Zone Distribution Architectures

This solution can be implemented as end-of-row (EOR), middle-of-row (MOR), or point-of-delivery (POD) where a switch is used to support one or more racks containing the servers. This approach is usually the most cost-effective, as it provides the highest level of switch and port utilization.

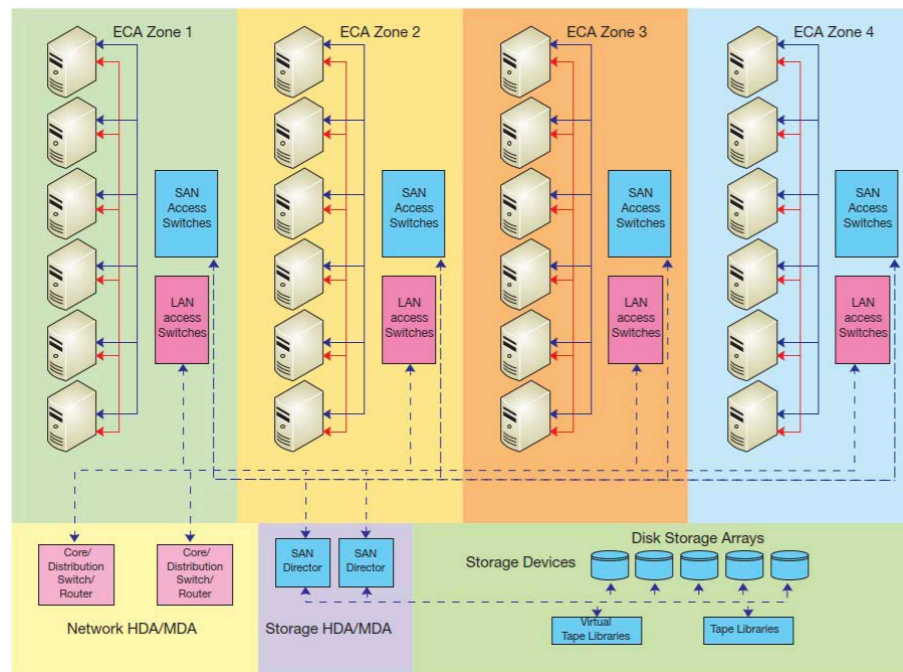


Figure 4. Zone Distribution Architectures

This can be a significant advantage from a compliance and security perspective. The distributed solution is the recommended cable architecture of TIA-942 Data Center Standards and is very scalable, repeatable and predictable. A common approach is to create a single bill of materials for each “zone” or “pod” design that contains the requirements for electronics, cabling required to add capacity in set increments.

## Zone Distribution Architectures Pros & Cons

### Pros:

The scalable, repeatable design makes it easy to upgrade and expand. You simply add a zone when you need more capacity. The repeatable, predictable design makes it easy to manage. This provides an excellent balance of cable cost and switch port use by maintaining flexibility while maximizing port efficiency. The design keeps cable bundles manageable because you are going very short distances in the row instead of between rows or home running cables all the way back to a centralized switch network. The architecture enables implementation of network applications with limited cable distances, don't have to worry about cable lengths or the number of connections

### Cons:

It may not be a suitable design for smaller data centers, because of the extra floor space required for the EoR or MoR switch cabinet. It may not work well with existing ToR configurations where the bulk of cabling is running inside the cabinet.

## Top of Rack Architectures

Top-of-Rack switching is a newer architecture and a viable choice for dense one rack unit (1RU). In this approach the Switch is placed at the top of the rack and all the servers in the rack are connected to this switch, which then has one uplink. In some instances, a pair of switches is used for high-availability purposes. This approach significantly simplifies cable management and avoids the rack space and cooling issues of end-of-row switching. This approach also provides some architectural advantages such as fast port-to-port switching for servers within the rack, predictable oversubscription of the uplink and smaller switching domains (one per rack) to aid in fault isolation and containment. cabling is utilized more efficiently in the top-of-rack architectures, there can be an increase in the cost of switches. The common challenge with the top-of-rack approach is under-utilization of ports, where there are not enough servers to fill the switch. One solution is to put one top-of-rack switch servers in adjacent racks: this preserves the advantages of the top-of-rack switch while increasing port utilization. Top-of-rack switching may be difficult to manage in large deployments, and you also have the potential for overheating of LAN/SAN switch in server racks.

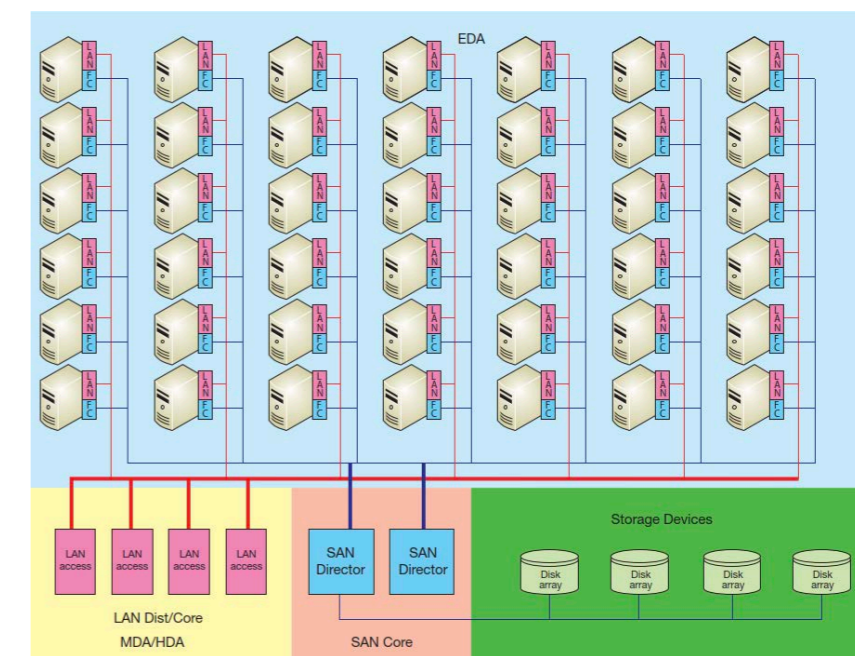


Figure 5. Top of Rack Architectures

## Top of Rack Architectures Pros & Cons

### Pros:

The ToR provides an efficient use of network cabling because most of your cabling is done within cabinet instead of running to EoR or Centralized Switch. Enables the efficient use of floor space, as you are not using space for extra cabinets for equipment at the end or middle of rows.

### Cons:

The Top of Rack architecture can be limiting as you move forward into newer technologies because the infrastructure to expand is not in place. Having all your switches located at the top of the racks is an inefficient use of your LAN/SAN switch ports. You often end up with unused ports because the capacities and the number of ports per switch that you may deploy may not match the number of the server port requirement.

This architecture is not energy efficient. Unused ports still consume power and produce heat that needs to be cooled. Top of Rack are more difficult to manage in large deployments because you would potentially have thousands of switches deployed throughout your data center space. It can also present security risks, not only physically but also logically when you are trying to deploy virtualized networks. LAN and switch gear potentially can overheat because of their ToR position.

## ANSI/TIA-942-B

The major modifications in ANSI/TIA-942-B from ANSI/TIA-942-A include:

- Added MPO-16 and MPO-32 (ANSI/TIA-604-18) and MPO-24 (ANSI/TIA-604-5) as options for termination of more than two fibers in addition to the MPO-12 connector
- Added category 8 as an allowed type of balanced twisted-pair cable. Changed recommendation for category 6A balanced twisted-pair cable to category 6A or higher.
- Added OM5 as an allowed and recommended type of multimode fiber cable.
- Added 75-ohm broadband coaxial cables and connectors as specified in ANSI/TIA-568.4-D as allowed types of coaxial cables and connectors.
- Added recommendation to not install optical fiber cords and cables (both bend insensitive and non-bend insensitive) without adequate armoring or sufficiently thick jacket in pathways that can create microbands, such as non-continuous cable supports, wire basket trays, and cable ladders without radiused cable supports or solid bottoms.
- Reduced quantity of convenience outlets required on computer room walls.
- Local fire protection codes may be used instead of NFPA 75.
- Power for air conditioning systems and controls in computer rooms and entrance rooms should be redundant, but do not need to be powered from the same PDUs or panel boards that serve ICT equipment in the room.
- Recommended maximum cable lengths for direct attach cabling in EDAs has been reduced from 10 m (33 ft) to 7 m (23 ft). Additional guidance added that direct attach cabling between rows is not recommended.
- Added recommendation that cabinets be at 1200 mm (48") deep and to consider cabinets wider than 600 mm (24") wide.
- Added recommendation to consider pre-terminated cabling to reduce installation time and improve consistency and quality of terminations

## Relationship to other TIA standards and documents

The following are related standards regarding various aspects of structured cabling that were developed and are maintained by Engineering Committee TIA TR-42. An illustrative diagram of the ANSI/TIA-568 Series relationship to other relevant TIA standards is given in figure 6

- ANSI/TIA-568.0-D, Generic Telecommunications Cabling for Customer Premises
- ANSI/TIA-568.1-D, Commercial Building Telecommunications Infrastructure Standard
- ANSI/TIA-568.2-D, Balanced Twisted-Pair Telecommunications Cabling and Components standard
- ANSI/TIA-568.3-D, Optical Fiber Cabling and Components Standard
- ANSI/TIA-568.4-D, Broadband Coaxial Cabling and Components Standard
- ANSI/TIA-569-D, Telecommunications Pathways and Spaces
- ANSI/TIA-606-C, Administration Standard for Telecommunications Infrastructure.
- ANSI/TIA-607-C, Telecommunications Bonding and Grounding (Earthing) for Customer Premises
- ANSI/TIA-758-B, Customer-Owned Outside Plant Telecommunications Infrastructure Standard
- ANSI/TIA-862-B, Structured Cabling Infrastructure Standard for Intelligent Building Systems.
- ANSI/TIA-5017, Telecommunications Physical Network Security Standard

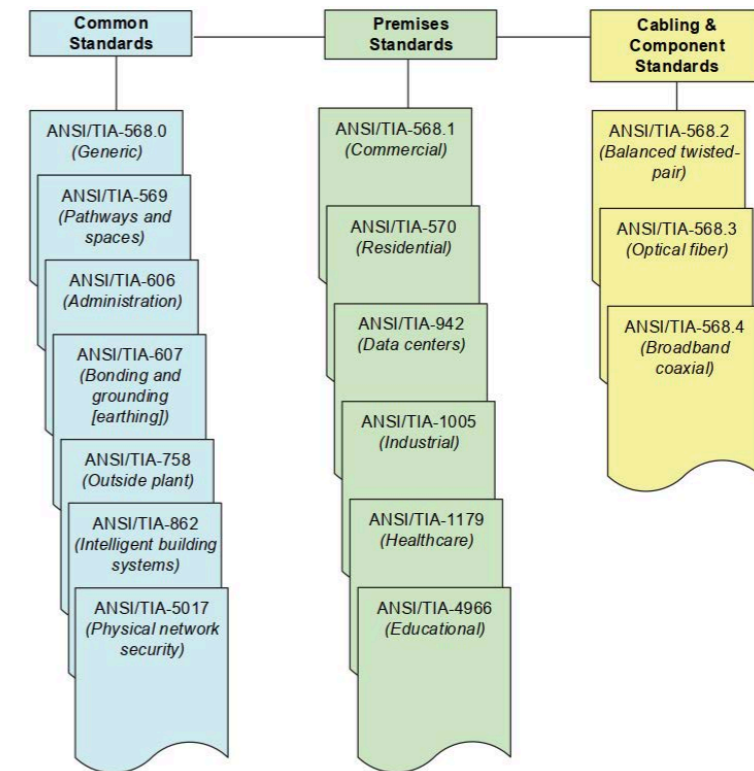


Figure 6: Illustrative relationship between the ANSI/TIA-568 Series and other relevant TIA Standards

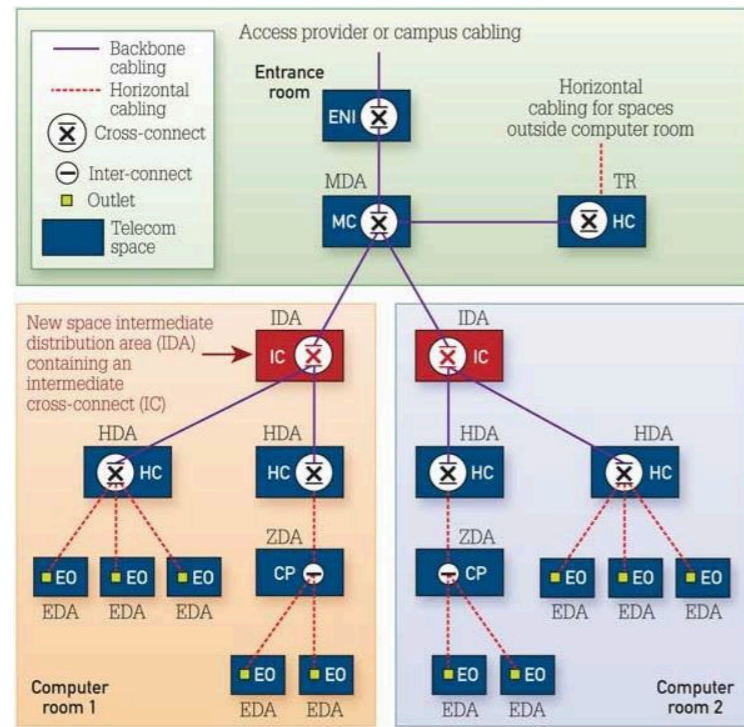


Figure 7: TIA 942-B Topology

- CP - Consolidation point
- EDA - Equipment distribution area
- ENI - External network interface
- EO - Equipment outlet
- HC - Horizontal cross-connect
- HDA - Horizontal distribution area
- IC - Intermediate cross-connect
- IDA - Intermediate distribution area
- MC - Main cross-connect
- MDA - Main distribution area
- TR - Telecommunications room
- ZDA - Zone distribution area

Data Center Applications

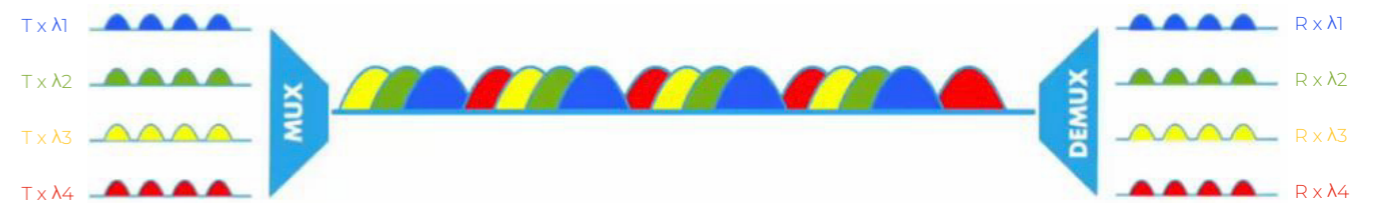
Most Common Data Center Applications			
Type	Application	Media	Support Distance
Copper	10GBASE-T	Category 6A	100m
	40GBASE-T	Category 8	30m
Fiber	10GBASE-SR	2-Core Multimode Fiber	300m/OM3, 550m/OM4, 550m/OM5
	10GBASE-LRM	2-Core Multimode Fiber	300m/OM3
	10GBASE-LX4	2-Core MM/SM Fiber	300m/OM3, 10,000m/SM
	10GBASE-LR	2-Core Singlemode Fiber	10,000m/SM
	10GBASE-ER	2-Core Singlemode Fiber	40,000m/SM
	25GBASE-SR	2-Core Multimode Fiber	70m/OM3, 100m/OM4, 100m/OM5
	25GBASE-LR	2-Core Singlemode Fiber	10,000m/SM
	25GBASE-ER	2-Core Singlemode Fiber	40,000m/SM
	40GBASE-SR4	8-Core Multimode Fiber	100m/OM3, 150m/OM4, 190m/OM5

Most Common Data Center Applications		
40GBASE-LR4	2-Core Singlemode Fiber	10,000m/SM
40G-SWDM4	2-Core Multimode Fiber	440m/OM5
100GBASE-10	20-Core Multimode Fiber	100m/OM3, 150m/OM4
100GBASE-SR4	8-Core Multimode Fiber	70m/OM3, 100m/OM4, 100m/OM5
100GBASE-LR4	2-Core Singlemode Fiber	10,000m/SM
100GBASE-ER4	2-Core Singlemode Fiber	40,000m/SM
100G-SWDM4	8-Core Multimode Fiber	150m/OM5
100GBASE-DR	2-Core Singlemode Fiber	500m/SM
200GBASE-SR4	8-Core Multimode Fiber	100m/OM4, 100m/OM5
200GBASE-FR4	2-Core Singlemode Fiber	2,000m/SM
200GBASE-DR4	8-Core Singlemode Fiber	500m/SM
200GBASE-LR4	2-Core Singlemode Fiber	10,000m/SM
400GBASE-SR4.2	8-Core Multimode Fiber	150m/OM5
400GBASE-DR4	8-Core Singlemode Fiber	500m/SM

OM5 - what brings the new fiber class

WideBand multimode fibers for SWDM

Today, multimode fibers (MMFs) of the OM3 and OM4 classes are the preferred media for Ethernet and Fiber Channel applications operating at 850 nm with NRZ modulation. If the data rate is to be increased, the effective bandwidth is limited by the modal dispersion of the MMF and the low VCSEL bandwidth. To overcome this limitation, parallel fiber links operating at 10 and 25 Gbps line speed are used to multiply the capacitance. However, this approach requires an infrastructure based on multi-fiber connection technology (MPO). To continue the proven 2-fiber structures is a 100 Gbps solution and moreover, using a single MMF would be preferable. In this context, WDM techniques can be used. For comparison, an OM4-MMF provides a high modal bandwidth, but only a narrow wavelength range centered at 850 nm, limiting its WDM capabilities. The cost-effective operation of at least four WDM channels, each with 25 Gbps, requires high-bandwidth broadband MMFs over an extended wavelength range of 100nm. For backward compatibility, the 850nm wavelength was maintained, resulting in the operating window of 850 to 950nm





The performance of Multimode fiber in a system is related to the effective bandwidth, which is a function of the effective modal bandwidth (EMB) and chromatic dispersion. In order to guarantee a constant effective bandwidth of 2,000 MHz \* km, the EMB must be 4.700 MHz \* km at 850 nm and must not be less than 2.700 MHz \* km up to 950 nm (see Figure 9). WideBand MMFs that meet these specifications are made by optimizing the core profile and tuning the alpha parameter in the GI core glass to shift the peak EMB to 880 nm. OM5 WideBand Multimode fiber were measured at various wavelengths of 850 to 950 nm using a tunable titanium-sapphire laser. The resulting typical EMB is shown in Figure 8, as are those of OM4 Multimode for comparison. The curves show a peak EMB at 875nm optimized OM5 WideBand Multimode fiber, while the standard Multimode of the OM4 type has a narrow EMB distribution centered at 850nm. As a result, OM5 Multimode fiber fulfill the EMB specification, while standard OM4 fail at approx. 900nm.

To demonstrate the WDM capability of wide-band MMFs for existing and future system applications, BER tests were performed at 28 Gbps at 850 and 980 nm. The BER evaluation shows the required power reserve after 100m transmission. In addition, the BER was determined using a commercially available 40Gbps duplex transceiver that uses 2 WDM channels, each with 20Gbps at 850 and 900nm. Up to 300m of error-free transmission (BER <10<sup>-12</sup>) via wide-band MMF is thus possible, which corresponds to the double range of this transceiver. Four WDM channels with 25.8 Gbps from 850 to 950nm with a distance of 30nm and a capacity of 100G reached a distance of 200 m with error-free transmission.

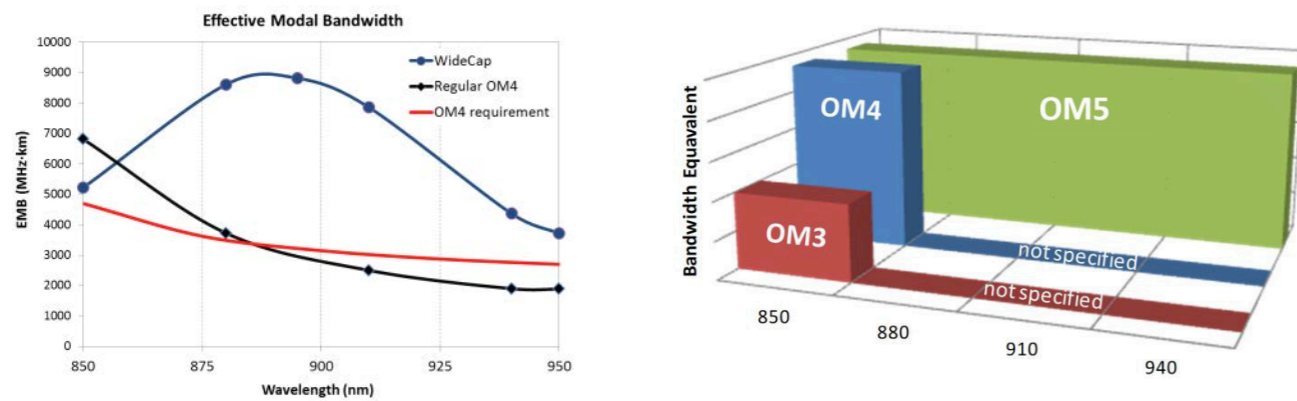


Figure 9 OM5 Bandwidth

The capacity can be further increased by implementing advanced modulation formats such as PAM-4. In the laboratory, a 180Gbps transmission over a WideBand MMF with four 45Gbps PAM-4 WDM signals was successfully realized, the BER of which had a range of over 300 m, while a maximum of 150 m was achieved with OM4-MMF. These results show the performance data of WideBand MMFs to realize 40, 100 or 200Gbps without the need for parallel fiber optic infrastructures

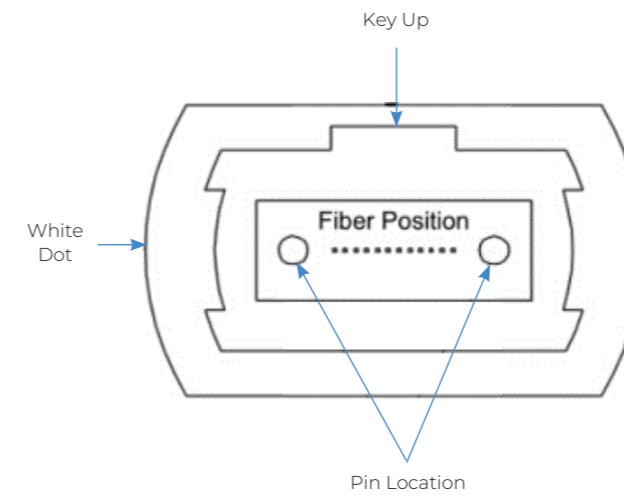
### Fiber Connector in Data Center

LC Connector Simplex or duplex Multimode or Singlemode fiber uses LC connectors because they are used in the transceivers for their smaller size. Parallel fiber optics cable assemblies use the MPO connector which has 8, 12 or 24



Figure 10 LC Connector and SFP Port

### Parallel Fiber Connector



Parallel array transmission systems for 40Gbps/100Gbps on Multimode fiber generally use a multifiber array connector called MPO or sometimes by a trade name MTP. These connectors use a large rectangular molded plastic ferrule with one or more rows of 12 fibers. There are two different connectors, one with pins (MPO/Male) sticking out from the end of the rectangular plastic ferrule from the connector the other has holes instead of pins (MPO/Female). The MPO connector relies on the pins and holes to align the ferrules for the entire row(s) of fibers between the pins. As shown in the picture, the MPO connector can have 1 to 6 rows of 12 fibers each, although only three versions, 8, 12 or 24 fibers, have gained significant market acceptance

There are also multimode and Singlemode versions of the MPO. The multimode versions have flat ferrules but the Singlemode versions have angled ferrules at the same 8-degree angle used on regular single fiber APC connectors. However, the Singlemode ferrules do not have an angle across the entire surface, only about 2/3 of the ferrule, so when two ferrules are mated, only the center 1/3 of the ferrule is actually mating.

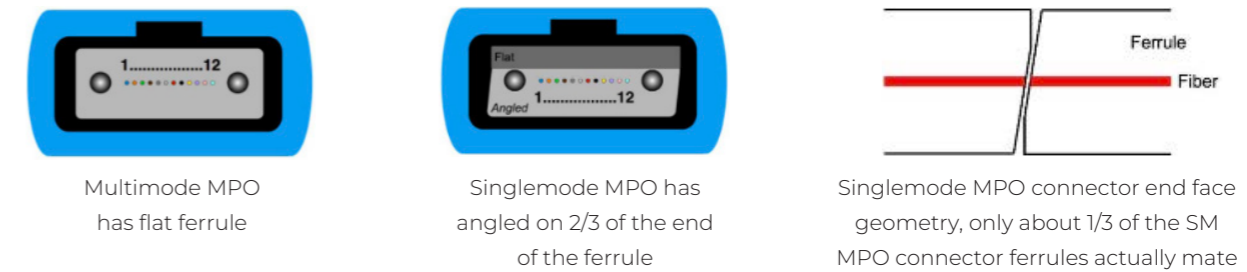
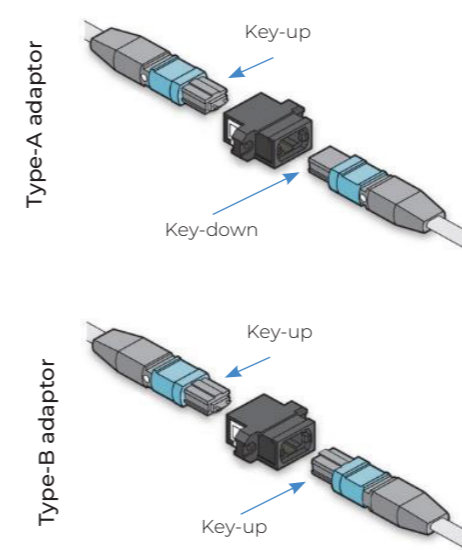


Figure 11 MPO Connectors

### MPO Adaptor

MPO (Male) connectors are mated to MPO (Female) connectors using a MPO adaptor. Each MPO connector has a key, there are two types of MPO adaptors



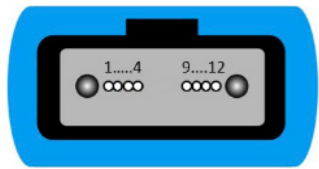
#### MPO Adaptor Type-A

Key-up to Key-down, the key is up on one side and down on the other side. The two connectors are connected turned 180 degree in relation to each other

#### MPO Adaptor Type-B

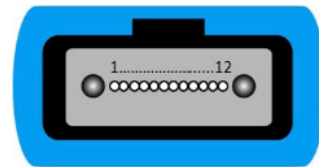
Key-up to Key-up, the both side key is up. Two connectors are connected while in the same position in relation to each other

## MPO BASE-8, BASE-12 and BASE-24 Trunk Cable

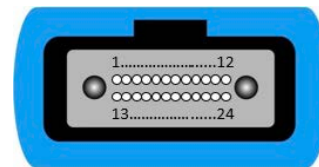


MPO-8 supports duplex application up to four channels, and compatible with QSFP transceivers that utilize the 8 fibers to provide four lanes per MPO port refer to application table such as 40GBase-SR4, 100GBase-SR4. The MPO-8 interface is not standard recognized infrastructure interface. It is an application that happens to use 8 of the 12 fiber positions of the industry standard MPO-12. The QSFP application uses

the outer 4 fiber locations (1-4 and 9-12) of the MPO-12 connector with 4 fibers used to transmit and 4 fibers used to receive. A QSFP transceiver does not use the center 4 fiber positions in the MPO-12 connector. While a standard MPO-12 cable will fully support this application, leaving fibers unused is not desirable. For this reason, cables and connectors can be constructed with MPO-12 connectors simply not providing or terminating the center four fibers as shown above. MPO-8 is an efficient choice for point-to-point QSFP trunking applications, offering the lowest panel density of all MPO systems. However, it is the least efficient choice for duplex applications.



MPO-12 is a standard interface for multimode and Singlemode applications and is used with both duplex and parallel applications. MPO-12 is the most common connector/trunking cabling interface, which offers lower density for duplex applications versus MPO-24 systems and better density for duplex applications compared to MPO-8 systems and MPO-12 is backward compatible with MPO-8 application.



MPO-24 The most cost-effective method to deploy both parallel and duplex fiber optic. Its 24 fibers provide more density than three MPO-8 connectors or two MPO-12 connectors, expediting cleaning and inspection time during its installation MPO-24 can also support more parallel applications compared to MPO-8 or MPO-12 systems. For instance, the 100G SR-10 application requires 10 pairs of Multimode fiber in a 10x10G configuration, whereas MPO-24 provides simple, direct support for 100G

## MTP/MPO Trunk Cables

There are three different MTP/MPO array patch cords defined in the TIA standard. The three different cables: Type A, B and C are used for the three different connectivity Methods A, B and C respectively

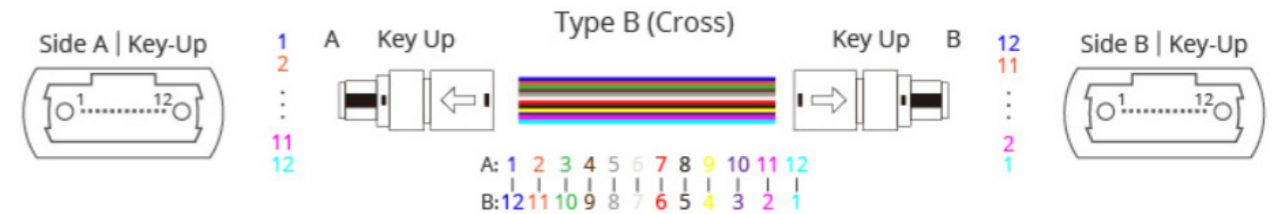
### Trunk Cable TYPE-A

Method-A MPO trunk Cable also known as straight cable is a straight through cable with a key-up MPO connector on one end and key-down MPO connector on the opposite end. This make the fibers at each end of the cable have the same fiber position. For example, the fiber located at position 1 of the connector on one side will arrive at position 1 at the other connector end. The fiber sequence of a 12 fibers MPO TRUNK TYPE-A is showed as below



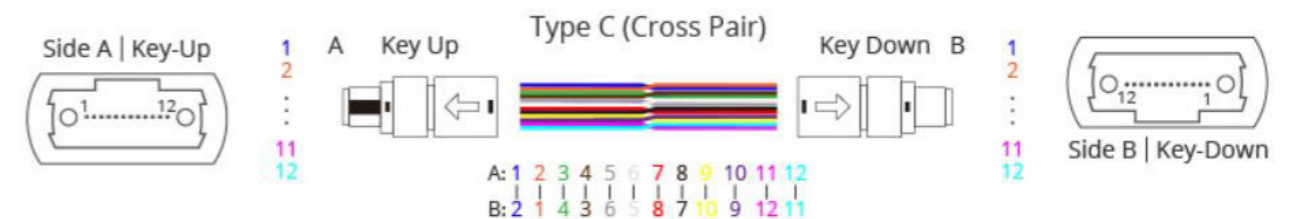
### Trunk Cable TYPE-B

Method-B MPO trunk Cable also known as totally flipped cable or reversed cable with a key-up MPO connectors on both ends of the cable. This type of array mating results in an inversion which means the fiber positions are reversed at each end. The fiber at position 1 at one end is mated with fiber position 12 at the other connector end. This cable type will be use for equipment direct patching or patch cord direct patching between two devices. The fiber sequence of a 12 fibers MPO TRUNK TYPE-B is showed as below



### Trunk Cable TYPE-C

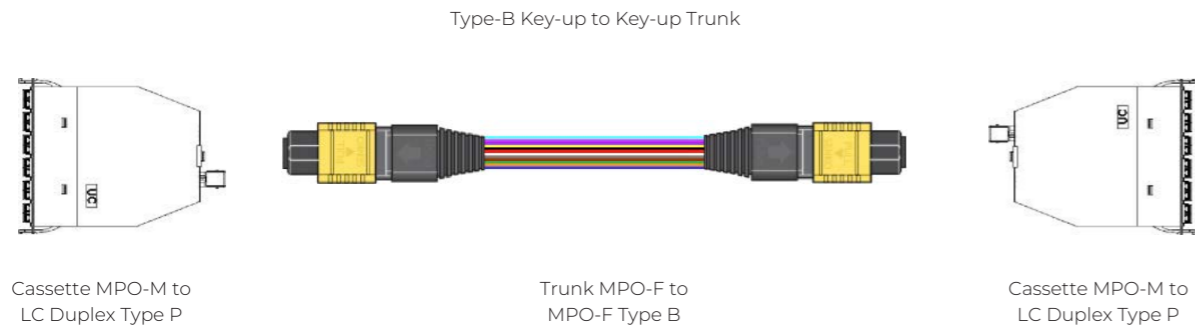
Method-C MPO trunk Cable also known as pairs flipped cable looks like Type-A cable with a key-up MPO connector on one end and key-down MPO connector on the opposite end. But each adjacent pair of fibers at one end are flipped at the other end. For example, the fiber at position 1 on one end is shifted to position 2 at the other end of the cable. The fiber at position 2 at one end is shifted to position 1 at the opposite end etc. The fiber sequence of a 12 fibers MPO TRUNK TYPE-A is showed as below



## MPO Trunk Cable

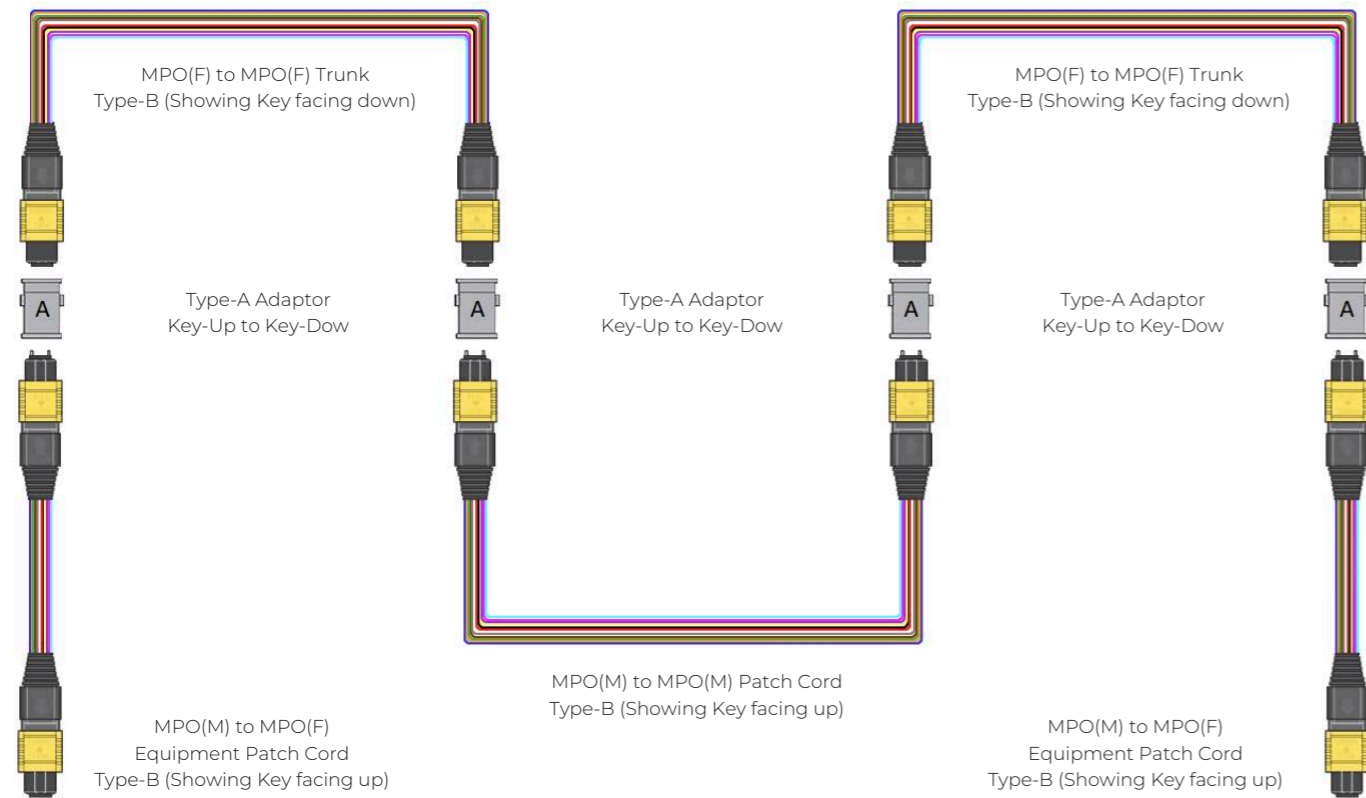
MPO Solution recommends MPO Trunk cable method B key up to key up and Type-B MPO adapters to link straight-through key up to key up trunk cables to fiber cassettes for Multimode solution and Type-A MPO adapters for Singlemode solution. The fiber channel is completed by using with MPO/LC Cassette. MPO Cassette Method B does so by inverting each pair of LC connector inside the cassette. Type P (Pair Flipped) cassette used in the link is the same as both ends. A-to-B patch cord are the same at the beginning and end of the link. This methodology makes all MPO solution easy to maintain fiber polarization and implementation.

## Duplex Application Design



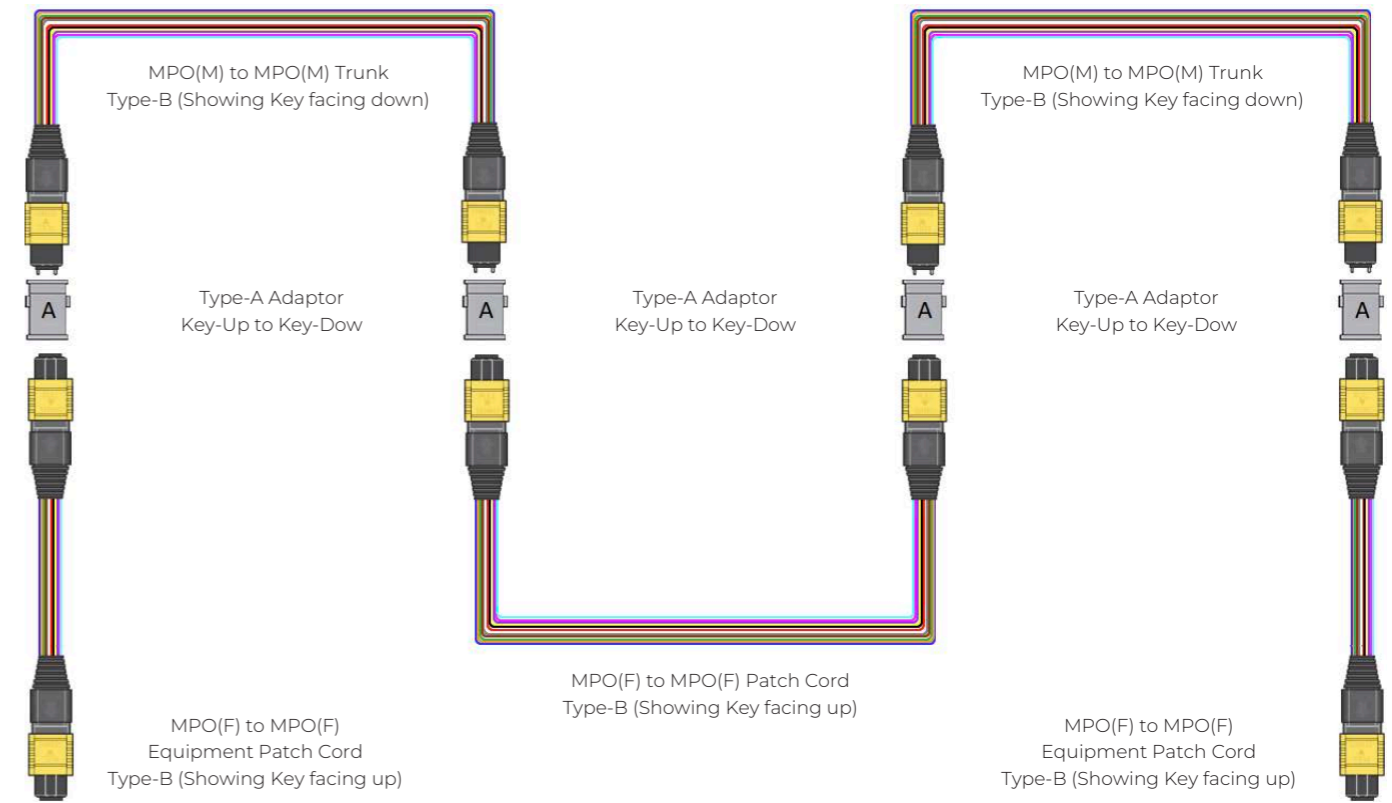
## Parallel Application Design

The first solution is support MPO-8, MPO-12 and MPO-24 both Multimode and Singlemode solution and support migration from MPO duplex application by remain the existing MPO trunk which is using MPO Female to MPO Female connector at both ends. This design able to support most of the application require 8 core application such as 40GBase-SR4, 100GBase-SR4, 200GBase-DR4 etc. the advantage of this design is able to re-use the existing MPO female trunk cable to migrate to parallel applications



Parallel MPO Solution (Using Female Trunk)

The second solution is supporting green field implementation it is using different Trunk cable from the previous MPO duplex application by using MPO male connector on both ends. The advantage for this design is utilize the same patch cord everywhere

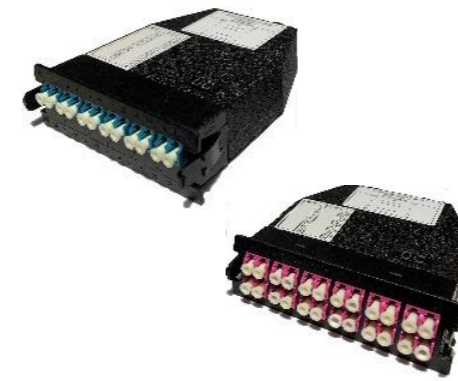


Parallel MPO Solution (Using Male Trunk)

# FIBER OPTIC SOLUTIONS



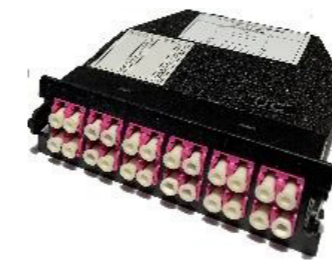
## UC9500 MPO Solution Duplex Fiber Optic Applications



### 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

Description	Part Number			
	OM3	OM4	OM5	SM
UC9500 MPO-LC Module 12F	PPMLPM19561D-P12	PPMLPM19551D-P12	PPMLPM19571D-P12	PPMLPM19541D-P12
UC9500 MPO-LC Module 24F	PPMLPM29566D-P24	PPMLPM29556D-P24	PPMLPM29576D-P24	PPMLPM29546D-P24



### UC9500 MPO-LC, Low Loss module, Type-P, MPO-24 Base

- Available for Multimode and Singlemode
- 24F (1XMPO-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

Description	Part Number			
	OM3	OM4	OM5	SM
UC9500 MPO-LC Module 24F	PPMLPM39566D-P24	PPMLPM39556D-P24	PPMLPM39576D-P24	PPMLPM39546D-P24



### UC9500 FIBER PATCH PANEL

- 1RU Fiber Patch Panel, fixed and sliding style
- Easy fix-up to 4 MPO-LC Module up to 96F
- Optional Cable management for Fixed Type
- Including Front Cable management for Sliding Type

Description	Part Number	
	Fixed Type	Sliding Type
UC9500 Fiber Patch Panel 1RU	PP9510	PP9515

## UC9500 MPO Solution Parallel Fiber Optic Applications



### UC9500 MPO ADAPTOR

- 6 Port MPO Adaptor Snap-In front panel
- MPO-8, MPO-12 and MPO-24 Base compatible
- Support Multimode and Singlemode
- Compatible with UC9500 Fiber Patch Panel Series

Description	Part Number	
	Type-A	Type-B
UC9500 MPO front adaptor	PPA9516-6MA	PPA9516-6MB

## UC9600 MPO Solution Duplex Fiber Optic Applications



### UC9600 MPO-LC, LOW LOSS MODULE

- Type-P, MPO-8, MPO-12 and MPO-24 Base
- Available for Multimode and Singlemode
- 24F 3XMPO-8, 2XMPO-12 or 1XMPO-24 Cassette
- High Density up to 144F 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

Description	Part Number			
	OM3	OM4	OM5	SM
UC9600 MPO-LC Module MPO-8	PPMLPM09662D-P24	PPMLPM09652D-P24	PPMLPM09672D-P24	PPMLPM09642D-P24
UC9600 MPO-LC Module MPO-12	PPMLPM29662D-P24	PPMLPM29652D-P24	PPMLPM29672D-P24	PPMLPM29642D-P24
UC9600 MPO-LC Module MPO-24	PPMLPM39662D-P24	PPMLPM39652D-P24	PPMLPM39672D-P24	PPMLPM39642D-P24



### UC9600 FIBER PATCH PANEL

- 1RU, 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

Description	Part Number		
	1RU	2RU	4RU
UC9600 Fiber Patch Panel	PP9610	PP9620	PP9640

## 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

### MPO-MPO Female Trunk Cable Type-A

Description	Part Number			
	OM3	OM4	OM5	SM
MPO(F)-MPO(F) MPO-8	ETA51PF1PF1LAQL-XXX	ETA52PF1PF1LVLL-XXX	ETA53PF1PF1LLGL-XXX	ETA93PF1PF1LYLL-XXX
MPO(F)-MPO(F) MPO-12	TTA51PF1PF1LAQL-XXX	TTA52PF1PF1LVLL-XXX	TTA53PF1PF1LLGL-XXX	TTA93PF1PF1LYLL-XXX
MPO(F)-MPO(F) MPO-24	FTA51PF3PF3LAQL-XXX	FTA52PF3PF3LVLL-XXX	FTA53PF3PF3LLGL-XXX	FTA93PF3PF3LYLL-XXX

**Note: XXX – Length in meter 5 = 5m, 10 = 10m**

### MPO-MPO Male Trunk Cable Type-A

Description	Part Number			
	OM3	OM4	OM5	SM
MPO(M)-MPO(M) MPO-8	ETA51PM1PM1LAQL-XXX	ETA52PM1PM1LVLL-XXX	ETA53PM1PM1LLGL-XXX	ETA93PM1PM1LYLL-XXX
MPO(M)-MPO(M) MPO-12	TTA51PM1PM1LAQL-XXX	TTA52PM1PM1LVLL-XXX	TTA53PM1PM1LLGL-XXX	TTA93PM1PM1LYLL-XXX
MPO(M)-MPO(M) MPO-24	FTA51PM3PM3LAQL-XXX	FTA52PM3PM3LVLL-XXX	FTA53PM3PM3LLGL-XXX	FTA93PM3PM3LYLL-XXX

**Note: XXX – Length in meter 5 = 5m, 10 = 10m**

### MPO-MPO Female Trunk Cable Type-B

Description	Part Number			
	OM3	OM4	OM5	SM
MPO(F)-MPO(F) MPO-8	ETB51PF1PF1LAQL-XXX	ETB52PF1PF1LVLL-XXX	ETB53PF1PF1LLGL-XXX	ETB93PF1PF1LYLL-XXX
MPO(F)-MPO(F) MPO-12	TTB51PF1PF1LAQL-XXX	TTB52PF1PF1LVLL-XXX	TTB53PF1PF1LLGL-XXX	TTB93PF1PF1LYLL-XXX
MPO(F)-MPO(F) MPO-24	FTB51PF3PF3LAQL-XXX	FTB52PF3PF3LVLL-XXX	FTB53PF3PF3LLGL-XXX	FTB93PF3PF3LYLL-XXX

**Note: XXX – Length in meter 5 = 5m, 10 = 10m**

### MPO-MPO Male Trunk Cable Type-B

Description	Part Number			
	OM3	OM4	OM5	SM
MPO(M)-MPO(M) MPO-8	ETB51PM1PM1LAQL-XXX	ETB52PM1PM1LVLL-XXX	ETB53PM1PM1LLGL-XXX	ETB93PM1PM1LYLL-XXX
MPO(M)-MPO(M) MPO-12	TTB51PM1PM1LAQL-XXX	TTB52PM1PM1LVLL-XXX	TTB53PM1PM1LLGL-XXX	TTB93PM1PM1LYLL-XXX
MPO(M)-MPO(M) MPO-24	FTB51PM3PM3LAQL-XXX	FTB52PM3PM3LVLL-XXX	FTB53PM3PM3LLGL-XXX	FTB93PM3PM3LYLL-XXX

**Note: XXX – Length in meter 5 = 5m, 10 = 10m**

Note: for MPO array trunk cable please see MPO Trunk data sheet for more detail.

### 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

#### MPO(F)-MPO(F) PATCH CORD TYPE-B

Description	Part Number			
	OM3	OM4	OM5	SM
MPO(F)-MPO(F) MPO-8	EPCB51PF2PF2LAQL-X	EPCB52PF2PF2LVLL-X	EPCB53PF2PF2LLGL-X	EPCB93PF2PF2LYLL-X
MPO(F)-MPO(F) MPO-12	TPCB51PF1PF1LAQL-X	TPCB52PF1PF1LVLL-X	TPCB53PF1PF1LLGL-X	TPCB93PF1PF1LYLL-X
MPO(F)-MPO(F) MPO-24	FPCB51PF3PF3LAQL-X	FPCB52PF3PF3LVLL-X	FPCB53PF3PF3LLGL-X	FPCB93PF3PF3LYLL-X

**Note: X – Length in meter 3 = 3m, 5 = 5m**

#### MPO(M)-MPO(M) PATCH CORD TYPE-B

Description	Part Number			
	OM3	OM4	OM5	SM
MPO(M)-MPO(M) MPO-8	EPCB51PM2PM2LAQL-X	EPCB52PM2PM2LVLL-X	EPCB53PM2PM2LLGL-X	EPCB93PM2PM2LYLL-X
MPO(M)-MPO(M) MPO-12	TPCB51PM1PF1LAQL-X	TPCB52PM1PM1LVLL-X	TPCB53PM1PM1LLGL-X	TPCB93PM1PM1LYLL-X
MPO(M)-MPO(M) MPO-24	FPCB51PM3PF3LAQL-X	FPCB52PM3PM3LVLL-X	FPCB53PM3PM3LLGL-X	FPCB93PM3PM3LYLL-X

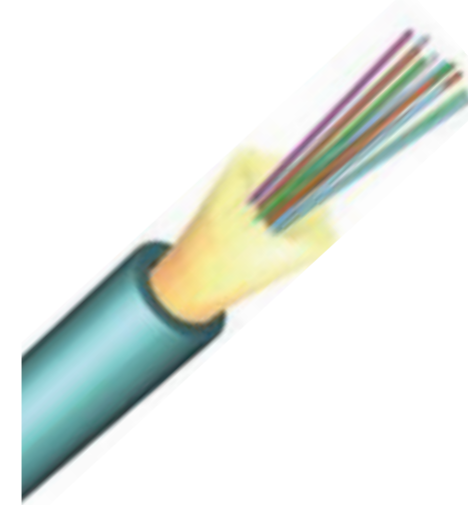
**Note: X – Length in meter 3 = 3m, 5 = 5m**

#### MPO(M)-MPO(F) PATCH CORD TYPE-B

Description	Part Number			
	OM3	OM4	OM5	SM
MPO(M)-MPO(F) MPO-8	EPCB51PM2PF2LAQL-X	EPCB52PM2PF2LVLL-X	EPCB53PM2PF2LLGL-X	EPCB93PM2PF2LYLL-X
MPO(M)-MPO(F) MPO-12	TPCB51PM1PF1LAQL-X	TPCB52PM1PF1LVLL-X	TPCB53PM1PF1LLGL-X	TPCB93PM1PF1LYLL-X
MPO(M)-MPO(F) MPO-24	FPCB51PM3PF3LAQL-X	FPCB52PM3PF3LVLL-X	FPCB53PM3PF3LLGL-X	FPCB93PM3PF3LYLL-X

**Note: X – Length in meter 3 = 3m, 5 = 5m**

### Field Terminate Fiber Optic Solution



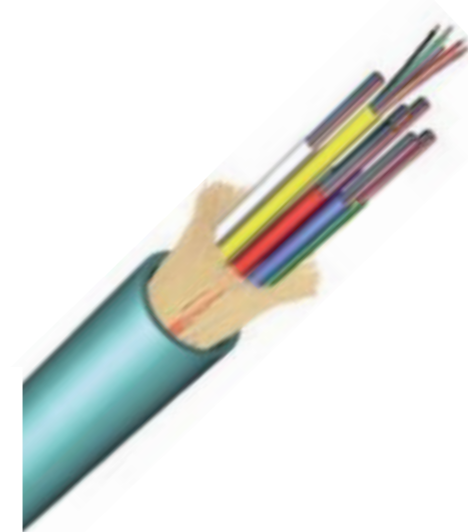
#### INDOOR FIBER CABLE

- 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 compliant to IEC60332-3-24, IEC60332-1, IEC60754-1/2, IEC61034-2
- Suitable for indoor installation requiring flame retardant, low smoke and halogen free environment

Description	Part Number			
	OM3	OM4	OM5	SM
Indoor Distribution 6F	MT006M3	MT006M4	MT006M5	MT006A1
Indoor Distribution 12F	MT012M3	MT012M4	MT012M5	MT012A1
Indoor Distribution 24F	MT024M3	MT024M4	MT024M5	MT024A1

#### INDOOR FIBER CABLE

- UCFIBRE™ 24~96 Core MTC Series Compact Indoor Distribution Cable, LSZH
- Fiber: 250um color coating fiber.
- Up to 40% more compact & lighter than standard indoor types but with lesser tensile load
- Sub-unit sheath: LSZH, 12F bare fiber within in the unit.
- Strength Member: Aramid yarn.
- Outer Sheath: LSZH comply to IEC60332-3-24, IEC60332-1, IEC60754-1/2, IEC61034-2
- Suitable for indoor installation requiring flame retardant, low smoke and halogen free environment



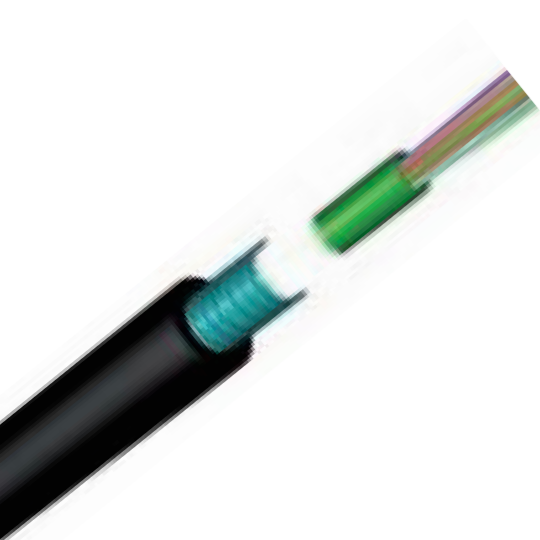
Description	Part Number			
	OM3	OM4	OM5	SM
Indoor Compact Distribution 24F	MTC024M3	MTC024M4	MTC024M5	MTC024A1
Indoor Compact Distribution 36F	MTC036M3	MTC036M4	MTC036M5	MTC036A1
Indoor Compact Distribution 48F	MTC048M3	MTC048M4	MTC048M5	MTC048A1
Indoor Compact Distribution 96F	MTC096M3	MTC096M4	MTC096M5	MTC096A1



### 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 Compliant to IEC60332-1, IEC60754-1/2, IEC61034-2, UL1581 UV resistant
- Suitable for Duct and Indoor/Outdoor Installations

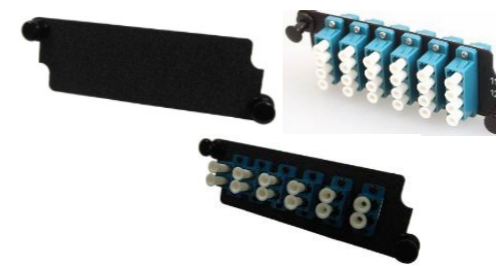
Description	Part Number			
	OM3	OM4	OM5	SM
Indoor/Outdoor All Dielectric 6F	UGM006M3	UGM006M4	UGM006M5	UGM006A1
Indoor/Outdoor All Dielectric 12F	UGM012M3	UGM012M4	UGM012M5	UGM012A1
Indoor/Outdoor All Dielectric 24F	UGM024M3	UGM024M4	UGM024M5	UGM024A1



### INDOOR/OUTDOOR FIBER CABLE

- UCFIBRE™ 2-24 Core UTM Series Steel Tape Armored, Uni-tube Cable, LSZH
- Uni Tube: thermoplastic material, containing up to 24 fibers
- filled with a suitable water tightness compound.
- Peripheral Strength Elements: aramid yarns.
- Armored: Steel Tape Armored
- Outer Sheath: LSZH Compliant to IEC60332-1, IEC60332-3.24, IEC60754-1/2, IEC61034-2, UL1581 UV resistant
- Suitable for Duct Buried and Indoor/Outdoor Installations

Description	Part Number			
	OM3	OM4	OM5	SM
Indoor/Outdoor Armored 6F	UTM006M3	UTM006M4	UTM006M5	UTM006A1
Indoor/Outdoor Armored 12F	UTM012M3	UTM012M4	UTM012M5	UTM012A1
Indoor/Outdoor Armored 24F	UTM024M3	UTM024M4	UTM024M5	UTM024A1



### UC9500 LC FRONT ADAPTOR

- 6 Port LC Duplex Adaptor Snap-In front panel
- 6 Port LC Quad Adaptor Snap-In front panel
- Capacity up to 96F per one RU
- Compatible with UC9500 Fiber Patch Panel Series

Description	Part Number	
	Multimode	Singlemode
6 Port LC Duplex Front Adaptor	PPA9514-6LCM4	PPA9514-6LC5M
6 Port LC Quad Front Adaptor	PPA9517-6LCM4	PPA9517-6LC5M
9500 Front Adaptor, Blank Plate	PPA9515-0	



### PIGTAIL

- High performance optical pigtails factory terminated and test
- Ultra-polish (UPC) supplied as standard
- Fiber: 900um color coating fiber (0.9mm)
- 6 or 12 colors code per one set (refer to TIA598 color coding)
- Low Smoke Zero Halogen
- Multimode back work compatible with OM2, OM3 and OM4

Description	Part Number		
	OM2/OM3/OM4	OM5	Singlemode
LC Pigtail 900um 1m	PT40LC-1	PT53LC-1	PT09LC-1
LC Pigtail 900um 6 colors code, 1m	S-PT40LC-1	S-PT53LC-1	S-PT09LC-1
LC Pigtail 900um 12 colors code, 1m	T-PT40LC-1	T-PT53LC-1	T-PT09LC-1



### SPLICE TRAY KIT

- Stackable with detachable cover
- High quality fingerprint and dust resistant surfaces
- Light weight and highly durable
- 24F version not include splice protective tube
- 48F version include splice protective tube
- Compatible with UC9500 Series
- stackable up to 2 splice tray per one RU

Description	Part Number	
	24F	48F
Splice Tray	PPST9521-24	PPST95-48
Splice Tray Cover	PPST9521-C	Included



### UCCONNECT FIBER PATCH CORD

- Factory terminated High Performance Ultra Polish Connector
- Duplex LC-LC Patch Cord LSZH Jacket performance
- ANSI EIA/TIA 568-C.3
- ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017
- Another connector type available

Description	Part Number			
	OM3	OM4	OM5	SM
LC-LC Duplex Fiber Patch Cord	PCDL03307-XX	PCDL04307-XX	PCDL05307-XX	PCDL00907-XX
<b>Note: XX – Length in meter 5 = 5m, 10 = 10m</b>				



### UCCONNECT UNIBOOT FIBER PATCH CORD

- Factory terminated High Performance Ultra Polish Connector
- Duplex LC-LC Patch Cord LSZH Jacket performance
- Uniboot Slim and Compact, Polarity convertible
- ANSI EIA/TIA 568-C.3
- ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017
- Another connector type available

Description	Part Number			
	OM3	OM4	OM5	SM
LC-LC Uniboot Fiber Patch Cord	PCUDL03307-XX	PCUDL04307-XX	PCUDL05307-XX	PCUDL00907-XX
<b>Note: XX – Length in meter 5 = 5m, 10 = 10m</b>				



### UCCONNECT UNIBOOT PUSH-PULL PATCH CORD

- Factory terminated High Performance Ultra Polish Connector
- Duplex LC-LC Patch Cord LSZH Jacket performance
- Uniboot Slim and Compact, Polarity convertible
- Push-Pull latch easy disconnect for high density port
- ANSI EIA/TIA 568-C.3
- ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017
- Another connector type available

Description	Part Number			
	OM3	OM4	OM5	SM
LC-LC Uniboot PP Fiber Patch Cord	PP-PCUDL03307-XX	PP-PCUDL04307-XX	PP-PCUDL05307-XX	PP-PCUDL00907-XX
<b>Note: XX – Length in meter 5 = 5m, 10 = 10m</b>				



### PATCH CORD SLACK STORAGE

- Suitable for installation into 19" rack mount
- Can be used to store patch cords prior to installation or to store patch cord overlength.
- Storage capacity of up to 2 meters of 24 patch cords 2.8mm OD, or 48 patch cords of 2.0mm OD
- Storage module pivots outwards for easy patch cord access.
- All fibers are positively bend managed to a 30mm radius
- Supplied with a large cover label and front panel labels for easy identification and data recording.
- Grey color

Description	Part Number
1RU Storage shelf	SRS1-300



# 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

Parameters	Part Number	
	White	Blue
UC400 CAT6 U/UTP Cable 4 pairs, 23AWG, LSZH, 305m	60075WH-3H	60075BL-3H
UC500 CAT6 F/UTP Cable 4 pairs, 23AWG, LSZH, 500m	61075WH-5H	61075BL-5H

## 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

Parameters	Part Number	
	White	Blue
UC500 CAT6A U/UTP Cable 4 pairs, 23AWG, LSZH, 500m	80075WH-5H	80075BL-5H
UC500 CAT6A F/UTP Cable 4 pairs, 23AWG, LSZH, 500m	83075WH-5H	83075BL-5H
UC400 CAT6 U/UTP Cable 4 pairs, 23AWG, LSZH, 305m	84075WH-5H	84075BL-5H

## 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

Description	Part Number	
	Flat	Angle
HD 1RU 24 Port Patch Panel Unloaded, Black	HDPPF0600BK	HDPPA0600BK
HD 1RU 48 Port Patch Panel Unloaded, Black	HDPPF0700BK	HDPPA0700BK



- RJ45 Modular Jack IDC Contact Cat 6 and Cat 6A  
 IEEE 802.3 10Base-T; 100Base-T; 1000Base-T; 10GBase-T (Cat 6A)  
 ANSI EIA/TIA 568.2-D, ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017  
 Shielded and Unshielded version  
 Tool-Less version  
 Including Smart Clip Lock Secure Cable

Description	Part Number		
	White	Blue	Metallic
HD Modular Jack Cat 6 Unshielded	HDMJTF1262BK	HDMJTF1262WH	N/A
HD Modular Jack Cat 6 Shielded	N/A	N/A	HDMJTF1261MA
HD Modular Jack Cat 6A Unshielded	HDMJTF1270BK	HDMJTF1270WH	N/A
HD Modular Jack Cat 6A Shielded	N/A	N/A	HDMJTF1271MA

## 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

Description	Part Number	
	White	Blue
UC400 Pre-Terminate Cat 6 U/UTP Trunk Cable, RJ45-RJ45, 6 Ports	P60075WH-06JJXX	P60075BL-06JJXX
UC500 Pre-Terminate Cat 6A F/FTP Trunk Cable, RJ45-RJ45, 6 Ports	P84075WH-06JJXX	P84075BL-06JJXX

**Note: XX – meter length, 05 = 5m, 10 = 10m**

## UCCONNECT Dual Boot Copper Patch Cord



Cat 6 and Cat6A stranded patch cord, LSZH  
 IEEE 802.3 10Base-T; 100Base-T; 1000Base-T; 10GBase-T (Cat 6A)  
 ANSI EIA/TIA 568.2-D  
 ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017  
 Shielded 26AWG and Unshielded 24AWG  
 Dual Boot Design  
 50u gold plating contact

Description	Part Number		
	Grey	Red	Blue
Cat.6 DBoot Patch Cord UUTP LSZH 24AWG	PC6120GY-XX	PC6120RD-XX	PC6120BL-XX
Cat.6 DBoot Patch Cord FUTP LSZH 26AWG	PC6220GY-XX	PC6220RD-XX	PC6220BL-XX
Cat.6A DBoot Patch Cord UUTP LSZH 24AWG	PC8120GY-XX	PC8120RD-XX	PC8120BL-XX
Cat.6A DBoot Patch Cord SFTP LSZH 26AWG	PC8420GY-XX	PC8420RD-XX	PC8420BL-XX

**Note: XX – length in meter, 5 = 5m, 10 = 10m**

## UCCONNECT Slim Flex Copper Patch Cord



Cat 6 and Cat 6A stranded patch cord, LSZH  
 IEEE 802.3 10Base-T; 100Base-T; 1000Base-T; 10GBase-T (Cat 6A)  
 ANSI EIA/TIA 568.2-D  
 ISO/IEC 11801-1: 2017 / ISO/IEC 11801-2: 2017  
 Shielded S/FTP 30AWG Cat 6A, Unshielded 28AWG Cat 6  
 Small Diameter 3.9mm Cat 6, 4.5mm Cat 6A  
 50u gold plating contact

Description	Part Number		
	Grey	Red	Blue
Cat.6 SLIMF Patch Cord UUTP LSZH 28AWG	PS9671GY-XX	PS9671RD-XX	PS9671BL-XX
Cat.6A SLIMF Patch Cord SFTP LSZH 30AWG	PS8671GY-XX	PS8671RD-XX	PS8671BL-XX

**Note: XX – length in meter, 5 = 5m, 10 = 10m**

UCCONNECT Lockable Copper Patch Cord and Port Block



Cat 6A Stranded Patch Cord 26AWG, LSZH  
 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  
 Secure connected and unused port from unauthorized  
 Require key to disconnect

Description	Part Number		
	Grey	Red	Blue
Cat.6A Lockable Patch Cord S/FTP LSZH 26AWG	PL8510GY-XX	PL8510RD-XX	PL8510BL-XX
RJ45 Port Block		RJ45PB-5	
Key To Release Secure Plug Of PI Series Patch Cord		KPPL1	
<b>Note: XX – length in meter, 5 = 5m, 10 = 10m</b>			

Patch Cord Slack Storage



19" 1U Cable Management 3-inch depth  
 Plastic high-quality light-weight design

- Supplied with front cover for neat cabling
- RoHS Compliant

Description	Part Number
Cable Management 19" 1U 3 Inch Plastic	CM1U9861

Blank Panel Snap-On



Snap-in easily push and turn knob lock no tools required  
 Allows installation in round tapped holes or in square holes.  
 Complies with ANSI/TIA/EIA-310-D 19" 1U rack mount  
 ABS plastic RoHS Compliant

Description	Part Number
Rack Space Cover Flat ABS 1RU	RSCFA1

# UC FIBER CONNECT

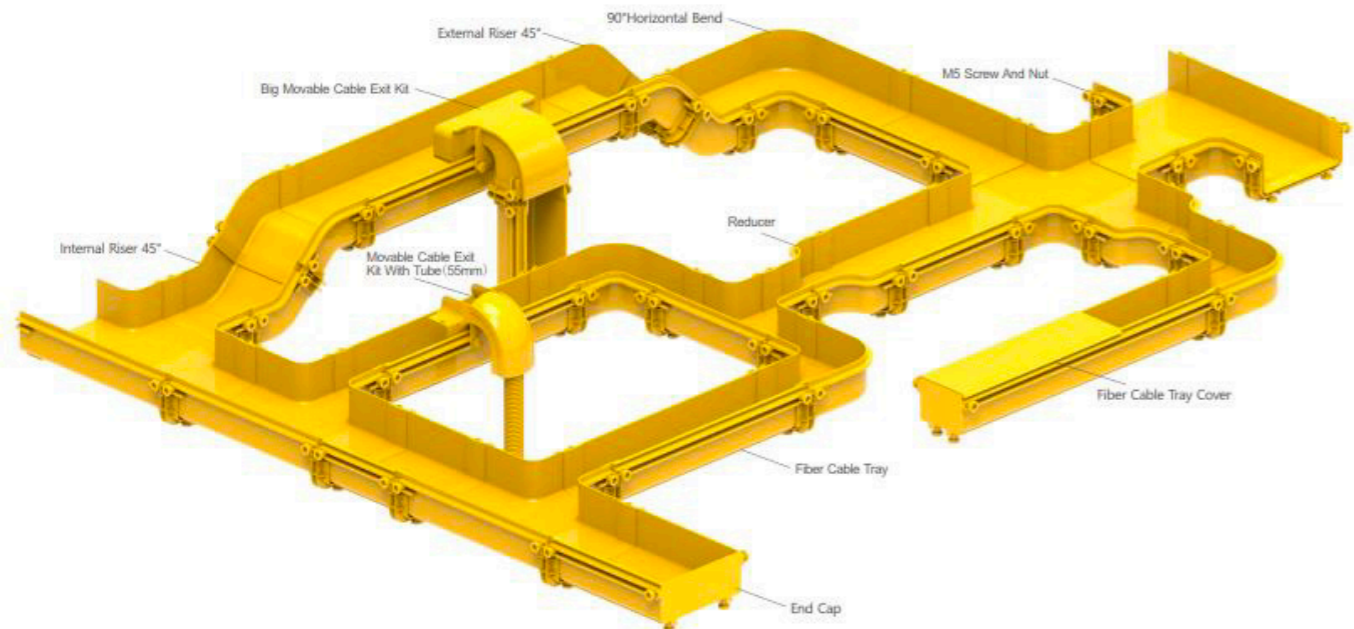
Fiber Containment is a system designed to protect and route fiber optic patch cords, cable assemblies, MPO Trunk Cable and MPO Patch Cord from network cabinet, ODF and other area. UC Fiber Connect is fiber containment offers ideal solutions for optical raceway requirements and applications with elegant 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 existing 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 Straight Section

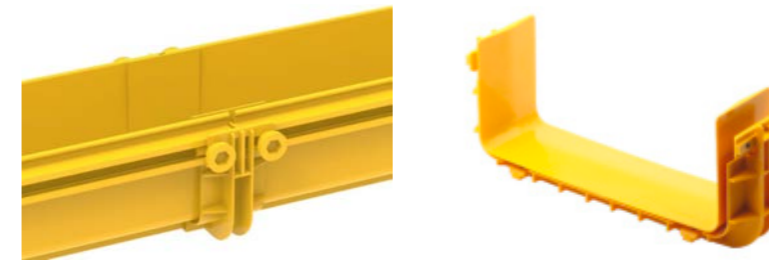


Four different size UC Fiber Connect

- 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

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Straight Section, 2 meters, Yellow	UCFC ST 120	UCFC ST 240	UCFC ST 300	UCFC ST 360
UCFC Straight Section, Cover, 2 meters, Yellow	UCFC ST C 120	UCFC ST C 240	UCFC ST C 300	UCFC ST C 360

## UC Fiber Connect Connector

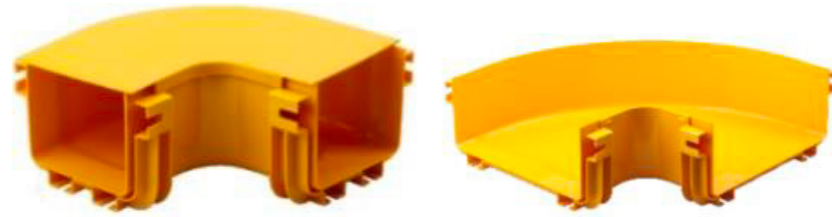


Connect to Straight Section  
Supply with

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

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Connector, Yellow	UCFC CO 120	UCFC CO 240	UCFC CO 300	UCFC CO 360

## UC Fiber Connect 90° 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

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Horizontal Elbow 90°, Yellow	UCFC HE 90 120	UCFC HE 90 240	UCFC HE 90 300	UCFC HE 90 360
UCFC Horizontal Elbow 90°, Cover, Yellow	UCFC HE 90 C 120	UCFC HE 90 C 240	UCFC HE 90 C 300	UCFC HE 90 C 360

## UC Fiber Connect 90° 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

- 12 Screw and nut for 120 and 240 series
- 15 Screw and nut for 300 series

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Horizontal TEE, Yellow	UCFC HT 120	UCFC HT 240	UCFC HT 300	UCFC HT 360
UCFC Horizontal TEE, Cover, Yellow	UCFC HT C 120	UCFC HT C 240	UCFC HT C 300	UCFC HT C 360

## UC Fiber Connect Horizontal Tee Dual 240 to 120



Connect Straight Section two 240 to one 120 Section

Build-in Connector fast and easy installation

Cover available

Supply with

- 12 Screw and nut

Description	Part Number
	240 Series
UCFC Horizontal Tee dual 240 to 120 Series, Yellow	UCFC HT 240 120
UCFC Horizontal Tee dual 240 to 120 Series, Cover, Yellow	UCFC HT C 240 120

## UC Fiber Connect Horizontal Cross



Connect to Straight Section

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

Cover available for 120 and 240 series

- 16 Screw and nut for 120 and 240 series
- 20 Screw and nut for 300 series

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Horizontal Cross, Yellow	UCFC HC 120	UCFC HC 240	UCFC HC 300	UCFC HC 360
UCFC Horizontal Cross, Cover, Yellow	UCFC HC C 120	UCFC HC C 240	UCFC HC C 300	UCFC HC C 360

### UC Fiber Connect Up Elbow 45°



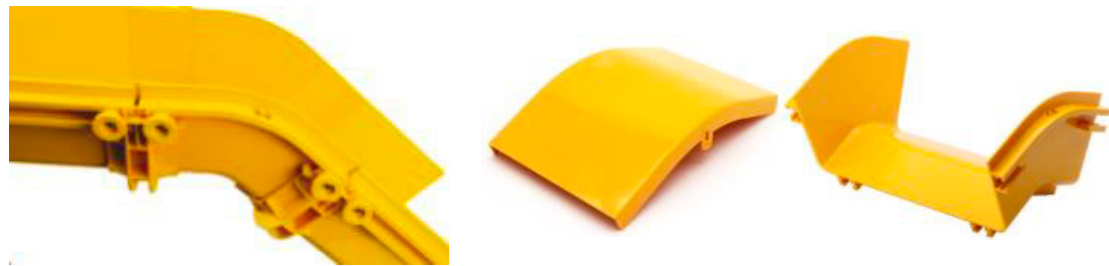
Connect to Straight Section and required 2 Connectors to joint

Cover available for 120 and 240 series

For UP ELBOW 90° require 2 pieces of 45° connect with connector and need two connectors to connect to straight section both side

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Up Elbow 45°, Yellow	UCFC UE 45 120	UCFC UE 45 240	UCFC UE 45 300	UCFC UE 45 360
UCFC Up Elbow 45°, Cover, Yellow	UCFC UE 45 C 120	UCFC UE 45 C 240	N/A	UCFC UE 45 C 360

### UC Fiber Connect Down Elbow 45°



Connect to Straight Section and required 2 Connectors to joint

Cover available for 120 and 240 series

For DOWN ELBOW 90° require 2 pieces of 45° connect with connector and need two connectors to connect to straight section both side

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Down Elbow 45°, Yellow	UCFC DE 45 120	UCFC DE 45 240	UCFC DE 45 300	UCFC DE 45 360
UCFC Down Elbow 45°, Cover, Yellow	UCFC DE 45 C 120	UCFC DE 45 C 240	N/A	UCFC DE 45 C 360

### UC Fiber Connect Vertical Tee



Connect Straight Section two 240 horizontal down to one 120 vertical

Required two connector 240 and one connector 120 to joint

Cover use 240 cover

Description	Part Number
	240 Series
UCFC Vertical Tee 240 to 120 Series, Yellow	UCFC VT 240 120

### UC Fiber Connect Adaptor Reduce



Adaptor reduce from

- 240 down to 120
- 300 down to 240
- 360 down to 240

Build-in Connector fast and easy installation

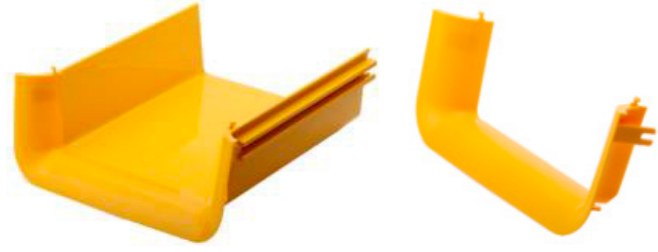
Cover available

Supply with

- 8 Screw and nut for 240 to 120 series
- 9 Screw and nut for 300 and 360 to 240 series

Description	Part Number		
	240 Series	300 Series	360 Series
UCFC Adaptor Reduce, Yellow	UCFC AD 240 120	UCFC AD 300 240	UCFC AD 360 240
UCFC Adaptor Reduce, Cover, Yellow	UCFC AD C 240 120	UCFC AD C 300 240	UCFC AD C 360 240

## UC Fiber Connect Trumpet



Bend radius protects cables against damage when dropping out

Direct connect to straight section

Supply with

- 4 Screw and nut

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Trumpet, Yellow	UCFC TP 120	UCFC TP 240	UCFC TP 300	N/A

## UC Fiber Connect End Cap



Close the end of straight section

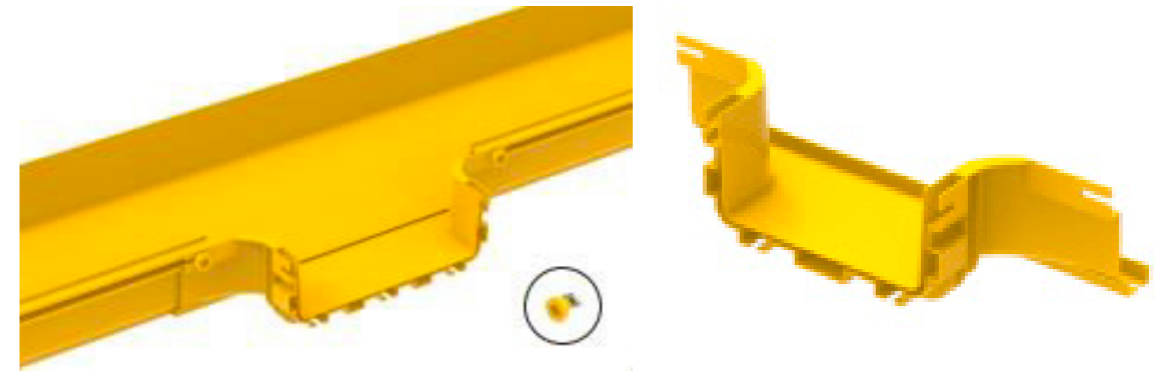
Direct connect to straight section

Supply with

- 4 Screw and nut for 120 and 240 series
- 5 Screw and nut for 300 and 360 series

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC End Cap, Yellow	UCFC EC 120	UCFC EC 240	UCFC EC 300	UCFC EC 360

## UC Fiber Connect Universal Tee



Universal Tee Junction Join

Connect to straight section flexible and fast join with one side cut

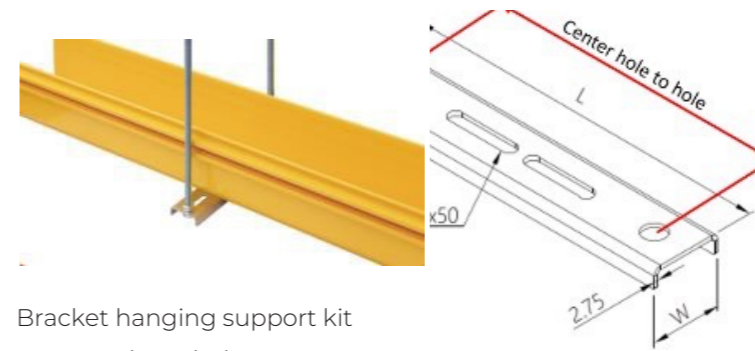
Equipped with Built-in Connector

Supply with

- Universal Tee × 1, M5 Screw and Nut x8 for 120 and 240 series
- Universal Tee × 1, M5 Screw and Nut x10 for 300 and 360 series

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Universal Tee, Yellow	UCFC UT 120	UCFC UT 240	UCFC UT 300	UCFC UT 360

## UC Fiber Connect Bracket Kits



Bracket hanging support kit

Support threaded rot up to 16.2mm

48mm wide

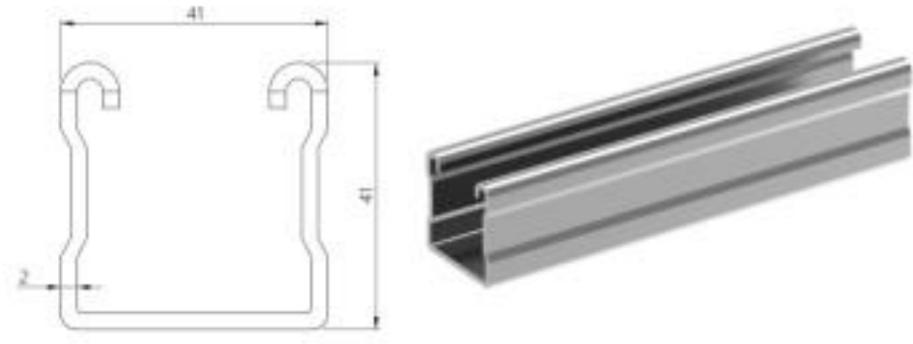
Supply with

- 2 Screw and nut

Description	Part Number			
	120 Series	240 Series	300 Series	360 Series
UCFC Trapeze Bracket Support kits	UCFC TB 120	UCFC TB 240	UCFC TB 300	UCFC TB 360
Support Bracket Length L (mm)	249	365	423	481
Center hole to hole Length (mm)	201	317	375	433



## Strut Channel Bar



Suitable for: Supporting trays and available for ceiling, wall and floor mount.

Compatible with: Wire diameter from 3.5mm to 6.0mm

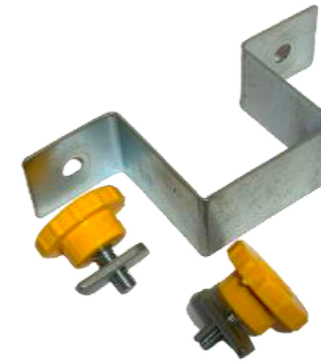
Width x Height 41X41 (mm)

Include: Strut Channel Bar x 1

M10 Threaded rod, Drop-In anchor bolt and flange nut are required for Ceiling mount (not include)

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-UHDC200	UC Wire Mesh Connect Channel Bar 200 mm	200	41	2
UCWC-UHDC250	UC Wire Mesh Connect Channel Bar 250 mm	250	41	2
UCWC-UHDC300	UC Wire Mesh Connect Channel Bar 300 mm	300	41	2
UCWC-UHDC400	UC Wire Mesh Connect Channel Bar 400 mm	400	41	2
UCWC-UHDC500	UC Wire Mesh Connect Channel Bar 500 mm	500	41	2
UCWC-UHDC600	UC Wire Mesh Connect Channel Bar 600 mm	600	41	2
UCWC-UHDC700	UC Wire Mesh Connect Channel Bar 700 mm	700	41	2

## UC Fiber Connect Fixed Clip



Suitable for: Fixed and secure UC Fiber Connect Straight Section to Strut Channel Bar

41X41mm

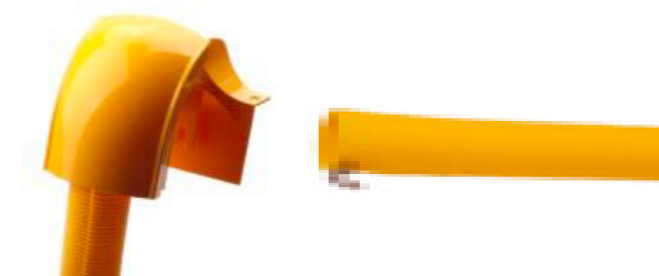
Compatible with: UC Fiber Connect Straight Section

Width x Height 41X41 (mm)

Include: 1x U-Clam Clip 2xScrew and nut

Description	Part Number (All Series)
UC Fiber Connect U-Clamp for Unistrut Channel Bracket 41X41mm, with 2 Screw Set, Black	UCFC SCK41X41

## 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

including cover and flex tube 55mm OD, 80cm length

compatible for

- 2 Screw and nut

Description	Part Number (All Series)
UCFC Drop Exit with Flex Tube, Yellow	UCFC OT 55
Flex tube 55mm OD (optional) 50m per roll with 65 each of Tube fixes	UCFC FT 55

## 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 120 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)

Description	Part Number (All Series)
UCFC Drop exit 120, Without Flex Tube, Yellow	UCFC OT 120
UCFC Drop exit 120, With 2X55mm Flex Tube 100cm length, Yellow	UCFC OT2 120

## UC Fiber Connect Screw and Nut



- M5 Screw and Nut
- Use to fix connector and junction
- 100pcs per bag

Description	Part Number (All Series)
M5 Screw	UCFC AC SW
M5 Screw and Nut Set	UCFC AC SN

# 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 cableraceway 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

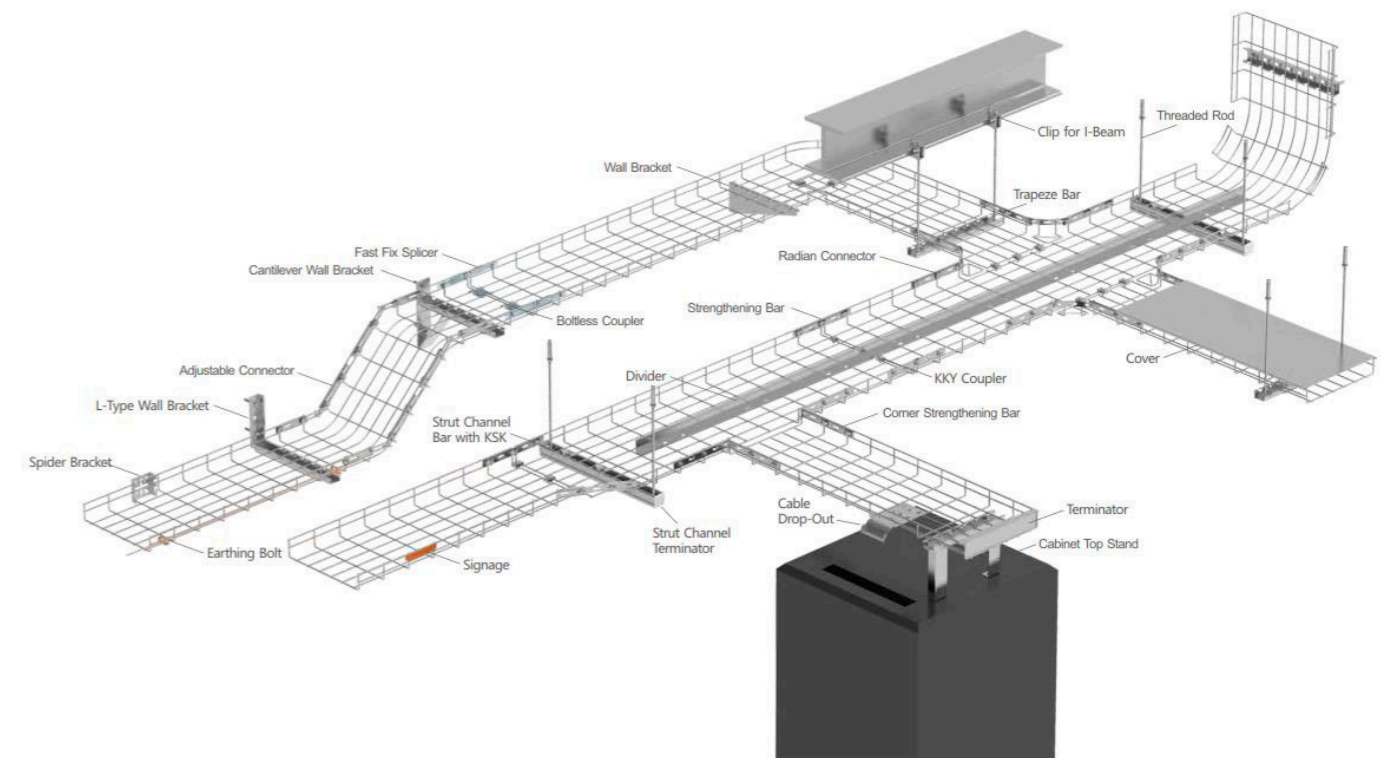
Material: Electro galvanized steel is the process by which a coating of zinc is deposited on the steel by electrolysis to form a tough, adherent, and protective film. This film itself is a barrier coating which slows subsequent corrosive attack on the zinc. This coating is usually only recommended for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

Features:

- 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



Safety: Attention Cable Tray Installers – UC Wire Mesh Connect Cable tray system design shall comply with corresponding national standards. It is recommended that the installation work shall be performed by qualified personnel, preferably a certified electrical contractor, familiar with standard electrical construction practices, electrical equipment, and safety of electrical wiring systems.

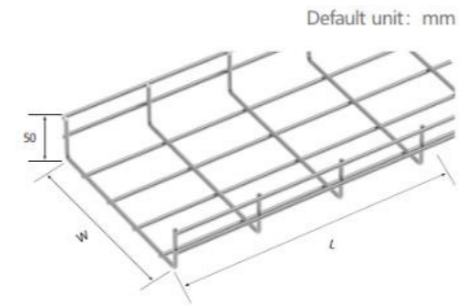
Support Span: The strength of a cable tray system is largely determined by the strength of its side rails. The strength of a cable tray side rail is proportionate to the distance between the supports on which it is installed, commonly referred to as the “support span”. Therefore, the strength of a cable tray system can be altered by changing the support span. However, there is a limit to how much that strength can be increased by reducing the support span. Once the load requirement has been determined, the following factors should be considered:

- (1) Sometimes the location of existing structural beams will dictate the cable tray support span. This is typical with outdoor installations where adding intermediate supports could be financially prohibitive. For this situation the appropriate cable tray must be selected to accommodate the existing span.
- (2) When cable tray supports are randomly located, the added cost of a higher strength cable tray system should be compared to the cost of additional supports.
- (3) The support span lengths should be equal to or less than un-spliced straight section lengths, to ensure that no more than one splice is placed between supports

Wire Mesh Diameter 5.0 mm		Safety Support Load (Kg/m) ,SSL			
		Span (m)			
Height (mm)	Width (mm)	1 (m)	1.5 (m)	2 (m)	3 (m)
50	50	91	70	47	23
	100	99	76	51	25
	150	103	79	53	26
	200	103	79	53	26
	300	111	85	57	28
100	100	143	110	73	37
	200	159	122	81	41
	300	183	141	94	47
	400	212	163	109	54
	500	225	180	120	60
	600	246	189	126	63
150	150	250	192	126	64
	200	257	198	132	66
	300	273	240	140	70
	400	285	219	146	73
	500	302	232	155	77
	600	319	245	163	82

Remark: The actual maximum load is twice times of SSL data.

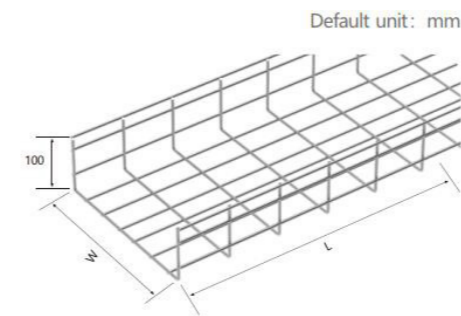
## UC Wire Mesh Connect Straight Section 50 Series



Material: Electro galvanized steel  
Wire common diameter 5.0mm  
Length 3m

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-CM50X50-EG	UC Wire Mesh Connect Straight Section 50X50	50	50	3.15
UCWC-CM50X100-EG	UC Wire Mesh Connect Straight Section 50X100	50	100	3.84
UCWC-CM50X150-EG	UC Wire Mesh Connect Straight Section 50X150	50	150	4.56
UCWC-CM50X200-EG	UC Wire Mesh Connect Straight Section 50X200	50	200	5.25
UCWC-CM50X300-EG	UC Wire Mesh Connect Straight Section 50X300	50	300	6.66
UCWC-CM50X400-EG	UC Wire Mesh Connect Straight Section 50X300	50	400	8.07
UCWC-CM50X500-EG	UC Wire Mesh Connect Straight Section 50X300	50	500	9.48
UCWC-CM50X600-EG	UC Wire Mesh Connect Straight Section 50X600	50	600	10.89

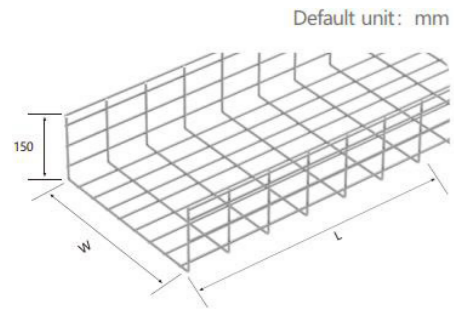
## UC Wire Mesh Connect Straight Section 100 Series



Material: Electro galvanized steel  
Wire common diameter 5.0mm  
Length 3m

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-CM100X100-EG	UC Wire Mesh Connect Straight Section 100X100	100	100	5.25
UCWC-CM100X150-EG	UC Wire Mesh Connect Straight Section 100X150	100	150	5.94
UCWC-CM100X200-EG	UC Wire Mesh Connect Straight Section 100X200	100	200	6.66
UCWC-CM100X300-EG	UC Wire Mesh Connect Straight Section 100X300	100	300	8.07
UCWC-CM100X400-EG	UC Wire Mesh Connect Straight Section 100X400	100	400	9.48
UCWC-CM100X500-EG	UC Wire Mesh Connect Straight Section 100X500	100	500	10.89
UCWC-CM100X600-EG	UC Wire Mesh Connect Straight Section 100X600	100	600	12.3

## UC Wire Mesh Connect Straight Section 150 Series

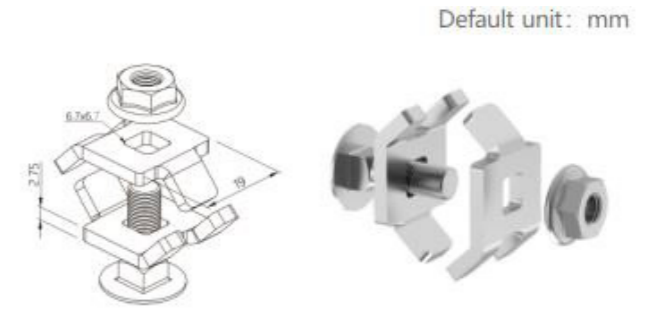


Material: Electrogalvanized steel  
Wire common diameter 5.0mm  
Length 3m

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-CM150X150-EG	UC Wire Mesh Connect Straight Section 150X150	150	150	7.35
UCWC-CM150X200-EG	UC Wire Mesh Connect Straight Section 150X200	150	200	8.07
UCWC-CM150X300-EG	UC Wire Mesh Connect Straight Section 150X300	150	300	9.48
UCWC-CM150X400-EG	UC Wire Mesh Connect Straight Section 150X400	150	400	10.89
UCWC-CM150X500-EG	UC Wire Mesh Connect Straight Section 150X500	150	500	12.3
UCWC-CM150X600-EG	UC Wire Mesh Connect Straight Section 150X600	150	600	13.71

## UC Wire Mesh Connect Accessorys

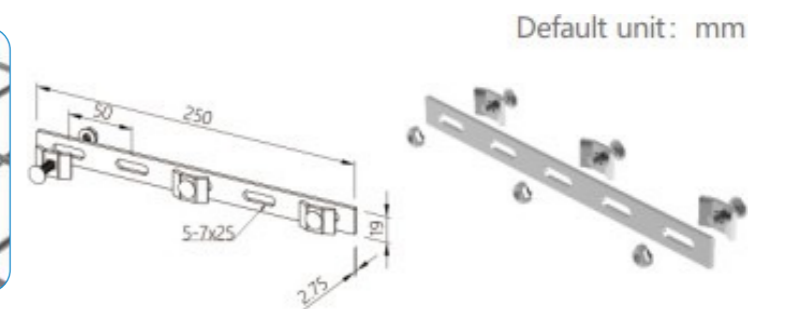
### Coupler



Suitable for: Connect of wire mesh cable tray  
Compatible with: Wire diameter from 3.5mm to 6.0mm  
Include: Coupler x 1, M6 bolt x 1, M6 nut x 1

Part Number	Description	Product Detail		
		Height (mm)	Width (mm)	Packing
UCWC-COKKY	UC Wire Mesh Connect Coupler	19	2.75	20

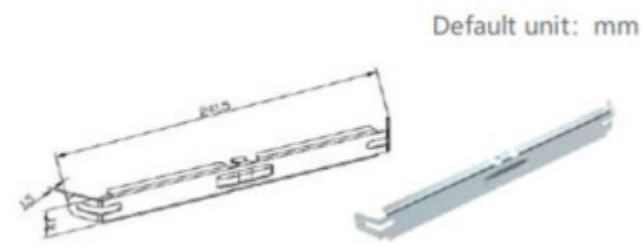
### Strengthening Bar



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

Part Number	Description	Product Detail		
		Height (mm)	Width (mm)	Packing
UCWC-SRB	UC Wire Mesh Connect Strengthening Bar	19	250	100

## Boltless Side Coupler



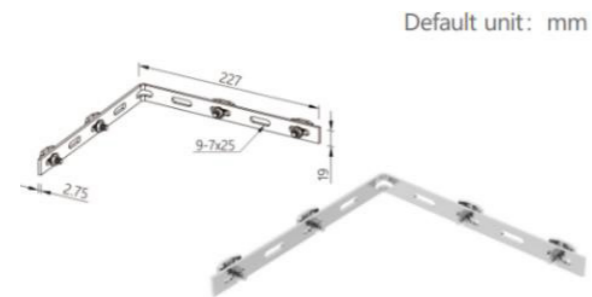
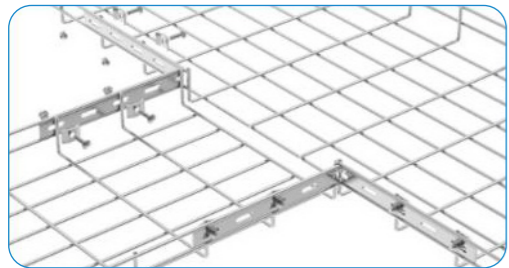
Suitable for: Connect of wire mesh cable tray Boltless.

Compatible with: Wire diameter from 3.5mm to 6mm

Include: Boltless Side Coupler x 1

Part Number	Description	Product Detail		
		Height (mm)	Width (mm)	Packing
UCWC-BLC	TUC Wire Mesh Boltless Side Coupler Connector	19	255	20

## Corner Strengthening Bar



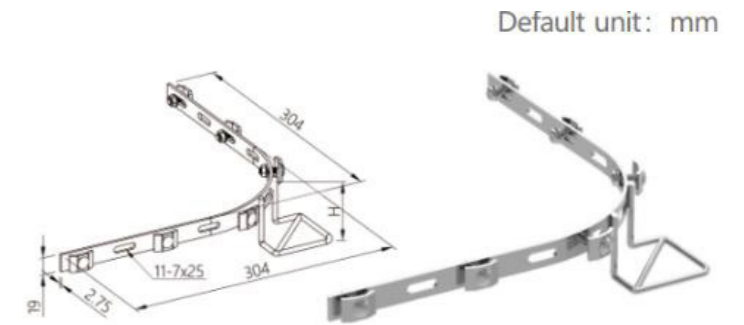
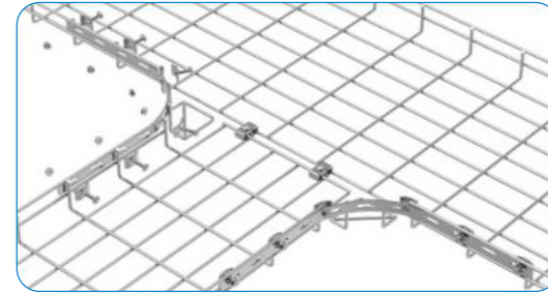
Suitable for: Connect of Elbow, Tee, Cross

Compatible with: Wire diameter from 3.5mm to 6.0mm

Include: Bar x 1, KK34-top x 4, M6 bolt x 4, M6 nut x 4

Part Number	Description	Product Detail		
		Height (mm)	Width (mm)	Packing
UCWC-CSB	UC Wire Mesh Connect Corner Strengthening Bar	19	227	100

## Radian Connector



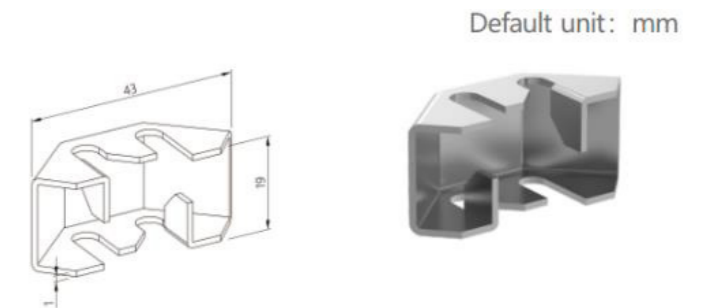
Suitable for: Connect of Elbow, Tee, Cross

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

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-RC90-50	UC Wire Mesh Connect Radian Connector 50 Series	50	304	50
UCWC-RC90-100	UC Wire Mesh Connect Radian Connector 100 Series	100	304	30
UCWC-RC90-150	UC Wire Mesh Connect Radian Connector 150 Series	150	304	30

## Fast Lock



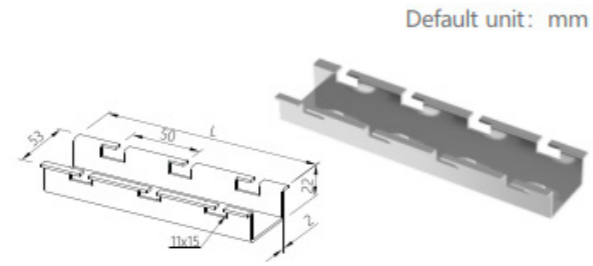
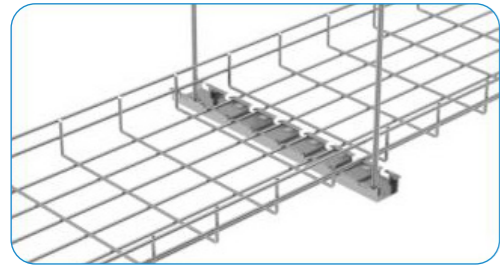
Suitable for: Make bends

Compatible with: Wire diameter from 4.0mm to 6.0mm

Include: Fast Lock x 1

Part Number	Description	Product Detail		
		Height (mm)	Width (mm)	Packing
UCWC-FLK	UC Wire Mesh Connect Fast Lock	19	43	500

## Trapeze Bar



Suitable for: Support Bracket for wire mesh

Compatible with: Wire diameter from 3.5mm to 5.5mm

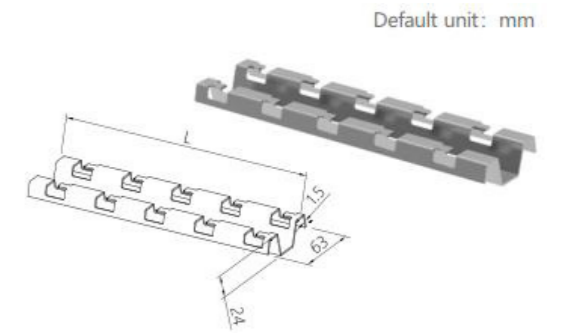
Width x Height 53X22 (mm)

Include: Trapeze Bar x1

M10 Threaded rod, Drop In anchor bolt and flange nut are required for Ceiling mount (not include)

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-BR200	UC Wire Mesh Connect Trapeze Bar 200 mm	200	53	50
UCWC-BR250	UC Wire Mesh Connect Trapeze Bar 250 mm	250	53	50
UCWC-BR300	UC Wire Mesh Connect Trapeze Bar 300 mm	300	53	30
UCWC-BR400	UC Wire Mesh Connect Trapeze Bar 400 mm	400	53	30
UCWC-BR500	UC Wire Mesh Connect Trapeze Bar 500 mm	500	53	30
UCWC-BR600	UC Wire Mesh Connect Trapeze Bar 600 mm	600	53	20
UCWC-BR700	UC Wire Mesh Connect Trapeze Bar 700 mm	700	53	20

## M Shaped Bar



Suitable for: Support Bracket for wire mesh

Compatible with: Wire diameter from 3.5mm to 6.0mm

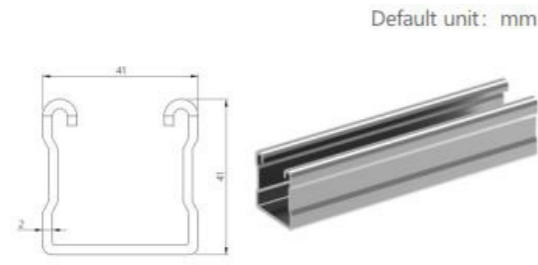
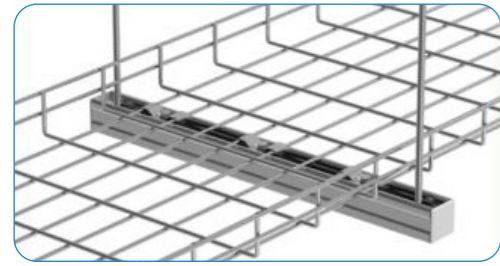
Width x Height 63X24 (mm)

Include: M Shape Bar x1

M8 Threaded rod, Drop In anchor bolt and flange nut are required for Ceiling mount (not include)

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-MBR200	UC Wire Mesh Connect M Shape Bar 200 mm	200	63	50
UCWC-MBR250	UC Wire Mesh Connect M Shape Bar 250 mm	250	63	50
UCWC-MBR300	UC Wire Mesh Connect M Shape Bar 300 mm	300	63	50
UCWC-MBR400	UC Wire Mesh Connect M Shape Bar 400 mm	400	63	50
UCWC-MBR500	UC Wire Mesh Connect M Shape Bar 500 mm	500	63	40
UCWC-MBR600	UC Wire Mesh Connect M Shape Bar 600 mm	600	63	40
UCWC-MBR700	UC Wire Mesh Connect M Shape Bar 700 mm	700	63	40

## Strut Channel Bar



Suitable for: Supporting trays and available for ceiling, wall and floor mount.

Compatible with: Wire diameter from 3.5mm to 6.0mm

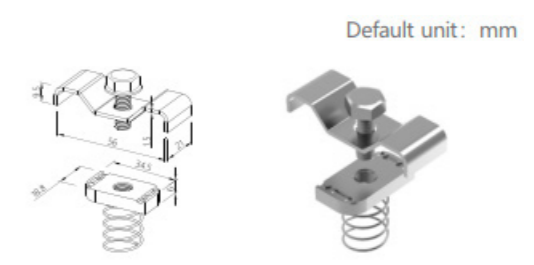
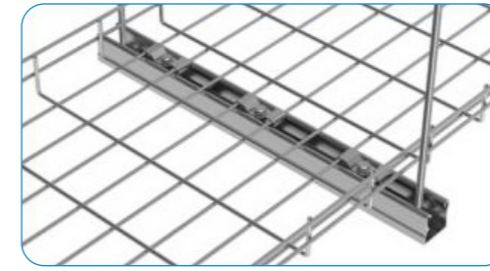
Width x Height 41X41 (mm)

Include: Strut Channel Bar x1

M10 Threaded rod, Drop In anchor bolt and flange nut are required for Ceiling mount (not include)

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-UHDC200	UC Wire Mesh Connect Channel Bar 200 mm	200	41	2
UCWC-UHDC250	UC Wire Mesh Connect Channel Bar 250 mm	250	41	2
UCWC-UHDC300	UC Wire Mesh Connect Channel Bar 300 mm	300	41	2
UCWC-UHDC400	UC Wire Mesh Connect Channel Bar 400 mm	400	41	2
UCWC-UHDC500	UC Wire Mesh Connect Channel Bar 500 mm	500	41	2
UCWC-UHDC600	UC Wire Mesh Connect Channel Bar 600 mm	600	41	2
UCWC-UHDC700	UC Wire Mesh Connect Channel Bar 700 mm	700	41	2

## Hold Down Clip Set



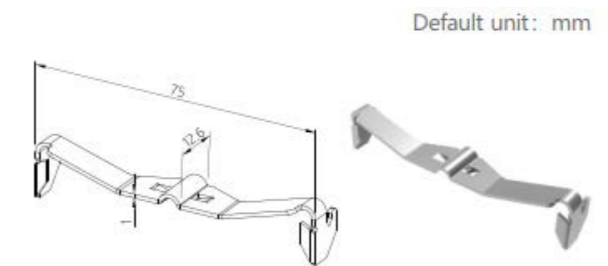
Suitable for: Fast fix trays on strut channel bar

Compatible with: Wire diameter from 3.5mm to 6.0mm

Include: Clip x 1, M6 Spring nut x 1, M6 bolt x 1

Part Number	Description	Product Detail		
		Height (mm)	Width (mm)	Packing
UCWC-HDC	UC Wire Mesh Connect Hold Down Clip Set	1.5	59	500

## Fast Channel Clip



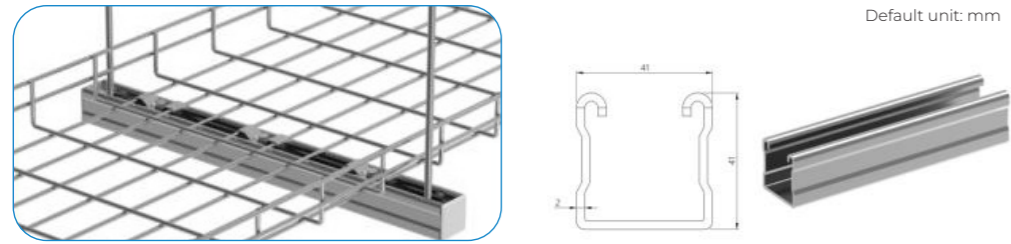
Suitable for: Fast fix trays on strut channel bar

Compatible with: Wire diameter from 3.5mm to 6.0mm

Include: Clip x 1

Part Number	Description	Product Detail		
		Height (mm)	Width (mm)	Packing
UCWC-KSK	UC Wire Mesh Connect Fast Channel Clip	75	12.6	500

## Strut Channel Bar with Fast Channel Clip



Default unit: mm

Suitable for: Supporting trays and available for ceiling, wall and floor mount.

Compatible with: Wire diameter from 3.5mm to 6.0mm

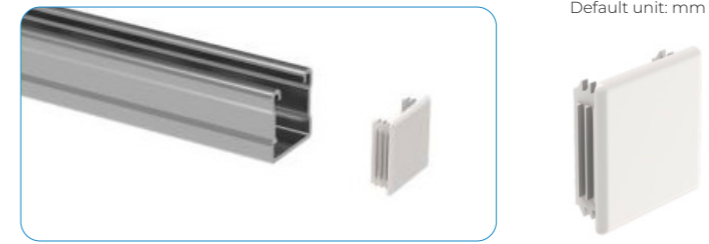
Width x Height 41X41 (mm)

Include: Strut Channel Bar x1, Fast Channel clip x1 or x2

M10 Threaded rod, Drop-in anchor bolt and flange nut are required for Ceiling mount (not include)

Part Number	Description	Product Detail		
		Length (mm)	Width (mm)	Packing
UCWC-UHDCKSK200	UC Wire Mesh Connect Channel Bar 200 mm with one piece of fast channel clip	200	41	2
UCWC-UHDCKSK250	UC Wire Mesh Connect Channel Bar 250 mm with one piece of fast channel clip	250	41	2
UCWC-UHDCKSK300	UC Wire Mesh Connect Channel Bar 300 mm with one piece of fast channel clip	300	41	2
UCWC-UHDCKSK400	UC Wire Mesh Connect Channel Bar 400 mm with one piece of fast channel clip	400	41	2
UCWC-UHDCKSK500	UC Wire Mesh Connect Channel Bar 500 mm with two piece of fast channel clip	500	41	2
UCWC-UHDCKSK600	UC Wire Mesh Connect Channel Bar 600 mm with two piece of fast channel clip	600	41	2
UCWC-UHDCKSK700	UC Wire Mesh Connect Channel Bar 700 mm with two piece of fast channel clip	700	41	2

## Strut Channel End Cap



Default unit: mm

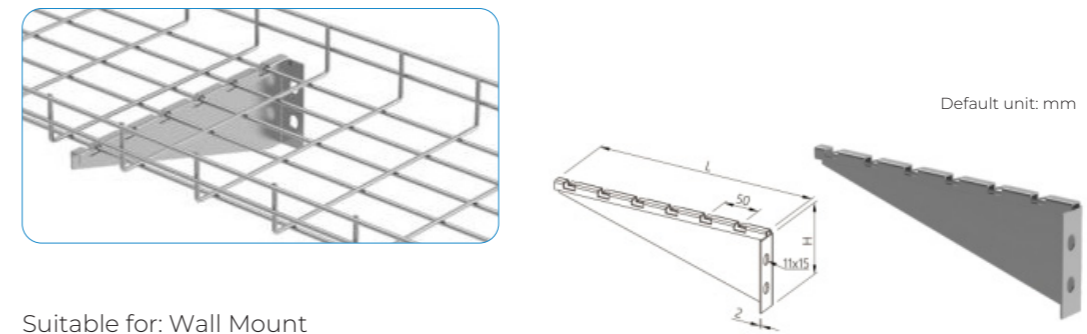
Suitable for: Strut channel bar

Compatible with: 41X41 mm

Include: Clip x 1

Part Number	Description	Product Detail		
		Thick (mm)	Width (mm)	Packing
UCWC-CCT	UC Wire Mesh Connect Strut Channel End Cap	41	41	

## Wall Bracket



Default unit: mm

Suitable for: Wall Mount

Compatible with: Wire diameter from 3.5mm to 6.0mm

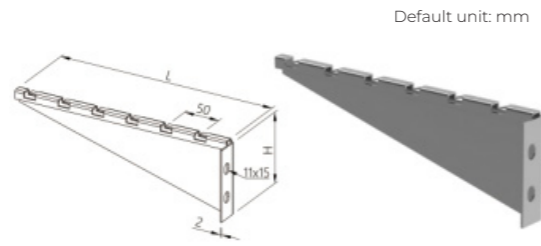
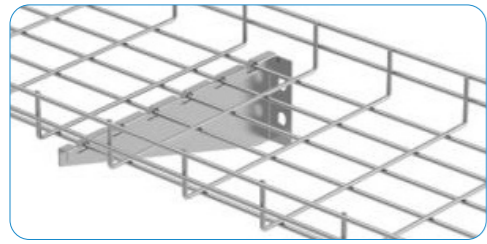
width from 100mm to 600mm

Include: Wall Bracket x 1

Part Number	Description	Product Detail		
		Height (mm)	Length (mm)	Packing
UCWC-WBK-120	UC Wire Mesh Connect Wall Bracket 120	100	120	50
UCWC-WBK-170	UC Wire Mesh Connect Wall Bracket 170	100	170	50
UCWC-WBK-220	UC Wire Mesh Connect Wall Bracket 220	100	220	30
UCWC-WBK-320	UC Wire Mesh Connect Wall Bracket 320	100	320	30



## Strut Channel Wall Bracket



Suitable for: Wall Mount

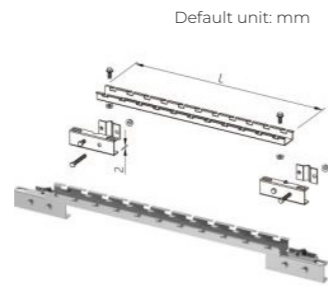
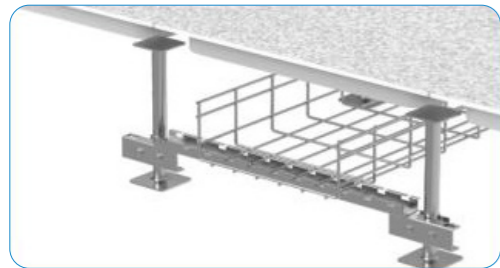
Compatible with: Wire diameter from 3.5mm to 6.0mm

width from 50mm to 200mm

Include: Wall Bracket x 1

Part Number	Description	Product Detail		
		Height (mm)	Length (mm)	Packing
UCWC-TWH-120	UC Wire Mesh Connect Strut Channel Wall Bracket 120	139	120	50
UCWC-TWH-170	UC Wire Mesh Connect Strut Channel Wall Bracket 170	139	170	50
UCWC-TWH-220	UC Wire Mesh Connect Strut Channel Wall Bracket 220	139	220	30
UCWC-TWH-320	UC Wire Mesh Connect Strut Channel Wall Bracket 320	139	320	30

## Under Floor Bracket



Suitable for: Floor Mount

Compatible with: Wire diameter from 3.5mm to 6.0mm,

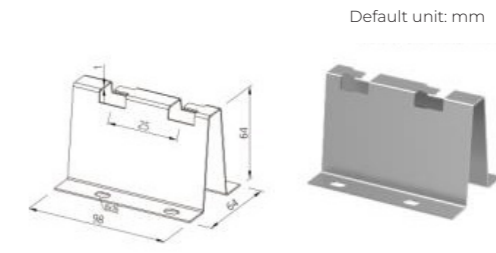
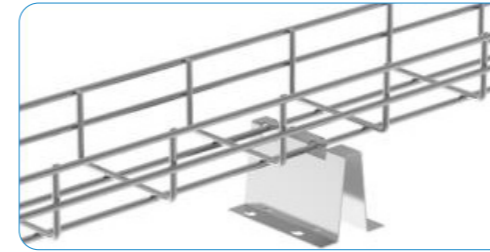
tray width from 100mm to 150mm

Include: V-shape clip x 2, Trapeze bar x 1, Foot support x 2, Bolt and Nut

Fixing onto the feet of raised floor makes the height adjustable

Part Number	Description	Product Detail			
		Height (mm)	Width (mm)	Length (mm)	Packing
UCWC-UFB	UC Wire Mesh Connect Under Floor Bracket				14

## 100 Floor Stands



Suitable for: Floor Mount or Top mount on cabinets

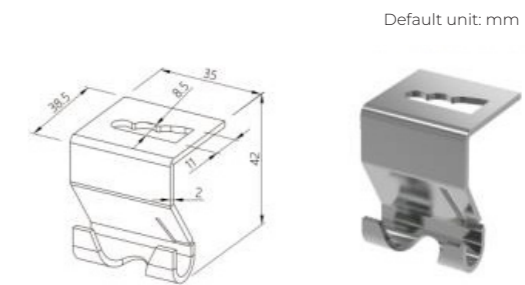
Compatible with: Wire diameter from 3.5mm to 6.0mm,

tray width from 100mm

Include: Bracket x1

Part Number	Description	Product Detail			
		Height (mm)	Width (mm)	Length (mm)	Packing
UCWC-100FSD	UC Wire Mesh Connect 100 Floor Stand	64	64	98	100

## Hanging Hook



Suitable for: Support Bracket for wire mesh hanging ceiling

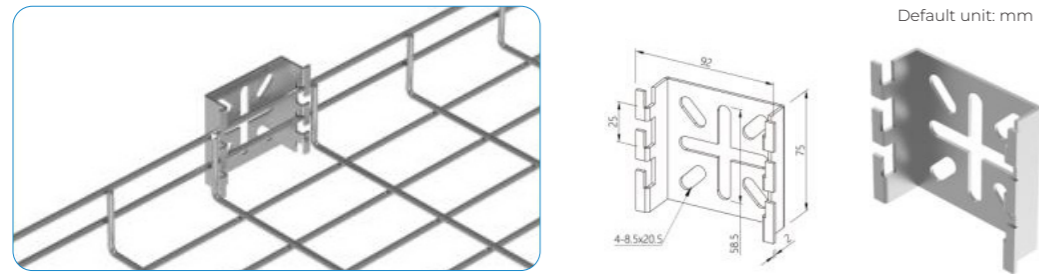
Compatible with: Wire diameter from 3.5mm to 6.0mm, tray width  $\leq$ 200mm

Include: Hanging Hook x 1, Thickness 2mm

M8 threaded rod, drop in anchor bolt and flange nut are required for ceiling mount.

Part Number	Description	Product Detail			
		Height (mm)	Width (mm)	Length (mm)	Packing
UCWC-HKS	UC Wire Mesh Connect Hanging Hook	42	38.5	35	500

## Spider Bracket



Suitable for: Wire mesh cable tray

Compatible with: Wire diameter from 3.5mm to 6.0mm, tray width from 50mm to 200mm

Include: Spider Bracket x1, Thickness 2mm

Part Number	Description	Product Detail		
		Height (mm)	Length (mm)	Packing
UCWC-SPB	UC Wire Mesh Connect Spider Bracket	75	92	100

## Threaded Rog



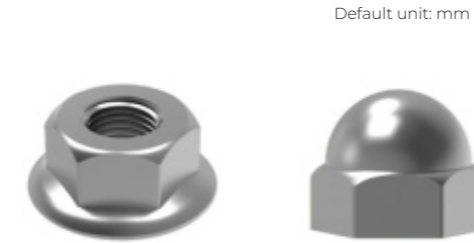
Suitable for: Support Bracket Ceiling mounting

Compatible with: TRAPEZE BAR, M Shape, STRUT Channel

Include: Threaded Rod x 1 (not included nuts)

Part Number	Description	Product Detail		
		Diameter (mm)	Length (cm)	Packing
UCWC-ROD-M8-1	UC Wire Mesh Connect Thread Rod M8, 1m	8	100	
UCWC-ROD-M8-3	UC Wire Mesh Connect Thread Rod M8, 3m	8	300	
UCWC-ROD-M10-1	UC Wire Mesh Connect Thread Rod M10, 1m	10	100	
UCWC-ROD-M10-3	UC Wire Mesh Connect Thread Rod M10, 3m	10	300	
UCWC-ROD-M12-1	UC Wire Mesh Connect Thread Rod M12, 1m	12	100	
UCWC-ROD-M12-3	UC Wire Mesh Connect Thread Rod M12, 3m	12	300	
UCWC-ROD-M14-1	UC Wire Mesh Connect Thread Rod M14, 1m	14	100	
UCWC-ROD-M14-3	UC Wire Mesh Connect Thread Rod M14, 3m	14	300	

## Flange Nut



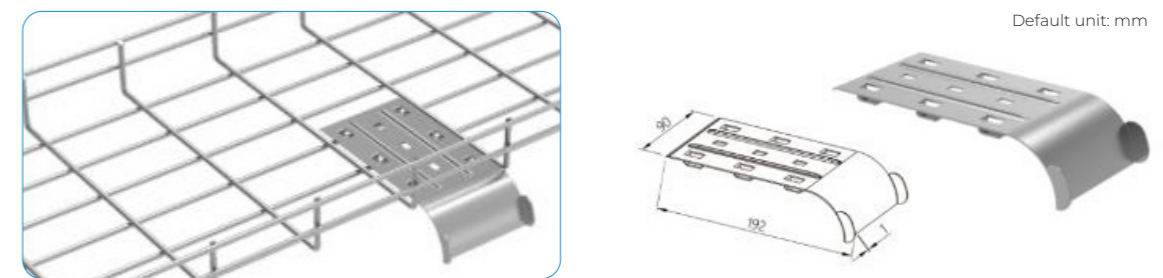
Suitable for: Flange nut is for threaded rod fix

Dome nut is for threaded rod end decoration

Include: Nut x 1

Part Number	Description	Product Detail		
		Diameter (mm)	Length (cm)	Packing
UCWC-FNUT-M8	UC Wire Mesh Connect Flange Nut M8	8		
UCWC-FNUT-M10	UC Wire Mesh Connect Flange Nut M10	10		
UCWC-FNUT-M12	UC Wire Mesh Connect Flange Nut M12	12		
UCWC-FNUT-M14	UC Wire Mesh Connect Flange Nut M14	14		
UCWC-DNUT-M8	UC Wire Mesh Connect Dome Nut M8	8		
UCWC-DNUT-M10	UC Wire Mesh Connect Dome Nut M10	10		
UCWC-DNUT-M12	UC Wire Mesh Connect Dome Nut M12	12		
UCWC-DNUT-M14	UC Wire Mesh Connect Dome Nut M14	14		

## Cable Drop-Out



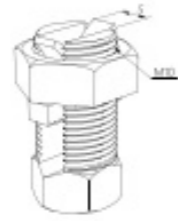
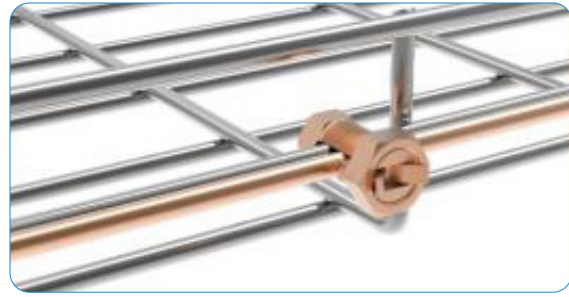
Suitable for: Cable dropping out

Fit for Wire diameter from 3.5mm to 6.0mm wire mesh tray width over 150mm

Include: Cable Drop Out x 1

Part Number	Description	Product Detail		
		Width (mm)	Depth (mm)	Packing
UCWC-CGD	UC Wire Mesh Cable Drop-Out	90	192	

## Earthing Bolt



Default unit: mm



Suitable for: Grounding Connection

Fit for Ground wire diameter 5.0 to 7.0mm

Include: Earthing Bolt x1

Part Number	Description	Product Detail		
		Height (mm)	Diameter	Packing
UCWC-EHB-M12	UC Wire Mesh EARTHING BOLT M12	26	M12	
UCWC-EHB-M14	UC Wire Mesh EARTHING BOLT M14	27	M14	

## Drop-In Anchor Bolt



Suitable for: Fixed thread rot to the ceiling

Include: Drop-in Anchor Bolt x1

Part Number	Description	Product Detail		
		Length (mm)	Diameter	Packing
UCWC-PANR-M8	UC Wire Mesh Drop in Anchor Bolt, M8X50mm	50	M8	
UCWC-PANR-M10	UC Wire Mesh Drop in Anchor Bolt, M10X60mm	60	M10	
UCWC-PANR-M12	UC Wire Mesh Drop in Anchor Bolt, M12X70mm	70	M12	

## Network Rack



### Features

- The Data Center Network Rack is designed to meet ANSI/EIA-310-E (Update Revision of EIA-310-C&D), DIN 41491: Part 1, DIN41494: Part 7, IEC 297-2, GB/T3047.2.92 Standard, compatible with ETSI standard. ISO 9001 and ISO 14001 compliant.
- Modular Knock Down design, high strength and durable, easy to assembly and transportation.
- Material High Grade SPCC Steel finish Electrostatic Powder Paint, RAL9005(Black) Color.
- Component thickness, Mounting rail: 2mm, Horizontal Beam: 1.2mm, Front and Rear Door: 1.2mm, Side Panel: 1.0mm, 800 wide dedicated connection part: 1.5mm.
- Casters, 4pcs heavy duty 2 Inch castors with 2 brake
- Loading capacity up to 800kg and 4pcs levelling feet
- Mounting pole 4pcs mounting profiles
- Front door verity option flat perforated (honey-combed door), split double, or curve perforate, great airflow up to 78%, 1.2mm thickness, fast reduce heat inside cabinet, swing handle lock or 3-digit code lock as an option to request for more security, electronic swing handle option available upon request.
- Rear Door, standard split type double door flat perforated (honey-combed door) great airflow fast reduce heat inside cabinet.
- Double side door save space when open, swing handle lock or 3-digit code lock as an option to request for more security, electronic swing handle option upon request.
- Side panel 32U and above with 4pcs removable side panels, down to 32U with 2pcs side panels.
- Roof cover, best design for cable management with large cable access slots and cable management rail, Support verity of fan set, up to 6 -fans set to help to remove heat and improve airflow.
- Bottom panel for cable entrance from the bottom.
- Vertical cable management with cover included for front left and right for 800mm wide only.
- Rear cable management rail is optional for mounting Quick Snap PDU.
- Case Nut 50 set with Screw provided.

## Network Rack Ordering

Rack Type	Rack Wide	Rack Depth	Front Door	Rear Door	Color		RU	Key Lock	Packaging
XX	X	XX	X	X	XX	-	XX	X	X
NR = Network Rack	6 = 600	60 = 600	A = Single Acrylic Door		BK = Black		22 = 22RU	S = Swing Handle	0 = Flat Pack
	8 = 800	80 = 800	B = Split Double Acrylic Door		GY = Light Grey		27 = 27RU	C = Swing Handle with 3 Digit Code Lock	1 = Full Assembly
		10 = 1000	C = Single Curve Perforate Door		WH = White		32 = 32RU		
		11 = 1100	D = Single Solid Door				37 = 37RU		
		12 = 1200	E = Split Double Solid Door				42 = 42RU		
			F = Single Flat Perforated Door				45 = 45RU		
			G = Split Double Flat Perforate Door						

## Network Rack Ordering (example)

Part Number	Description
NR610FGBK-42S1	Network Rack 600X1000, 42RU, flat perforated front door, split double flat perforated rear door, Swing Handle Lock, Black, Full Assembly
NR611GGBK-42S0	Network Rack 600X1100, 42RU, split double flat perforated front door, split double flat perforated rear door, Swing Handle Lock, Black, Flat Pack
NR810CGBK-42S1	Network Rack 800X1000, 42RU, curve perforated front door, split double flat perforated rear door, Swing Handle Lock, Black, Full Assembly

## Server Rack



### Features

- Data Center Network Rack design to meet ANSI/EIA-310-E (Update Revision of EIA-310-C&D), DIN 41491: Part 1, DIN41494: Part 7, IEC 297-2, GB/T3047.2.92 Standard, compatible with ETSI standard. ISO 9001 and ISO 14001 compliant.
- Modular Knock Down design, high strength and durable, easy to assembly and transportation.
- Material High Grade SPCC Steel finish Electrostatic Powder Paint, RAL9005(Black) Color.
- Component thickness, Mounting rail: 2mm, Horizontal Beam: 1.2mm, Front and Rear Door: 1.2mm, Side Panel: 1.0mm, 800 wide dedicated connection part: 1.5mm.
- Casters, 4pcs heavy duty 2 Inch castors with 2 brake.
- Loading capacity up to 1500kg and 4pcs levelling feet.
- Mounting pole 4pcs mounting profiles and 2pcs vertical cable management rails on rear side to support quick snap PDU.
- Front door verity option flat perforated (honey-combed door), split double, or curve perforate, great airflow up to 78%, 1.2mm thickness, fast reduce heat inside cabinet, swing handle lock or 3-digit code lock as an option to request for more security, electronic swing handle option available upon request.
- Rear Door, standard split type double door flat perforated (honey-combed door) great airflow fast reduce heat inside cabinet. Double side door save space when open, swing handle lock or 3-digit code lock as an option to request for more security, electronic swing handle option upon request.
- Side panel 32U and above with 4pcs removable side panels, down to 32U with 2pcs side panels.
- Roof cover, best design for cable management with large cable access slots and cable management rail, Support verity of fan set, up to 6 -fans set to help to remove heat and improve airflow.
- Bottom panel is optional.
- Vertical cable management with cover is not include it is option for 800mm wide only sale separately.
- Case Nut 50 set with Screw provided.

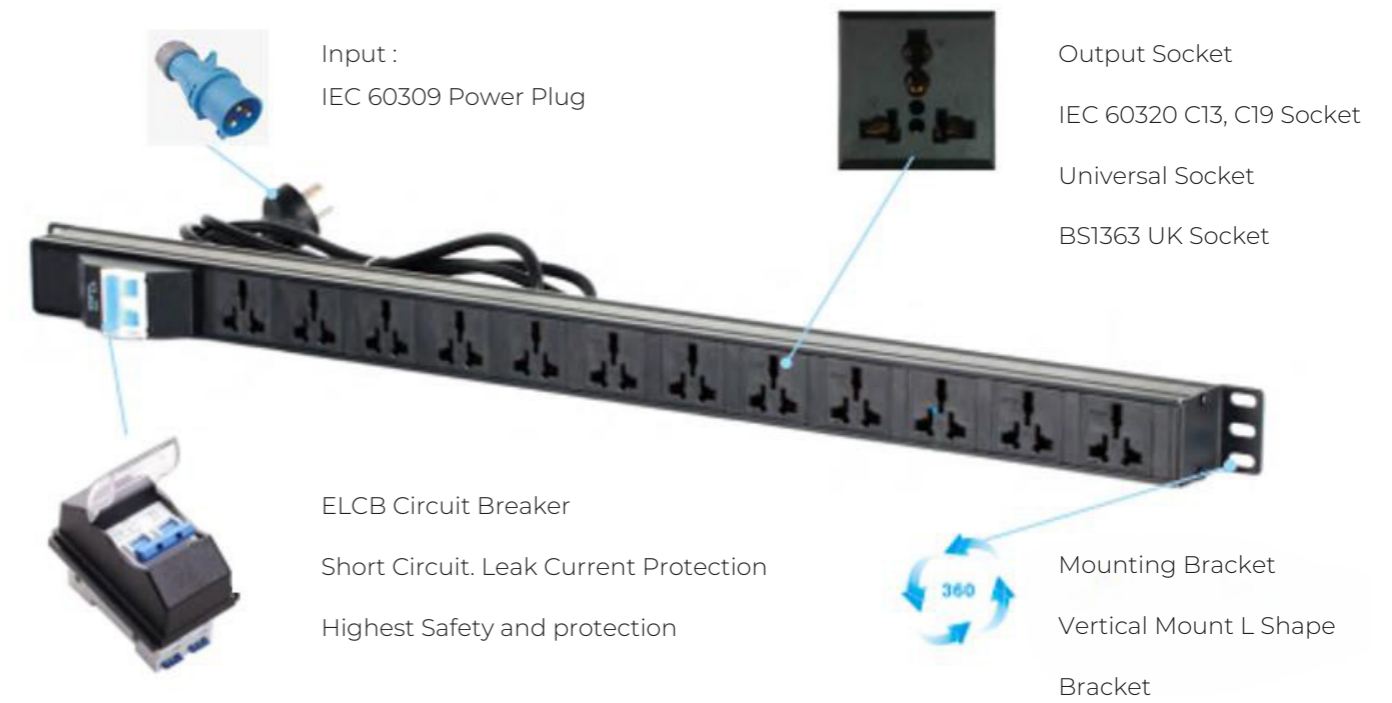
## Server Rack Ordering

Rack Type	Rack Wide	Rack Depth	Front Door	Rear Door	Color		RU	Key Lock	Packaging
XX	X	XX	X	X	XX	-	XX	X	X
SR = Server Rack	6 = 600	60 = 600	A = Single Acrylic Door		BK = Black		22 = 22RU	S = Swing Handle	0 = Flat Pack
		80 = 800	B = Split Double Acrylic Door		GY = Light Grey		27 = 27RU	C = Swing Handle with 3 Digit Code Lock	1 = Full Assembly
	10 = 1000		C = Single Curve Perforate Door				32 = 32RU		
		11 = 1100	D = Single Solid Door				37 = 37RU		
		12 = 1200	E = Split Double Solid Door				42 = 42RU		
			F = Single Flat Perforated Door				45 = 45RU		
		G = Split Double Flat Perforate Door							

## Server Rack Ordering (example)

Part Number	Description
SR610FGBK-42S1	Server Rack 600X1000, 42RU, flat perforated front door, split double flat perforated rear door, Swing Handle Lock, Black, Full Assembly
SR611GGBK-42S0	Server Rack 600X1100, 42RU, split double flat perforated front door, split double flat perforated rear door, Swing Handle Lock, Black, Flat Pack
SR810CGBK-42S1	Server Rack 800X1000, 42RU, curve perforated front door, split double flat perforated rear door, Swing Handle Lock, Black, Full Assembly

## Power Distribution Unit



## Features

Housing	: Aluminum, black color (RAL9005)
Rated current/Voltage	: 16A/250v Max power: 4kW : 32A/250V Max power: 7KW
Input Plug, cable	: IEC 60309 Power Plug, 16A/32A, 3m power cord
Mounting	: Vertical Mounting supply with mounting bracket
Outlet	: BS1363 (UK Socket) 16A : IEC 60320 C13, C19 : Universal Socket
Control Module	: 1XELCB 16A/32A overload, ground leak protection
Operating temperature	: 0°C to 55°C
Storage Temperature	: -25°C to 85°C
Approval	: CE, RoHS Compliant

## Standard Power Distribution Unit

Description	No. of Socket	Socket Type	Part Number	
			16A	32A
PDU 16 Socket, Universal, Power Plug Input, 3m cord	16	Universal	PD16XUN-V-309-M16A	PD16XUN-V-309-M32A
PDU 24 Socket, Universal, Power Plug Input, 3m cord	24	Universal	PD24XUN-V-309-M16A	PD24XUN-V-309-M32A
PDU 16 Socket, IEC 60320-C13, Power Plug Input, 3m cord	16	C13	PD16XC13-V-309-M16A	PD16XC13-V-309-M32A
PDU 24 Socket, IEC 60320-C13, Power Plug Input, 3m cord	24	C13	PD24XC13-V-309-M16A	PD24XC13-V-309-M32A
PDU 16 Socket, BS1363 UK, Power Plug Input, 3m cord	16	UK	PD16XBS-V-309-M16A	PD16XBS-V-309-M32A
PDU 24 Socket, BS1363 UK, Power Plug Input, 3m cord	24	UK	PD24XBS-V-309-M16A	PD24XBS-V-309-M32A



# Draka UC™ 25/28 Years System Warranty Program

Draka UC™ 25/28 Years System Warranty Program Prysmian's Digital Solutions ASEAN is pleased to offer Draka UC™ 25 Years System Warranty to its esteem Certified System Installers and, 28 Years System Warranty to its Certified Professional System Installers.

## Getting the Certified System Installer status

Any installer seeking to install the UC Structured Cabling System offered by the Company and to apply for the Draka UC™ System Warranty shall first complete a curriculum of Certified System Installer training.

Singapore Cables Manufacturers Pte. Ltd. is the regional headquarters of Prysmian group of entities in Oceania and South-East Asia, which is the world leader in the manufacture and distribution of industrial and telecommunication cables with its head office in Milan, Italy.

For more information contact your local Prysmian Digital Solutions sales representative or authorized distributor or email to [mms.asia@prysmian.com](mailto:mms.asia@prysmian.com).

# TRANSFORMING YOUR NETWORK WITH OUR INNOVATIVE COMMUNICATION SOLUTIONS AND DEDICATED SUPPORT

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