



DATACENTER SOLUTIONS

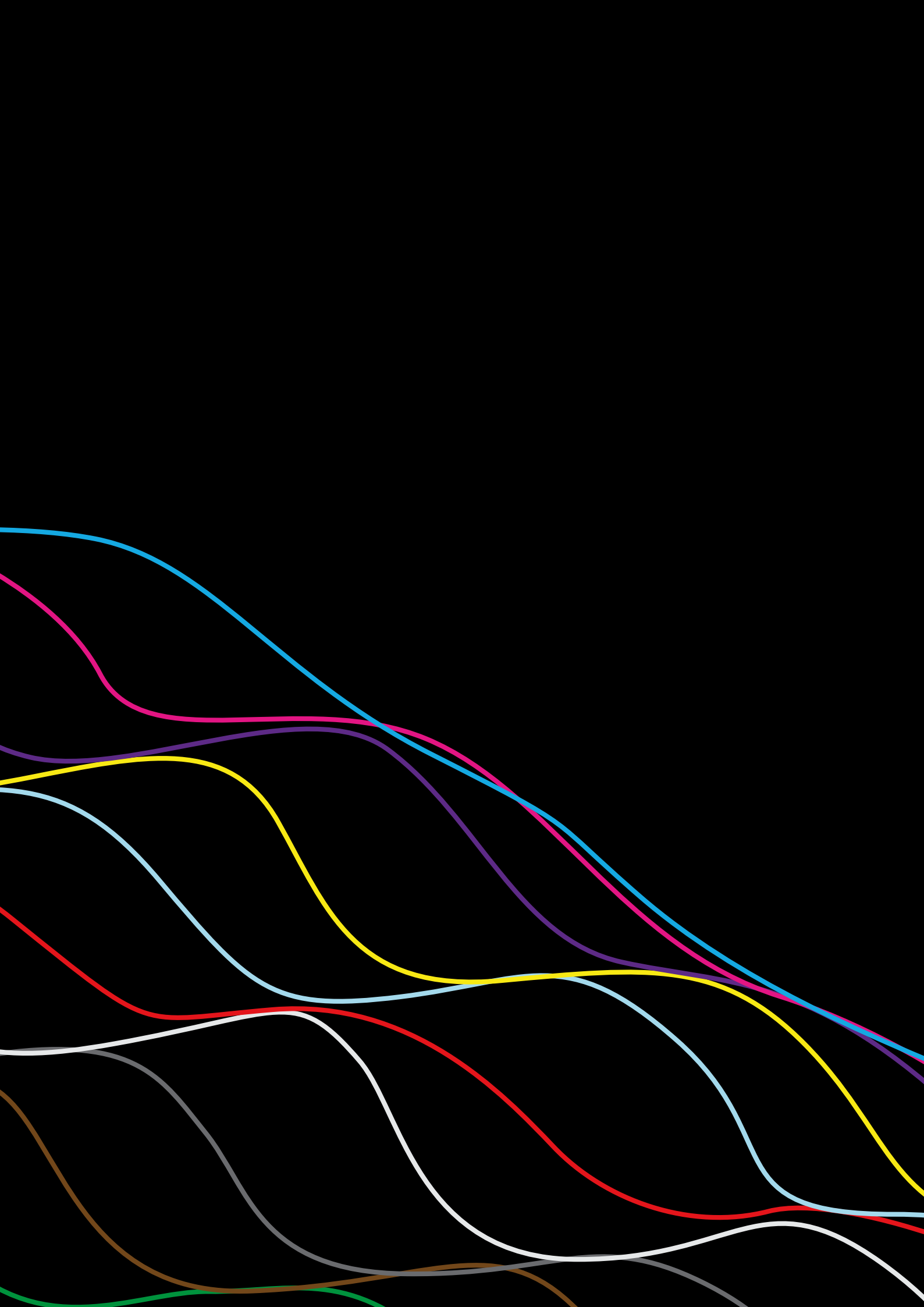
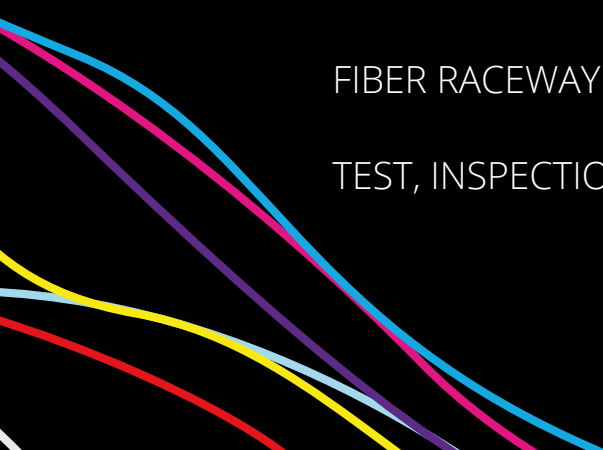


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INTRODUCTION

The extraordinary growth of Cloud Computing, Internet of Things and Artificial Intelligence in the last decade has had a dramatic impact on Data Center scale, design and connectivity.

These services are the fastest growing among all large systems activities worldwide and have led to the development of new data center architectures, with Hyperscale Data Centers being built in clusters and multiple Co-location data centers being built in campus environments.

A Data Center is more than a space that simply houses servers and network equipment – it's a system. The term "system" is defined as "a set of interacting or interdependent entities, real or abstract, forming an integrated whole.

Within the Data Center, the various entities that make up the system work together to protect and manage both current and future equipment, the data transmitted, and the thousands of connections between servers and switches and the outlying areas of the network.

All these entities are interrelated and connected by the structured cabling system, which designers and end-users are striving to design for better scalability, flexibility, manageability, availability and lower total cost of ownership.

We know that designing a Data Center structured cabling system is a complex and often confusing task with many options to weigh and consider, and we're here to help.

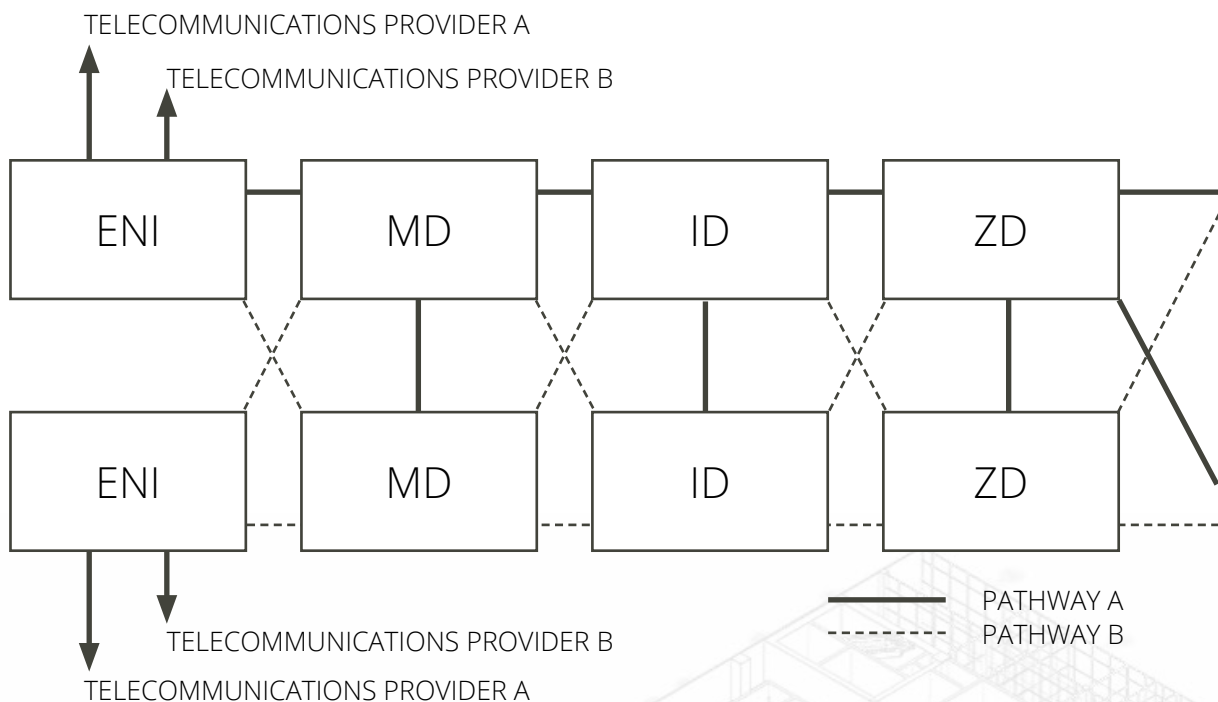


DESIGN

There are different standards and guidelines addressing cabling infrastructure in Data Centers like EN, ISO/IEC, TIA and Uptime® that defines specific functional areas to help determine the placement of cabling, components and equipment. Following these guidelines for functional area layout is the first step in establishing a well-designed cabling infrastructure for your Data Center.

For example, the cabling infrastructure often described in standards and guidelines shall use a fixed cabling infrastructure in cabling subsystems with a multi-path redundancy configuration using diverse physical pathways and redundant distribution areas as shown in Figure 13.

FIGURE 13: FIXED TELECOMMUNICATIONS CABLING CLASS 4 (SOURCE: EN 50600-2-4)



ENI - EXTERNAL NETWORK INTERFACE

The External Network Interface or the Entrance Room is the location for access provider equipment, demarcation points and interface with other campus locations (otherwise known as Meet Me Room).

MD - MAIN DISTRIBUTION

The main cross-connect and the core routers and switches for the corporate LAN and for connecting to the EDAs.

ID - INTERMEDIATE DISTRIBUTION

Is an optional area primarily used in large data centers. IDs may include intermediate cross-connects and are designed to enable data center growth or provide segmentation for specific applications.

ZD - ZONE DISTRIBUTION

The optional ZDA acts as a consolidation point within the Horizontal Cabling run between the HDA and EDA(s).

APPLICATION MODEL

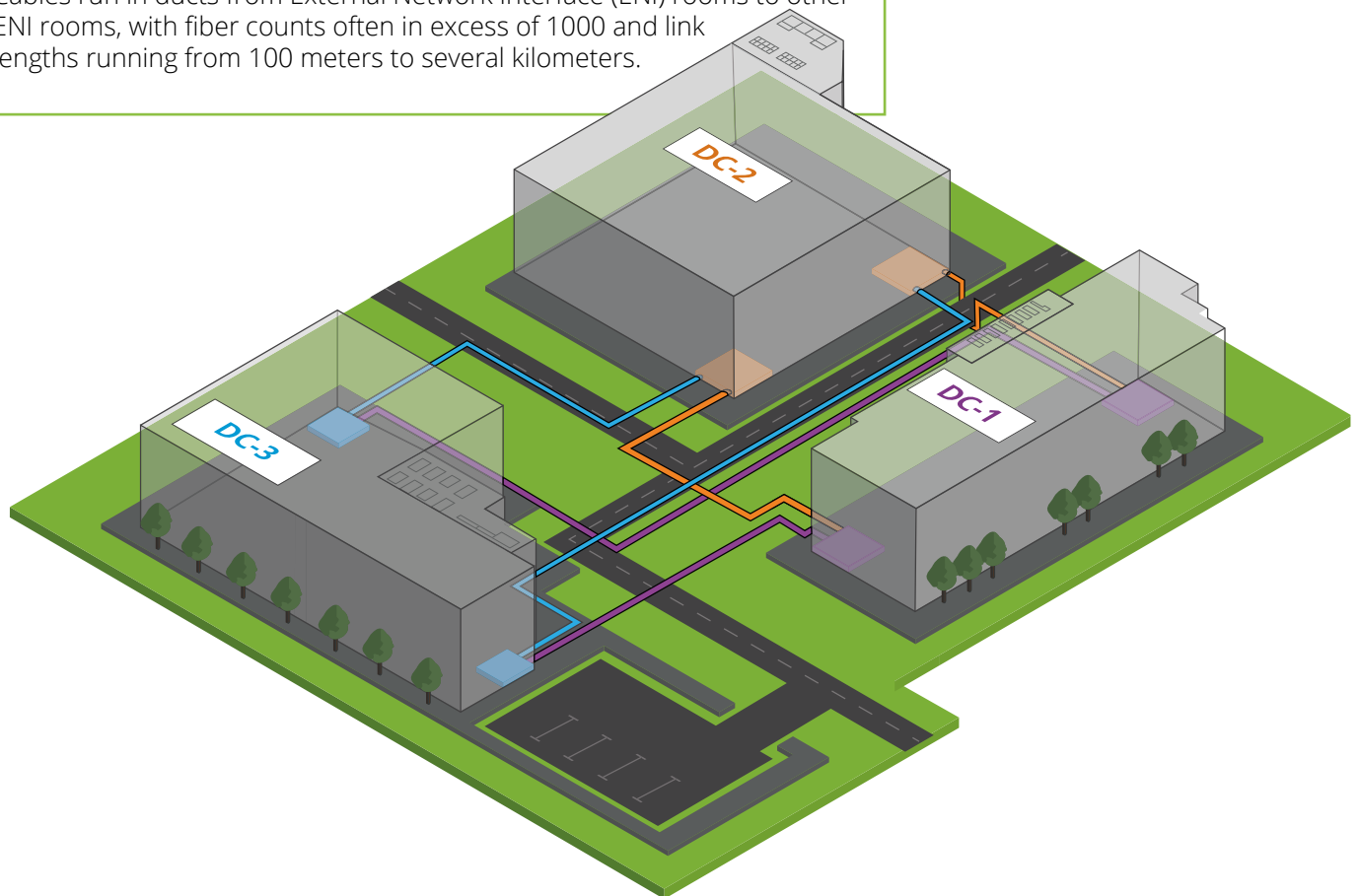
We have adopted a series of connectivity reference models including large Co-Location (Green Field), large Co-Location (Brown Field), Hyperscale and Large Enterprise/Multi-Hall scenarios. These models include campus or cluster cabling, internal Data Center trunk cabling and connections from cable entry all the way to the customer space or edge network equipment.

In this example, we look at the large Co-Location (Green Field) reference model, adopting a simplified version of the standards.

CAMPUS INTERCONNECTION

In our large Co-Location (Green Field) Reference Model, three Co-Location Data Centers are located within a campus and connected with two or more diversely routed cables.

Cables run in ducts from External Network Interface (ENI) rooms to other ENI rooms, with fiber counts often in excess of 1000 and link lengths running from 100 meters to several kilometers.

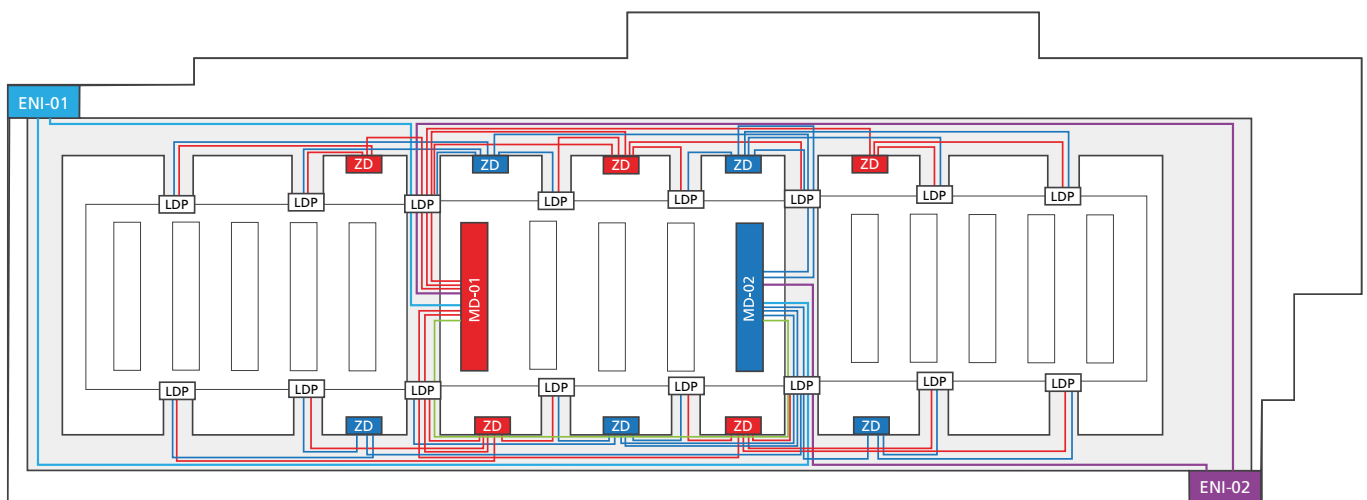


CO-LOCATION APPLICATION MODEL

In our Co-Location reference model, the network design adopted, provides maximum flexibility of connectivity between all spaces within the data center building and also to the other data centers on the campus. The design can be split into two discreet sections – the backbone and the horizontal cabling.

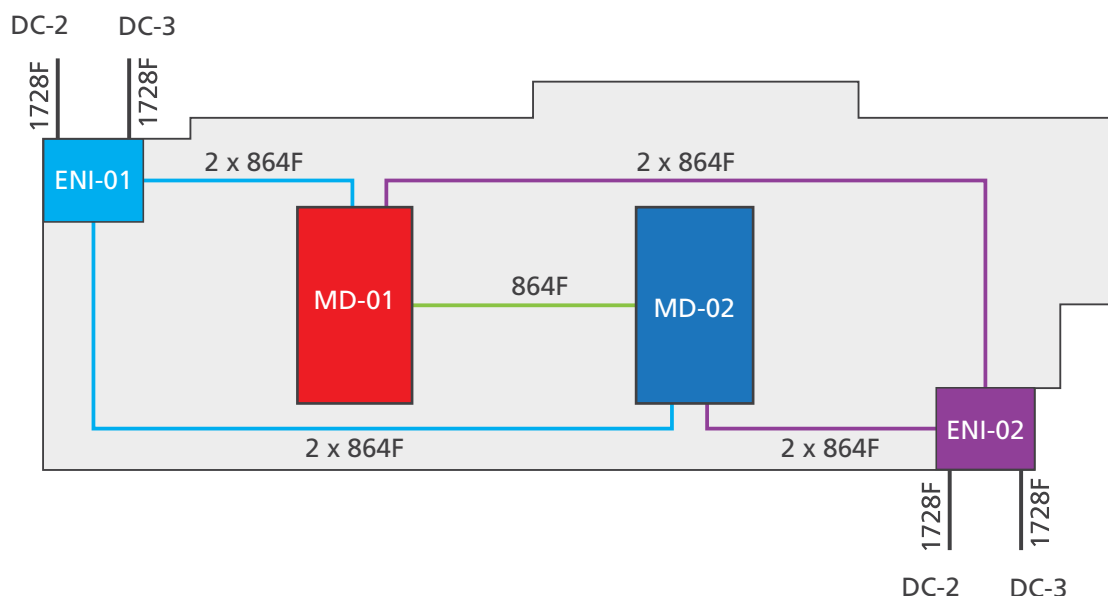
In the horizontal cabling, all of the equipment racks are cabled back to the Main Distribution frames using medium fiber count cables.

In the backbone cabling all of the MDs on the campus are interconnected, using very high fiber count cables. This allows a client in any space on the campus to be connected to a service provider located anywhere on the campus, scaling the campus into a single Hyperscale space.



DATA CENTER BACKBONE

The MD connections to the ENI, to the other MD within the data hall and to the other MDs within the data center building are often referred to as the data center backbone. These are typically linked with high density cable of 144 fibers to 864. Due to the routing of the high fiber cables through walls and between floors, routes are usually run as bare cable and fusion spliced at the termination points. Alternatively, they can be installed as single end pre-terminated cable, with the free end, pulled (or blown) from the source to the destination.

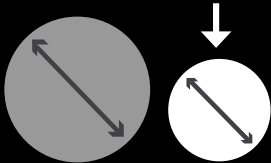
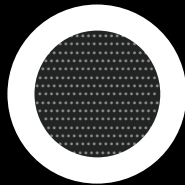


INTRODUCING THE SWR® TECHNOLOGY

Up to

6912

easy to manage fibers
in one cable



Up to

44%

smaller diameter to
similar fiber counts

40%

reduction on
installation time from
cable preparation to
mass splicing



Mass fusion splice
12 fibers at a time

or

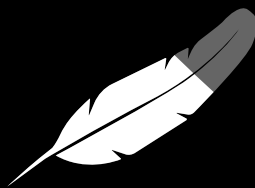


Single splice

More than

73%

lighter than today's
ribbon cables



The SWR® technology is the answer to your need of ultra-high fiber count (UHFC) solution evolving data center network, providing interconnection between and within data center buildings on a scale, never seen before.

SWR® technology is a bonded fiber design that allows for both highly efficient ribbon termination and legacy discrete fiber termination. Compact, ultra-high fiber count cables fabricated using SWR fiber are central to the UHFC Solution.

12 fibers are intermittently connected together using a resin bond, the intermittent nature of the bond allows the ribbon to be bunched and collapsed similar to a bundle of loose fibers. It further lets the ribbon act as either a traditional ribbon for mass fusion splicing, or be broken out into individual fibers for single fiber handling.

SWR® technology significantly reduces cable diameter and weight, and is used in ultra-high fiber count indoor and outdoor cable types, resulting in lower installation costs and major improvements in utilization of cable pathways and duct space.

CABLE CONSTRUCTIONS UTILIZING SWR® TECHNOLOGY

Both Rollable Ribbon Technology from OFS and SpiderWeb Ribbon® from AFL is available in many different cable constructions types.

This makes the SWR® technology fiber cables an ideal choice for indoor and outdoor use, connecting data centers, or serving as the distribution for dense FTTx and mobility network.

HIGH FIBER

COUNT MASS FUSION SPLICE

Designed for applications in a Building Entrance Facility like ENI and MD, providing an enclosure to splice Outside Plant Cables to Inside Plant Cable. The cabinets can be fitted into small spaces such as rooms with limited physical space.

MASS FUSION SPLICE WALL CABINET FOR 3456FO RIBBON FIBER AND SWR

The splice cabinet features leaf style trays which allow 144 fiber mass fusion splices per tray and a raceway & manifold system ensures 250µm fiber is protected at all times. Various sizes of cable entries are possible at both top and bottom with modular tie off points allowing up to 8 x Ø34mm at a time. Mass fusion splice for traditional ribbon and SWR fiber with option for standard fiber optic cables. With standard splice tray the core count is 864 fiber if all 24 standard splice trays of 36 fiber per tray are used.



PART NO	PRODUCT DESCRIPTION	RACK UNIT	WxDxH (mm)
FXHCXXWXXX-01ZZ	3456f Mass Fusion Splice Wall Cabinet 24x144FO Ribbon, 24x36FO single fiber	-	585x227x882

FUSION SPLICE WALL/19" RACK CABINET 288FO SINGLE FIBER / 864FO STANDARD RIBBON / 1152FO SWR

This innovative cabinet providing an enclosure to splice up to max 1152 fiber count. The cabinet can be fitted into small spaces such as rooms with limited physical space. It can be installed as a single unit or stackable with multiple units. It can be both wall mounted or in pre-mounted on the standard 19" racks. Up to maximum of 288 fiber count for single fiber, 864 fiber count for standard ribbon and 1152 fiber count for SWR fiber cables.



PART NO	PRODUCT DESCRIPTION	RACK UNIT	WxDxH (mm)
HCF-FS-288F-WC	288f Mass Fusion Splice Wall Cabinet 12x Splice Trays for 2x12 single fiber splice holder per tray	14HE	404x167x616

6U HCF HIGH CAPACITY SPLICING AND PATCH FRAME 19" 864FO

The 6U HCF Splicing & Patch Frame is a high density rack mountable fiber management solution that splices and patches up to 864 fibers in a 6RU cabinet space with Ultra High Density LC adapter modules for 432 LC duplex connectors. The 6U HCF has ribbon cabling splicing via a rear positioned hinge down panels that is supplied with a latching feature for both open and closed positions and shuttered Ultra High Density LC adapter modules on the front of the frame, allowing for smooth patching and easy LC port access.



PART NO	PRODUCT DESCRIPTION	RACK UNIT	WxDxH (mm)
F7HAAFBEX-05AM	HCF Splice Frame Black 6U Sub Rack Assembly 864F Premium LC G.657A1 (Traditional Ribbon Pigtails)	6HE	558x498x266

ULTRA HIGH DENSITY SOLUTION

Assemblies consist of high-performance, customizable MPO, pre-terminated, and patchcord assemblies. Building Blocks include UHD Modules, that can be connected by MPO, direct termination(LC or SC), or by splicing (LC or SC), as well as MPO adaptor plates, QSFP transition modules, and copper modules. Chassis consist of 1U, 2U and ZeroU configurations, 6U and 9U patch frames, and UHD MPO to LC panels.

UHD 1U CHASSIS 19"

1U Ultra High Density (UHD) Chassis is the part of the system for high density fiber optics infrastructure management in Data Centres, Telecommunication and Enterprise environment. 1U chassis can house up to 5 x UHD Modules design allows to scale up to 120x LC ports and 960 fibers using MPO/ MTP Interface.

PART NO	PRODUCT DESCRIPTION	RACK UNIT	WxD (mm)
FXUCXXBXXX-01BH	UHD Chassis Black 5-slot 1RU include Front Door+ Rear Mgt	1	479x226



UHD 2U CHASSIS 19"

2U Ultra High Density (UHD) Chassis is the part of the system for high density fiber optics infrastructure management in Data Centers, Telecommunication and Enterprise network environment. 2U chassis can house up to 12 x UHD Modules design allows to scale up to 288x LC ports and 2304 fibers using MPO Interface.

PART NO	PRODUCT DESCRIPTION	RACK UNIT	WxD (mm)
FXUCXXBXXX-02BG	UHD Chassis Black 12-slot 2RU include Front Door	2	484x139
FXUCXXBXXX-03XX	Rear Cable Management Accessory for 2RU Chassis	-	484x139



UHD 0U SOLUTION

The Ultra High Density 0U solution is designed to allow outside rack U space installation of UHD MPO/MTP, preterm or splice modules. The UHD 0U kit contains an assembled chassis accepting 1 x module, mounting plate and a set of installation screws. The mounting plate can be installed in a variety of positions. 0U chassis are designed to be easily stacked together creating multiple modules outside rack chassis structures.

PART NO	PRODUCT DESCRIPTION	RACK UNIT	WxD (mm)
FXUAXXBXXX-01ZZ	UHD 1-slot Installation Kit Black 0RU	-	88x43x76



BLANK MODULE

Ultra High Density Blank Module for use with the Ultra High Density chassis.

PART NO	PRODUCT DESCRIPTION	RACK UNIT	WxD (mm)
FXUEXXBXXX-01ZZ	UHD Blank Modul Black	-	-



ULTRA HIGH DENSITY (UHD)

MPO MODULE

UHD module with its unique footprint provides scalability for high density fiber optics infrastructure with up to 288 fibers inside a 2U space. Patented LC Quad shuttered adapter design allows for connector finger access without the need of using extra extraction tool. Dual lock position allow for fixing the module in the intermediate patch installation position as well as secure module inside the chassis. Single module can be accessed anytime using pull release element. Ultra High Density Modules provides an interface between MPO Trunks and LC interface of active equipment.



MPO12 - LC Multimode OM4 Method A polarity

PART NO	PRODUCT DESCRIPTION
AJUD12BPVA-04DA	UHD Module OM4 1x12 MPO 6xLCD Erica Violet MTP Elite male Type A 12-fiber
AJUD24BPVA-04DA	UHD Module OM4 2x12 MPO 12xLCXD Erica Violet MTP Elite male Type A 24-fiber



MPO24 - LC Multimode OM4 Method A polarity

PART NO	PRODUCT DESCRIPTION
AJUD24BPVA-04DF	UHD Module OM4 1x24 MPO12xLCXD rak MTP Elite male Type A 24-fiber



MPO12 - LC Single mode SM OS2 Method A

PART NO	PRODUCT DESCRIPTION
A7UD12BPVA-04DA	UHD Module SM OS2 1x12 MPO 6xLCD rak MTP Elite male Type A 12-fiber
A7UD24BPVA-04DA	UHD Module SM OS2 2x12 MPO12xLCXD rak MTP Elite male Type A 24-fiber



MPO24 - LC Single mode SM OS2 Method A polarity

PART NO	PRODUCT DESCRIPTION
A7UD24BPVA-04DF	UHD Module SM OS2 1x24 MPO12xLCXD rak MTP Elite male Type A 24-fiber

TRANSITION MODULE

40G parallel optics transceivers like QSFP+ can support 4x10G modes- this feature allows new parallel optics active equipment being compatible with existing 10G transceivers.



2X40G QSFP+ (MPO) TO 8X10G SFP+ (16XLC).

Transition Module provides interface between 2xQSFP+ (40G transceiver with MPO/ MTP® interface) and 8xSFP+ devices (10G transceivers with LC(DX) Interface). Transition modules introduce convenient patching position facilitating potential adds, changes or reconfigurations to installed cabling and is a perfect alternative to fixed equipment to equipment connections provided by QSFP+ to SFP+ Fan-out Assemblies. Single 2x40G QSFP+ (MPO/MTP®) to 8x10G SFP+ (16xLC) Transition Module provides a transition function of 2xQSFP+ to SFP+ Fan-out Assemblies. All optical ports are positioned in front of UHD modules providing convenient front access.

PART NO	PRODUCT DESCRIPTION
A4UD16BPVA-04DL	UHD Module Transition MM QSFP+/SFP+ 2xMPO-16xLCD
A7UD16BPVA-04DL	UHD Module Transition SM OS2 QSFP+/SFP+ 2xMPO-16xLCD



3X40G QSFP+ (MPO) TO 12X10G SFP+ (24XLC)

Transition Module provides interface between 3xQSFP+ (40G transceiver with MPO interface) and 12xSFP+ devices (10G transceivers with LC(DX) Interface). Transition modules introduce convenient patching position facilitating potential adds, changes or reconfigurations to installed cabling and is a perfect alternative to fixed equipment to equipment connections provided by QSFP+ to SFP+ Fan-out Assemblies. Single 3x40G QSFP+ (MPO) to 12x10G SFP+ (24xLC) Transition Module provides a transition function of 3xQSFP+ to SFP+ Fan-out Assemblies.

PART NO	PRODUCT DESCRIPTION
A4UD24BPVA-04DM	UHD Module Transition MM QSFP+/SFP+ 3xMPO-24xLCD
A7UD24BPVA-04DM	UHD Module Transition SM OS2 QSFP+/SFP+ 3xMPO-24xLCD



MPO/MTP adapter modules are used to interconnect MPO/MTP trunks and patch cables

PART NO	PRODUCT DESCRIPTION
FNUB96BXUX-08AD	UHD Adaptor Plate 8xMPO Adapter Type A Key-Up/Key-Down 96FO
FNUBABBXUX-12AD	UHD Adaptor Plate 12xMPO Adapter Type A Key-Up/Key-Down 144FO

ULTRA HIGH DENSITY COPPER MODULE

UHD Copper Module compliments UHD system allowing for copper links to co-exist in common with fiber optics oriented high density management. Copper module is fully compatible with 0U, 1U and 2U UHD chassis system and 2U Patching frame accepting up to 5 modules in 1U and up to 12 x modules in 2U space.

PART NO	PRODUCT DESCRIPTION
MTPCU-S/E	UHD Adapter plate 4 ports Keystone unloaded
MTPC6U-PP-05.0	MTPC trunk 4xC6 UTP 5,0m
MTPC6U-PP-10.0	MTPC trunk 4xC6 UTP 10,0m
MTPC6U-PP-12.5	MTPC trunk 4xC6 UTP 12,5m
MTPC6U-PP-15.0	MTPC trunk 4xC6 UTP 15,0m
MTPC6U-PP-20.0	MTPC trunk 4xC6 UTP 20,0m
MTPC6U-PP-25.0	MTPC trunk 4xC6 UTP 25,0m
MTPC6U-PP-30.0	MTPC trunk 4xC6 UTP 30,0m
MTPC6AS-PP-05.0	MTPC trunk 4xC6a STP 5,0m
MTPC6AS-PP-10.0	MTPC trunk 4xC6a STP 10,0m
MTPC6AS-PP-12.5	MTPC trunk 4xC6a STP 12,5m
MTPC6AS-PP-15.0	MTPC trunk 4xC6a STP 15,0m
MTPC6AS-PP-20.0	MTPC trunk 4xC6a STP 20,0m
MTPC6AS-PP-25.0	MTPC trunk 4xC6a STP 25,0m
MTPC6AS-PP-30.0	MTPC trunk 4xC6a STP 30,0m

Cable lengths shown are for example; additional cable lengths are available upon request.



COPPER SLIM PATCH CORDS

SlimPatch Cords with a reduced 28 AWG diameter for improved airflow and increased flexibility in high-density patching areas. This also allows for an increased bend radius for easier cable routing and management.

PART NO	PRODUCT DESCRIPTION
SGC6U0.2/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 0,2m
SGC6U0.5/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 0,5m
SGC6U1.0/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 1,0m
SGC6U1.5/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 1,5m
SGC6U2.0/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 2,0m
SGC6U3.0/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 3,0m
SGC6U5.0/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 5,0m
SGC6U7.5/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 7,5m
SGC6U10.0/WH	ECS Slim patch Cat. 6 AWG28 white U/UTP 10,0m
SGC6AS0.5/WH	ECS Slim patch Cat. 6A AWG28 white U/FTP 0,5m
SGC6AS1.0/WH	ECS Slim patch Cat. 6A AWG28 white U/FTP 1,0m
SGC6AS1.5/WH	ECS Slim patch Cat. 6A AWG28 white U/FTP 1,5m
SGC6AS2.0/WH	ECS Slim patch Cat. 6A AWG28 white U/FTP 2,0m
SGC6AS3.0/WH	ECS Slim patch Cat. 6A AWG28 white U/FTP 3,0m
SGC6AS5.0/WH	ECS Slim patch Cat. 6A AWG28 white U/FTP 5,0m
SGC6AS7.5/WH	ECS Slim patch Cat. 6A AWG28 white U/FTP 7,5m
SGC6AS10.0/WH	ECS Slim patch Cat. 6A AWG28 white U/FTP 10,0m



PARALLEL OPTICS

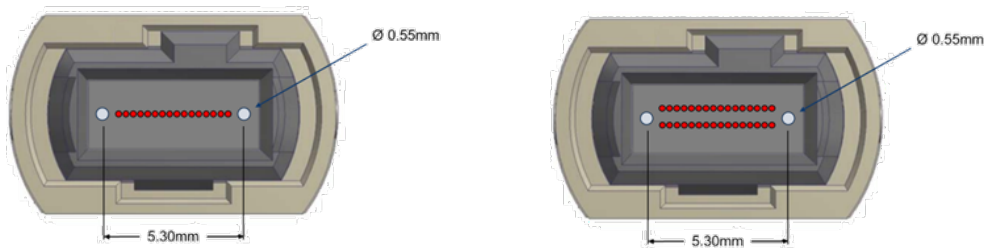
MPO

Parallel optics combining the use of cables and fiber optics serve as the medium to satisfy the growing need for transmission speed and data volume. The MPO format dramatically reduce the amount of time, effort, and space required to install and deploy network technologies.

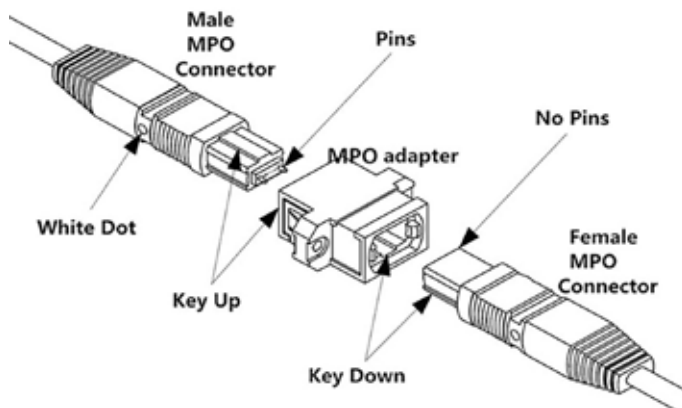
An MPO connector generally contains 12 or 24 fibers and can be used for parallel optical applications such as Infiniband and Ethernet protocols. The most common is the MPO-12 which has one row of 12 fibers and the higher-density MPO-24 connector is composed of 2 rows of 12 fibers.



The MPO-16 and MPO-32 also exists on the market, made up of one row of 16 fibers. Additionally, the MPO-32 is made up of two rows of 16 fibers each.



MPO connectors are either male (with pins) or female (without pins) to ensure alignment of the fiber end faces during mating.



Since the MPO interfaces on active equipment are male (with pins), MPO patch cords should be female (without pins) to avoid damage to the transceiver. MPO connectors also include a key on the top side of the connector and a white dot on the side to indicate the location of Position 1. The orientation of the key is critical when it comes to polarity.

MPO

TRUNK ASSEMBLY

MPO MicroCable Trunks facilitate rapid deployment of high-density backbone cabling in data centers or other high fiber density environments reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedised MPO Fan Outs, spanning MDA, HDA and EDA zones. MPO low loss Premium versions are offered featuring low insertion loss for demanding high-speed networks where power budgets are critical.

MULTIMODE OM4 MPO ELITE FERRULE 12 FIBER TRUNK ERICA VIOLET MICROCABLE DOUBLE JACKET OD 4.5MM TYPE A FEMALE-FEMALE

PART NO	PRODUCT DESCRIPTION
MPOT-12OM4-xxx/FR	ECS MPO Elite Trunk 1x12 Female-Female Type A Straight OM4

TYPE B MALE-MALE

PART NO	PRODUCT DESCRIPTION
MPOT-12OM4-xxx/MK	ECS MPO Elite Trunk 1x12 Male-Male Type B Cross Over OM4

MULTIMODE OM4 MPO ELITE FERRULE 24 FIBER TRUNK ERICA VIOLET MICROCABLE DOUBLE JACKET OD 4.5MM TYPE A 1-13, 24-12 FEMALE-FEMALE

PART NO	PRODUCT DESCRIPTION
MPOT-24OM4-xxx/FR	ECS MPO Elite Trunk 1x24 Female-Female Type A OM4

SINGLEMODE OS2 MPO ELITE FERRULE 12 FIBER TRUNK YELLOW MICROCABLE DOUBLE JACKET OD 4.5MM TYPE A FEMALE-FEMALE

PART NO	PRODUCT DESCRIPTION
MPOT-12OS2-xxx/FR	ECS MPO Elite Trunk 1x12 Female-Female Type A Straight OS2

TYPE B MALE-MALE

PART NO	PRODUCT DESCRIPTION
MPOT-12OS2-xxx/MK	ECS MPO Elite Trunk 1x12 Male-Male Type B Cross Over OS2

SINGLEMODE OS2 MPO ELITE FERRULE 24 FIBER TRUNK YELLOW MICROCABLE DOUBLE JACKET OD 4.5MM TYPE A 1-13, 24-12 FEMALE-FEMALE

PART NO	PRODUCT DESCRIPTION
MPOT-24OS2-xxx/FR	ECS MPO Elite Trunk 1x24 Female-Female Type A OS2

XX=length
Available length in stock:

5m	7,5m	10m
12,5m	15m	20m
25m	30m	35m
40m	45m	50m
55m	60m	70m
100m		

Other length is available upon request



MPO POLARITY

You can always contact Alcadon for guidance, we can make any kind of polarity and configuration at your request. For example the TIA spec for cabling (TIA-568) has more than 20 pages of possible combinations for MPO cable plants, varying in pins/ no-pins, keying, types of connectors, color codes and numbering schemes.

MPO

PATCH CORD ASSEMBLY

MPO MicroCable Patch assemblies are offered as standard 12 or 24 fibers using a compact and rugged 3mm OD Single Jacket MicroCable structure. The compact cables optimizes patch cable-way use and improves the airflow and are typically used for patching within MDA zone or interconnect MPO active equipment ports with backbone cabling. MPO MicroCable assemblies are built with highest quality components. MPO low loss Premium versions are offered featuring low insertion loss for demanding high speed networks with critical power budget requirements.

XXX=length
Available length in stock:

1m	2m	3m	5m
7m	10m	12,5m	15m
20m	25m	30m	35m
40m			

MULTIMODE OM4 MPO ELITE FERRULE 12 FIBER PATCH CORD ERICA VIOLET MICROCABLE JACKET OD 3MM

TYPE B FEMALE-FEMALE

PART NO	PRODUCT DESCRIPTION
MPOP-12OM4-xx/FK	ECS MPO Elite Patch 1x12 Female-Female Type B Cross Over OM4



MULTIMODE OM4 MPO ELITE FERRULE 24 FIBER PATCH CORD ERICA VIOLET MICROCABLE JACKET OD 3MM

TYPE A 1-13, 24-12 FEMALE-FEMALE

PART NO	PRODUCT DESCRIPTION
MPOP-24OM4-xx/FK	ECS MPO Elite Trunk 1x24 Female-Female Type A OM4

SINGLEMODE OS2 MPO ELITE FERRULE 12 FIBER PATCH CORD YELLOW MICROCABLE JACKET OD 3MM

TYPE B FEMALE-FEMALE

PART NO	PRODUCT DESCRIPTION
MPOP-12OS2-xx/FK	ECS MPO Elite Patch 1x12 Female-Female Type B Cross Over OS2



SINGLEMODE OS2 MPO ELITE FERRULE 24 FIBER PATCH CORD YELLOW MICROCABLE JACKET OD 3MM

TYPE A 1-13, 24-12 FEMALE-FEMALE

PART NO	PRODUCT DESCRIPTION
MPOP-24OS2-xx/FK	ECS MPO Elite Trunk 1x24 Female-Female Type A OS2

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You can always contact Alcadon for guidance, we can make any kind of polarity and configuration at your request. For example, the TIA spec for cabling (TIA-568) has more than 20 pages of possible combinations for MPO cable plants, varying in pins/no-pins, keying, types of connectors, color codes and numbering schemes.

MPO

FAN-OUT ASSEMBLY

MPO Fan-Out Assemblies interface multifiber MPO with discrete single fiber LC connectors. Assemblies are typically used to directly interconnect MPO cassettes, panels or backbone trunk assemblies with the active equipment ports, saving costly data center rack space and easing fiber management. Replacing traditional MPO module Fan-Out Assemblies reduce amount of interconnection improving power budget cost effectiveness. MPO Fan-Outs are built with highest quality components. Low Loss Premium MPO and LC terminations are offered featuring low insertion loss for demanding power budgets critical applications.

XX=length

Available length in stock:

1m	2m	3m	5m
7m	10m	12,5m	15m
20m	25m	30m	35m
40m			

MULTIMODE OM4 MPO ELITE FERRULE 12 FIBER ERICA VIOLET MICROCABLE JACKET OD 4,5MM TO 12X 2MM SIMPLEX TAILS FANOUT LC/UPC CONNECTORS

MPO ELITE FEMALE 12F TO 12XLC/UPC TYPE A STRAIGHT

PART NO	PRODUCT DESCRIPTION
MPOF-12LCOM4-xx/FK	ECS Fanout MPO12 Female to 12xLC/UPC OM4 Type A



MULTIMODE OM4 MPO ELITE FERRULE 8 FIBER ERICA VIOLET MICROCABLE JACKET OD 4,5MM TO 8X 2MM SIMPLEX TAILS FANOUT LC/UPC CONNECTORS

40G QSFP+ (MPO) TO 4X10G SFP+ (8XLC) ASSEMBLY

PART NO	PRODUCT DESCRIPTION
MPOF-8LCOM4-xx/FK	ECS Fanout 40G QSFP+ (MPO) To 4x10G SFP+ (8xLC) OM4 Type A



SINGLEMODE OS2 MPO ELITE FERRULE 12 FIBER YELLOW MICROCABLE JACKET OD 4,5MM TO 12X 2MM SIMPLEX TAILS FANOUT LC/UPC CONNECTORS

MPO ELITE FEMALE 12F TO 12XLC/UPC TYPE A STRAIGHT

PART NO	PRODUCT DESCRIPTION
MPOF-12LCOS2-xx/FK	ECS Fanout MPO12 Female to 12xLC/UPC OS2 Type A



SINGLEMODE OS2 MPO ELITE FERRULE 8 FIBER YELLOW MICROCABLE JACKET OD 4,5MM TO 8X 2MM IMPLEX TAILS FANOUT LC/UPC CONNECTORS

40G QSFP+ (MPO) TO 4X10G SFP+ (8XLC) ASSEMBLY

PART NO	PRODUCT DESCRIPTION
MPOF-8LCOS2-xx/FK	ECS Fanout 40G QSFP+ (MPO) To 4x10G SFP+ (8xLC) OS2 Type A



MPO POLARITY

Please contact Alcadon for guidance, we can make any kind of polarity and configuration at your request. For example the TIA spec for cabling (TIA-568) has more than 20 pages of possible combinations for MPO cable plants, varying in pins/no-pins, keying, types of connectors, color codes and numbering schemes.



G2 FAMILY

The G2 family of panels and modules is a versatile solution that is available in configurations for any application. No matter what polarity, fiber count or performance needed; the G2 family has a solution. Our G2 family modules fit into any AGL, HD or UD panels offering density up to 48f duplex LC or 32f MPO adding flexibility to any configuration.

THE FOLLOWING HIGH-LEVEL OVERVIEW PROVIDES DETAILS OF THE AGL, HD AND UD PANELS AND ASSOCIATED MODULES AND COMPONENTS.

AGL - AGILE - The AGL panel is a low cost solution for usable density in a 1U format. Simple & Cost Effective 96 LC/RU 32 MPO/RU



PART NO	PRODUCT DESCRIPTION
760241517	AGILE 1U fixed panel, accepts (4) G2 modules or adapter packs providing up to 48 duplex LC or 32 MPO ports
760241518	AGILE 1U fixed angled panel, accepts (4) G2 modules or adapter packs providing up to 48 duplex LC or 32 MPO ports




HD - HIGH DENSITY

The HD (High Density) panel is available in 1U, 2U and 4U sizes, and supports high density applications in data centers and buildings. Premium Features 96 LC/RU 32 MPO/RU Standard Sliding.



PART NO	PRODUCT DESCRIPTION
760210732	High Density 1U modular cassette fixed Panel, accepts (4) InstaPATCH® 360 modules or MPO panels, providing up to 48 duplex LC ports, or up to 32 MPO ports
760210740	High Density 2U modular cassette fixed Panel, accepts (8) InstaPATCH® 360 modules or MPO panels, providing up to 96 duplex LC ports or up to 64 MPO ports
760210757	High Density 4U modular cassette fixed Panel, accepts (16) InstaPATCH® 360 modules or MPO panels, providing up to 192 duplex LC ports or up to 128 MPO ports



760209940	High Density 1U modular cassette sliding Panel, accepts (4) InstaPATCH® 360 modules or MPO panels, providing up to 48 duplex LC ports, or up to 32 MPO ports
760209957	High Density 2U modular cassette sliding Panel, accepts (8) InstaPATCH® 360 modules or MPO panels, providing up to 96 duplex LC ports or up to 64 MPO ports
760209965	High Density 4U modular cassette sliding Panel, accepts (16) InstaPATCH® 360 modules or MPO panels, providing up to 192 duplex LC ports or up to 128 MPO ports



760231506	High Density 1U Sliding fiber Panel, accepts (4) InstaPATCH® 360 modules or MPO panels, providing up to 48 duplex LC ports, or up to 32 MPO port, accepts splice wallets, RoloSplice trays and stackable splice trays
760231514	High Density 2U Sliding Fiber Splice Panel, to accommodate a maximum of 96 single fusion splices when using the Splice Wallet® or 64 single fusion splices when using the RoloSplice® splice tray organizers
760231522	High Density 4U Sliding Fiber Splice Panel, to accommodate a maximum of 192 single fusion splices when using the Splice Wallet® or 128 single fusion splices when using the RoloSplice® splice tray organizers

UD - ULTRA DENSITY

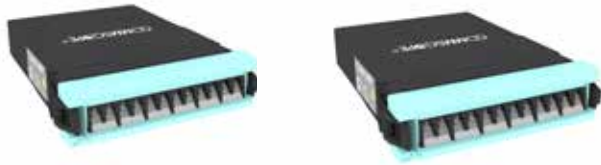
The HD (High Density) panel is available in 1U, 2U and 4U sizes, and supports high density applications in data centers and buildings. Premium Features 96 LC/RU 32 MPO/RU Standard Sliding.



PART NO	PRODUCT DESCRIPTION
760227306	Ultra High Density 2U modular cassette sliding Panel, accepts (12) InstaPATCH® 360 modules or MPO panels, providing up to 144 duplex LC ports or up to 96 MPO ports
760227314	Ultra High Density 4U modular cassette sliding Panel, accepts (24) InstaPATCH® 360 modules or MPO panels, providing up to 288 duplex LC ports or up to 192 MPO ports

G2 MPOPTIMATE® MODULES - METHOD A

G2 modules fit into the following panels: AGL, HD and UD.
G2 MPOptimate® Multimode OM4 METHOD A.



PART NO	PRODUCT DESCRIPTION
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MPO12 - LC Multimode (OM3-OM4) Method A polarity	
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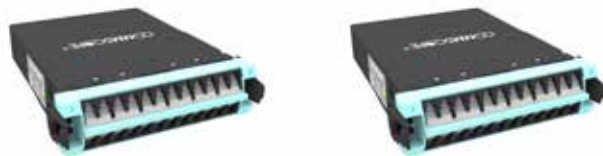
760242493	G2 MPOptimate® Multimode OM4 MPO-12 Distribution Module, 1x12F MPO pinned to 12F LC Aqua with internal shutters, Method A Pair Straight
760242494	G2 MPOptimate® Multimode OM4 MPO-12 Distribution Module, 1x12F MPO pinned to 12F LC Aqua with internal shutters, Method A Pair Flipped



PART NO	PRODUCT DESCRIPTION
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MPO12 - LC Multimode (OM3-OM4) Method A polarity	
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760242495	G2 MPOptimate® Multimode OM4 MPO-12 Distribution Module, 2x12F MPO pinned to 24F LC Aqua with internal shutters, Method A Pair Straight
760242496	G2 MPOptimate® Multimode OM4 MPO-12 Distribution Module, 2x12F MPO pinned to 24F LC Aqua with internal shutters, Method A Pair Flipped



PART NO	PRODUCT DESCRIPTION
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MPO24 - LC Multimode (OM3-OM4) Method A polarity	
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760242497	G2 MPOptimate® Multimode OM4 MPO-24 Distribution Module, 1x24F MPO pinned to 24F LC Aqua with internal shutters, Method A Pair Straight
760242502	G2 MPOptimate® Multimode OM4 MPO-24 Distribution Module, 1x24F MPO pinned to 24F LC Aqua with internal shutters, Method A Pair Flipped

G2 MPOPTIMATE® SINGLEMODE (OS2) METHOD A



PART NO	PRODUCT DESCRIPTION
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MPO12 - LC (OS2) Method A polarity	
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760242498	G2 Singlemode MPO-12 Distribution Module, 1x12F MPO pinned to 12F LC Blue with internal shutters, Method A Pair Straight
760242499	G2 Singlemode MPO-12 Distribution Module, 1x12F MPO pinned to 12F LC Blue with internal shutters, Method A Pair Flipped
760242500	G2 Singlemode MPO-12 Distribution Module, 2x12F MPO pinned to 24F LC Blue with internal shutters, Method A Pair Straight
760242501	G2 Singlemode MPO-12 Distribution Module, 2x12F MPO pinned to 24F LC Blue with internal shutters, Method A Pair Flipped

G2 MODULES - METHOD B

G2 modules fit into the following panels: AGL, HD and UD.



G2 MODULES - LOW LOSS SOLUTIONS METHOD B

PART NO PRODUCT DESCRIPTION

MPO12 - LC (OM3-OM4) Method B polarity

760224071	G2 Multimode OM4 Standard Module, 12 LC fibers (6 duplex ports) with internal shutters 360DMis-12LC-LS
760206532	G2 Multimode OM4 Standard Module, 24 LC fibers (12 duplex ports) with internal shutters 360DMis-24LC-LS



PART NO PRODUCT DESCRIPTION

MPO12 - LC (OM5) Method B polarity

LazrSPEED® WideBand extends the capability of OM4 across enough spectrum to support at least four low-cost wavelengths

760224113	G2 Multimode OM5 WideBand Module, 12 LC Ports with internal shutters 360DMis-12LC-WB
760217950	G2 Multimode OM5 WideBand Module, 24 LC fibers (12 duplex ports) with internal shutters 360DMis-24LC-WB



PART NO PRODUCT DESCRIPTION

MPO12 - LC (SM) Method B polarity

760224089	G2 Singlemode Standard Module, 12 LC Ports with internal shutters 360DMis-12LC-SM
760206540	G2 Singlemode Standard Module, 24 LC fibers (12 duplex ports) with internal shutters 360DMis-24LC-SM

MPO12 - LC (SM/APC) Method B polarity

760224238	G2 Singlemode APC Module, 12 LC Ports with internal shutters 360DMis-12LCA-SM
760206565	G2 Singlemode APC Module, 24 LC fibers (12 duplex ports) with internal shutters 360DMis-24LCA-SM

G2 MODULES - METHOD B ENHANCED

G2 modules fit into the following panels: AGL, HD and UD.

G2 MODULES - ULL MPO-24 Distribution Module 1x24F MPO unpinned to 24F LC with internal shutters, Method B Enhanced.



PART NO	PRODUCT DESCRIPTION
MPO24 - LC OM4 Aqua Method B Enhanced	
760236112	G2 ULL Multimode OM4 MPO-24 Distribution Module 1x24F MPO unpinned to 24F LC Aqua with internal shutters, Method B Enhanced
MPO12 - LC (SM) Method B Enhanced	
760238083	G2 ULL Singlemode MPO-12 Distribution Module, 2x12F MPO unpinned to 24F LC Blue with internal shutters, Method B Enhanced

G2 MPO ADAPTER PACKS METHOD A



PART NO	PRODUCT DESCRIPTION
MPO12 - LC (OS2) Method A polarity	
760243438	G2 Distribution Adapter Pack, 2 x MPO, Method A
760243439	G2 Distribution Adapter Pack, 4 x MPO, Method A
760242723	G2 Distribution Adapter Pack, 6 x MPO, Method A
760242724	G2 Distribution Adapter Pack, 8 x MPO, Method A

G2 MPO ADAPTER PACKS METHOD B



PART NO	PRODUCT DESCRIPTION
760107490	G2 Distribution Adapter Pack, 2 x MPO, Method B
760107508	G2 Distribution Adapter Pack, 4 x MPO, Method B
760107516	G2 Distribution Adapter Pack, 6 x MPO, Method B
760107524	G2 Distribution Adapter Pack, 8 x MPO, Method B

MPO FIBER TRUNK CABLE ASSEMBLY (ULL)

Ultra Low Loss (ULL) Fiber Trunk Cable Assembly, Low Smoke Zero Halogen (LSZH).



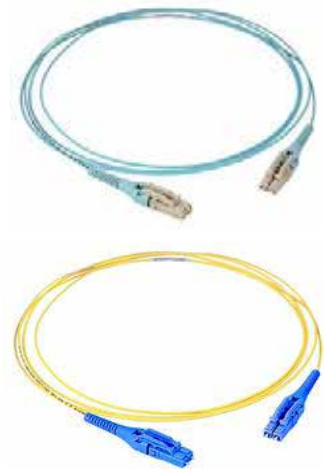
PART NO	PRODUCT DESCRIPTION
MULTIMODE OM4	
UJX2X2XBF	Ultra Low Loss (ULL) OM4 MPO24 (male)
SINGLEMODE OS2	
UJGMXMXAF	Ultra Low Loss (ULL) Singlemode MPO12 (male) to MPO12 (male)

UNIBOOT PATCH CORDS ULTRA LOW LOSS (ULL)

LC Uniboot to LC , Fiber Patch Cord, 1.5 mm Duplex, LSZH/Rise Patch cords using Uniboot technology combine, modularity, flexibility with easy insertion and removal from connectivity. Uniboot connectors feature an adjustable polarity via a manual and independent rotation of each single connector body without exposing the fibers.

PART NO	PRODUCT DESCRIPTION
Ultra Low Loss (ULL) LazrSPEED® 550 OM4 LC Uniboot to LC Uniboot	
UFXLULUK2-MXM001	ULL JUMPER LSZH,OM4,1.5MM,UNIBOOT LC, AQ 1,0mtr
UFXLULUK2-MXM002	ULL JUMPER LSZH,OM4,1.5MM,UNIBOOT LC, AQ 2,0mtr
UFXLULUK2-MXM003	ULL JUMPER LSZH,OM4,1.5MM,UNIBOOT LC, AQ 3,0mtr
UFXLULUK2-MXM005	ULL JUMPER LSZH,OM4,1.5MM,UNIBOOT LC, AQ 5,0mtr

PART NO	PRODUCT DESCRIPTION
Ultra Low Loss (ULL) TeraSpeed SM LC Uniboot to LC Uniboot	
UFGULULUK2-JXM001	ULL JUMPER LSZH,SM,1.5MM,UNIBOOT LC,YL 1,0mtr
UFGULULUK2-JXM002	ULL JUMPER LSZH,SM,1.5MM,UNIBOOT LC,YL 2,0mtr
UFGULULUK2-JXM003	ULL JUMPER LSZH,SM,1.5MM,UNIBOOT LC,YL 3,0mtr
UFGULULUK2-JXM005	ULL JUMPER LSZH,SM,1.5MM,UNIBOOT LC,YL 5,0mtr



FIBER OPTIC PATCH CABLES

Precision polished fiber cables with 2mm halogen-free cable, delivered individually packaged in plastic bag. The cabling is delivered in duplex version where fiber contact no. 1 is marked with black break protection and fiber contact no. 2 is marked with red break protection. The break protection is of a short type, which minimizes the risk of pressure on fiber patches when the space between ODF and cabinet door is tight.

XX=length
Available length in stock:

0,5m	1m	2m	3m	5m
7m	10m	15m	20m	25m
30m	Other length is available upon request			

PART NO	PRODUCT DESCRIPTION
LC-LC Duplex G.657A2	
LC-LC/xx/10/A2	ECS fiber patch duplex LC/UPC-LC/UPC G657A2 10/125 LSZH blue

PART NO	PRODUCT DESCRIPTION
LC-LC Duplex OM4	
LC-LC/xx/OM4	ECS fiber patch duplex LC/UPC-LC/UPC 50/125 OM4 LSZH erika violet

PART NO	PRODUCT DESCRIPTION
LC-LC Duplex OM5	
LC-LC/xx/OM5	ECS fiber patch duplex LC/UPC-LC/UPC 50/125 OM5 LSZH lime green



INTRODUCING THE THIRD GENERATION OF AISLE CONTAINMENT SYSTEM

A totally new aisle containment system with complete hot and cold air separation. Optimizing air flow in your data center with the use of containment has several benefits, including reducing energy costs and improving efficiency. The right choice of a cooling system gives the data center an optimal temperature. Our new aisle containment solutions separate hot from cold aisles by the roof and door sections. Together with our cooling systems, locking system and monitoring PDU:s, you have a complete future-proof and sustainable solution.

Maximum energy efficiency

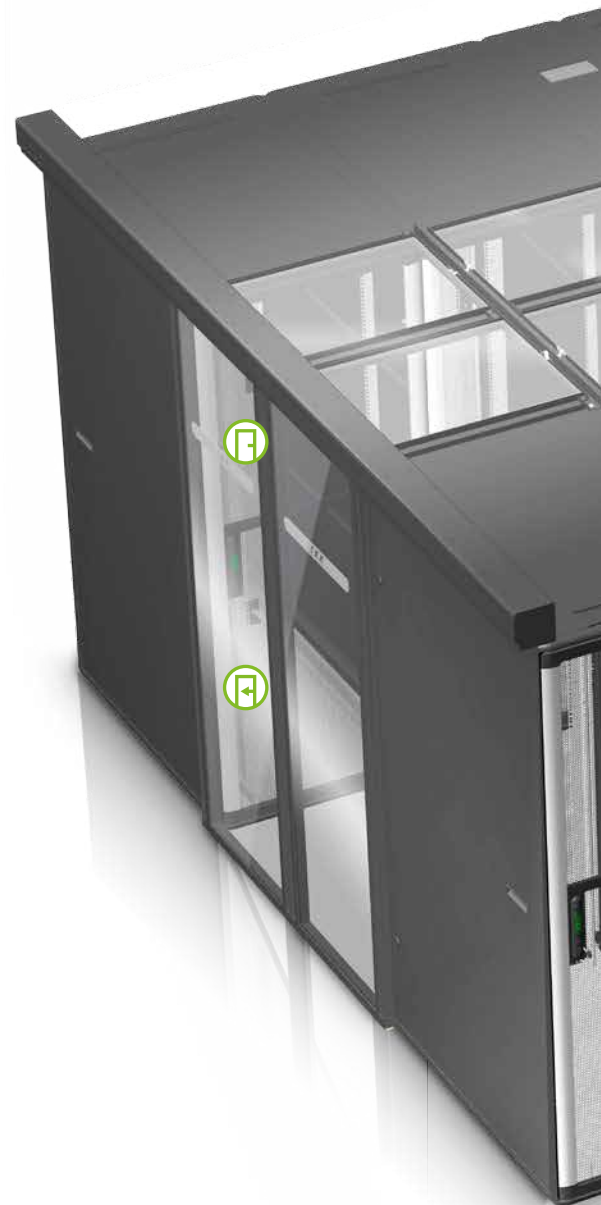
Separating the hot and cold aisles with a containment solution stops hot air recirculating and mixing with the cold inlet air. This type of recirculation reduces overall cooling efficiency and prevents the long-life of the equipment. Air cooling, where cool outside air is led into the cooling devices, is an ecological solution that is very well suited for data centers. Cooling generates excess heat that can then be used to heat the office or stairwells.

New design with maximum flexibility

KKD G3 and KKT G3 are a series of products that are required to build aisle containments with S1 server enclosures. All new design with door beam from end to end of cabinet with aluminum cover in one single piece. Integrated handles in the aluminum frame of doors. And roof sections of steel and glass. Almost all aisle containment projects require some special considerations. Therefore, all KKD G3 and KKT G3 are available in different configurations and sizes.

Minimal installation time

Our door- and roof sections easily fit with our server enclosure S1 and ensure a quick and cost-effective installation.



IMPROVE COOLING EFFICIENCY

Hot and cold air separation enables cooling system to work more efficiently.



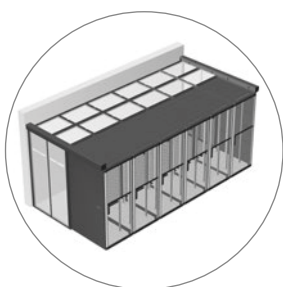
REDUCE ENERGY COSTS

The system works effectively while reducing power consumption and energy costs.



INCREASE FLEXIBILITY

Extremely stable and smooth running. 4 function levels; manual, synchronic, self-closing or automatic.



DOOR SYSTEMS
With the door section KKD G3 you easily manage airflow and security.

ROOF SYSTEMS
KKT G3 is a series of modular and scalable roof sections of steel and glass.

S1 SERVER ENCLOSURE

DETAILS THAT GIVE MAXIMUM FLEXIBILITY AND EASY ASSEMBLY



S1 is a series of server enclosures with optimal flexibility and stability to protect and organize your IT equipment. The S1 has a stable interior that supports loads up to 1500 kilos. The Enoc stepless assembly system is designed to make it easier to place the equipment exactly where you want it. The S1 is assembled with screws that ensure a quick and cost effective installation. It can be adapted as your business grows and changes. With the option of off-centre positioning, you can create plenty of space where you need it. A large space on both sides, or an extra large space on one side. The S1:s rounded corners give a nice, sleek look. The concealed screws, aluminium profiles and an integrated door contribute to a streamlined appearance.

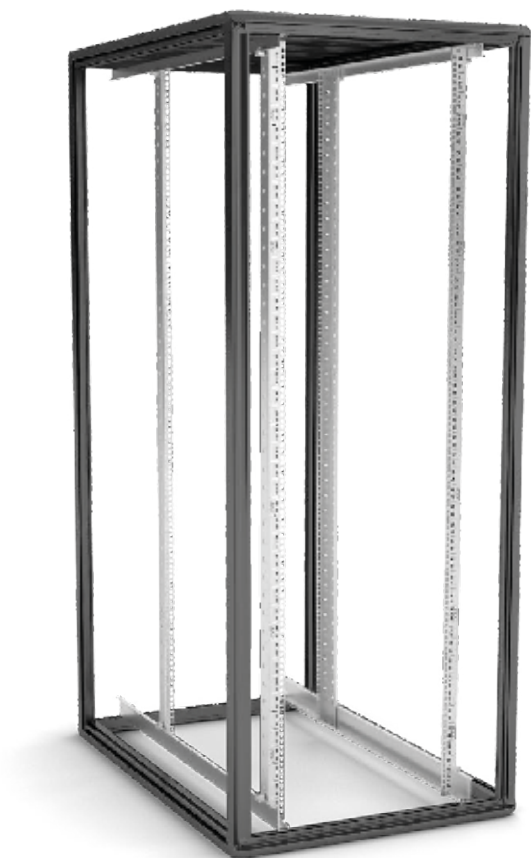
PART NO	PRODUCT DESCRIPTION	HU	WxDxH (mm)
White RAL color 9003 Black RAL color 9005			
56214	S1 server cabinet, black	24HE	600 x 1000 x 1200
56254	S1 server cabinet, black	42HE	600 x 1000 x 2000
56255	S1 server cabinet, black	42HE	600 x 1200 x 2000
56219	S1 server cabinet, black	24HE	800 x 1000 x 1200
56259	S1 server cabinet, black	42HE	800 x 1000 x 2000
56264	S1 server cabinet, black	47HE	600 x 1000 x 2200
56265	S1 server cabinet, black	47HE	600 x 1200 x 2200
56269	S1 server cabinet, black	47HE	800 x 1000 x 2200
56260	S1 server cabinet, black	42HE	800 x 1200 x 2000
56270	S1 server cabinet, black	47HE	800 x 1200 x 2200

SIZES

Height: 24, 42 & 47 HU
Width: 600 & 800 mm
Depth: 1000 & 1200 mm
Other sizes available on request.

So1 CX SERVER ENCLOSURE

So1 OPEN SERVER FRAME EASY ACCESS AND PLENTY OF OPEN SPACE



So1 is a series of open frame server-racks without sides or doors. Perfect for applications that don't require physical security. The So1 has a stable interior that supports loads up to 1500 kilos. The Enoc stepless assembly system is designed to make it easy to place the equipment exactly where you want it. The frame is assembled with nothing but screws, making it easy to assemble, dismantle and reassemble. The So1 can be adapted as your business grows and changes. The So1:s rounded corners give a nice sleek look. The concealed screws and aluminium profiles contribute to a streamlined appearance. With the option of off-centre positioning, you can create plenty of space where you need it. A large space on both sides, or an extra large space on one side.

SIZES

Height: 42HU & 47HU
Width: 600 & 800 mm
Depth: 1000 & 1200 mm

SECURITY

Locking system ensures access for authorised staff only.

COMPARTMENTS

2, 3 or 4 compartments. Possible with more compartments on request.

QUALITY

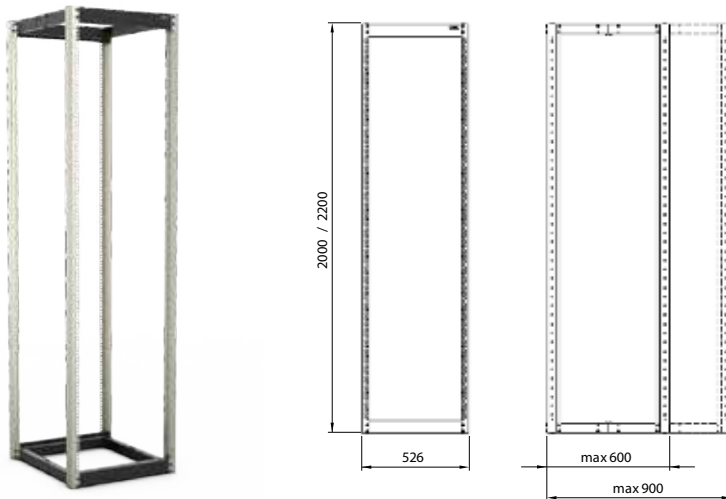
1500 kg, divided on four 19" profiles. S1 standard frame. Made of aluminium profiles. Concealed screws.

PART NO	PRODUCT DESCRIPTION	HU	WxDxH (mm)
56314	So1 server rack, black	24HE	600x1000x1200
56319	So1 server rack, black	24HE	800x1000x1200
56359	So1 server rack, black	42HE	800x1000x2000
56369	So1 server rack, black	47HE	800x1000x2200
56360	So1 server rack, black	42HE	800x1200x2000
56370	So1 server rack, black	47HE	800x1200x2200

RX SYSTEM

FOUR-POST AND TWO-POST RACK SYSTEM

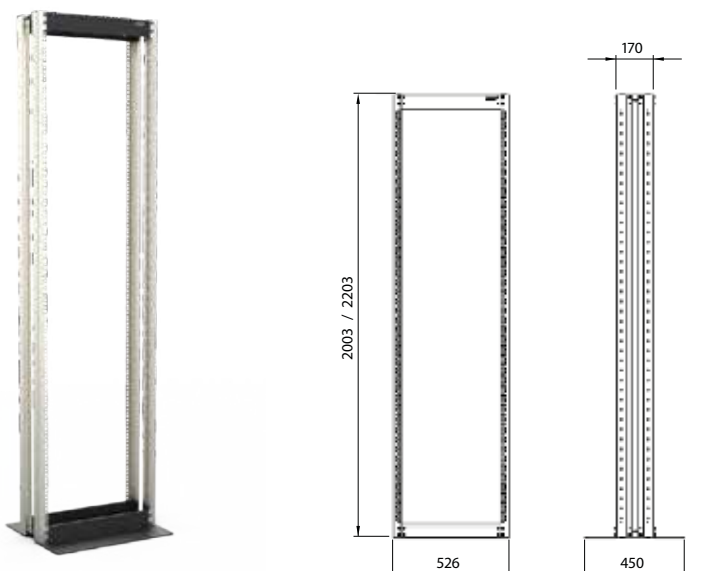
RX is a system of open server racks, especially suitable for dedicated server rooms as they save space, provide easier access and simplify cable management. Create your own unique solution with our premium rack combined with our various wall and door solutions.



R1 FOUR-POST RACK

An open and flexible solution that provides the same stability as a server cabinet. Cost-effective and space-saving for large and small installations. Adjustable in depth.

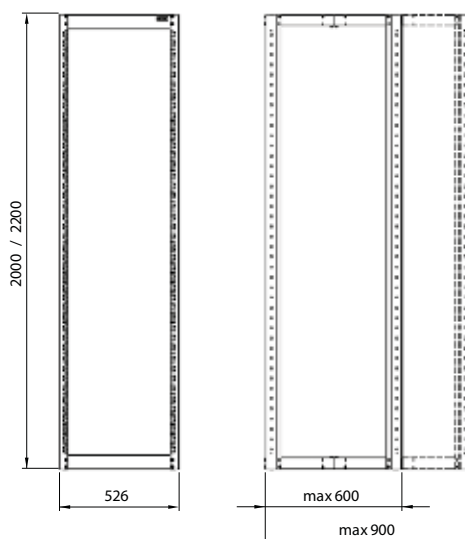
PART NO	PRODUCT DESCRIPTION	HU	WxDxH (mm)
58301	R1 42-S Open four-post rack with 19" front and back	42HE	526x600-900 x2000
58302	R1 47-S Open four-post rack with 19" front and back	47HE	526x600-900x2200



R2 TWO-POST RACK, FREE STANDING

Smart premium solution that uses less floor space than a server cabinet or a four-post rack. Stable and flexible.

PART NO	PRODUCT DESCRIPTION	HU	WxDxH (mm)
58304	R2 42-S Open two-post rack with 19" front and back	42HE	526x170/450x2003
58305	R2 47-S Open two-post rack with 19" front and back	47HE	526x170/450x2203



R3 TWO-POST RACK, WALL FIXED

Open wall mounted server rack for easy access to cables and equipment.
Suitable for high density cabling.

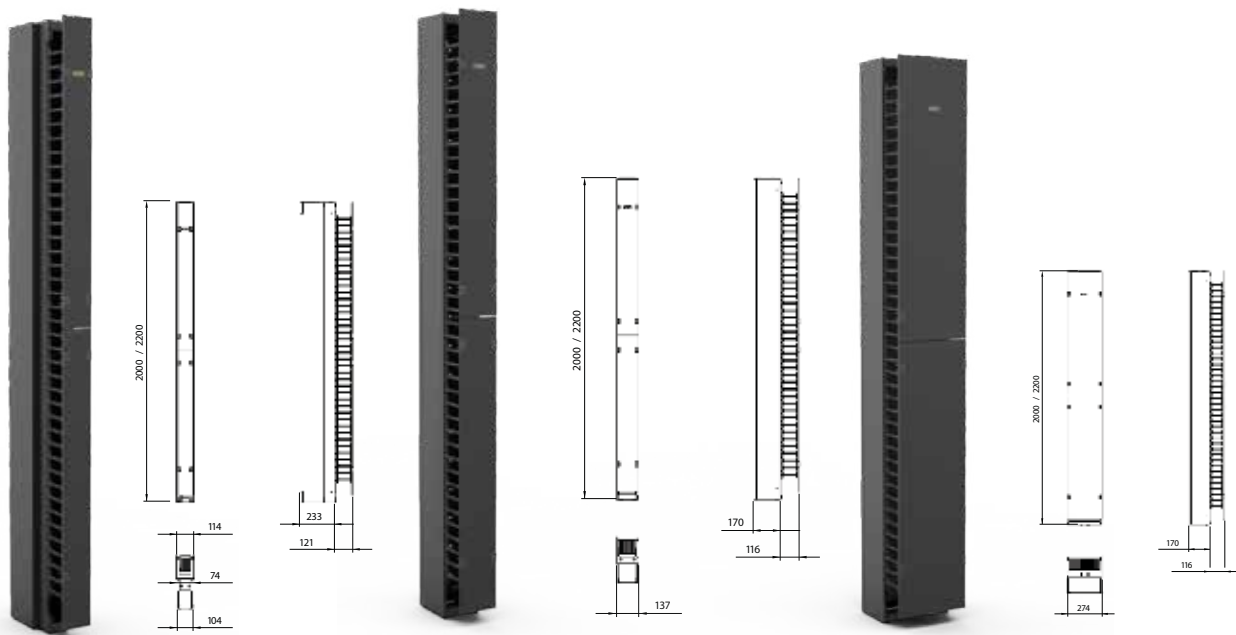
PART NO	PRODUCT DESCRIPTION	HU	WxDxH (mm)
58307	R3 42-S Open two-post rack with 19" front	42HE	526x555-855x2000
58308	R3 47-S Open two-post rack with 19" front	47HE	526x555-855x2200



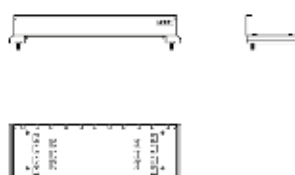
RCT

VERTICAL CABLE TRAY

Key parts of the system are the cable trays in different widths, which enables easy and efficient handling.



PART NO	PRODUCT DESCRIPTION	HU	WxDxH (mm)
58311	RCT 74-42-S Vertical cable tray, width 74 mm	42HE	74 (114) x354x2000
58312	RCT 74-47-S Vertical cable tray, width 74 mm	47HE	74 (114) x354x2200
58314	RCT 137-42-S Vertical cable tray, width 137 mm	42HE	137x286x2000
58315	RCT 137-47-S Vertical cable tray, width 137 mm	47HE	137x286x2200
58317	RCT 274-42-S Vertical cable tray, width 274 mm	42HE	274x286x2000
58318	RCT 274-47-S Vertical cable tray, width 274 mm	47HE	274x286x2200

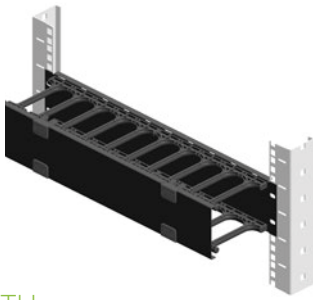


58319	RCT Top-S Cable tray to be fitted on top of rack	-	526x164x88
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CT

CABLE TRAY SYSTEM

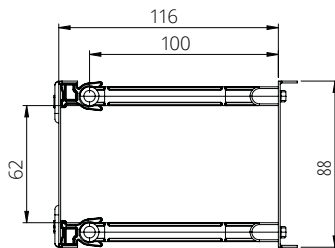
Organize efficiently and handle large volumes of cables in a high quality cable management system.



CTH

Cable tray horizontal. 19" 2HU cable tray using the same components as CT1.

- Metal tray with plastic fingers and metal lid.
- 2HU, 19" fixing.
- Lid is hinged both top and bottom and can be removed completely.



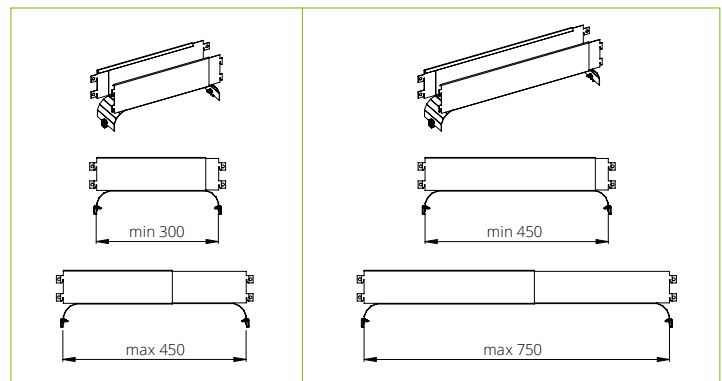
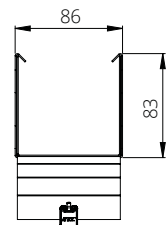
Hinged lid + plastic fingers	
Middle	
Back	



CTD S/L

Cable tray depth. For supporting cables in the depth direction. Either between two CT1:s or between one CT1 and a 19" profile.

- Stepless adjustable depth.
- Available in two sizes.
- CTD S, 300–450 mm depth.
- CTD L, 450–750 mm depth.
- Tool-free fixing in CT1.
- Cage nut required for fixing in 19" profile (not included).
- Bend radius control built in.

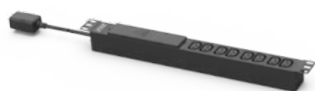


PART NO	PRODUCT DESCRIPTION	HU	WxDxH (mm)
56875	CT1 42 Cable Tray Vertical Premium 2000 mm F1, 1 pcs	42HE	88 x 166 x 1777
56876	CT1 47 Cable Tray Vertical Premium 2200 mm F1, 1 pcs	47HE	88 x 166 x 1998
56881	CT3 42 Cable Tray Vertical Standard 2000 mm F1, Pair	42HE	75 x 165 x 1777
56882	CT3 47 Cable Tray Vertical Standard 2200 mm F1, Pair	47HE	75 x 165 x 1998
56886	CT5 42 Cable Guide Vertical Basic without tray 2000 mm F1, Pair	42HE	13 x 151 x 1777
56887	CT5 47 Cable Guide Vertical Basic without tray 2200 mm F1, Pair	47HE	13 x 151 x 1998
56891	CTH Cable tray horizontal. 19" 2HU Metal tray with plastic fingers	2HE	482 x 126 x 88
56896	CTD S Cable tray 300–450 mm depth	-	86 x 300 x 132
56897	CTD L Cable tray 450–750 mm depth	-	86 x 450 x 132
56546	KHV X1-S Vertical cable holder for cable management	-	100 x 12 x 2100

PDU

RANGE AND ACCESSORIES

EPI G2 RELIABLE POWER DISTRIBUTION UNITS EPI G2 is a range of PDU:s that can be used alone as reliable power distribution unit without any monitoring functionality. The PDU can be fitted with a monitoring module (EPI MM G2) for local and remote monitoring through TCP/IP or ampere module (EPI AM G2) for local ampere reading.



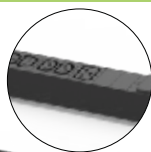
EPI 8 16A G2 • IN: C20, 16A OUT: 8xC13



EPI MM 1/3 G2 • Monitoring Module for 1 phase or 3 phase EPI G2 PDU:s



EPI 24+6 16A G2 • IN: IEC60309, 16A OUT: 24xC13, 6xC19



EPI AM 1/3 G2 • Ampere Module for 1 phase or 3 phase EPI G2 PDU:s



EPI 24+6 32A G2 • IN: IEC60309, 32A OUT: 24xC13, 6xC19



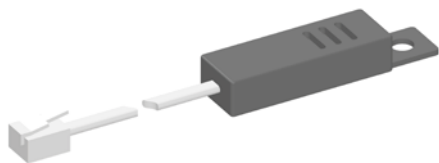
EPI 24+6 3X16A G2 • IN: IEC60309, 3x16A OUT: 24xC13, 6xC19



EPI 42+4 32A G2 • IN: IEC60309, 32A OUT: 42xC13, 4xC1



PART NO	PRODUCT DESCRIPTION	LENGTH (MM)
54361	EPI 8 16A G2 IN: C 20, 16A O UT: 8 xC13	483
54362	EPI 24+6 16A G2 IN: IEC60309, 16A OUT: 24xC13, 6xC19	1328
54363	EPI 24+6 32A G2 IN: IEC60309, 32A OUT: 24xC13, 6xC19	1453
54364	EPI 24+6 3x16A G2 IN: IEC60309, 3x16A OUT: 24xC13, 6xC19	1378
54365	EPI 24+6 3x32A G2 IN: IEC60309, 3x32A OUT: 24xC13, 6xC19	-
54366	EPI MM 1 G2 Monitoring Module for 1 phase EPI G2 PDU:s	-
54367	EPI MM 3 G2 Monitoring Module for 3 phase EPI G2 PDU:s	-



EPSE 1

Temp/Humidity sensor with 2m cable. To be fitted in EPI MM G2.

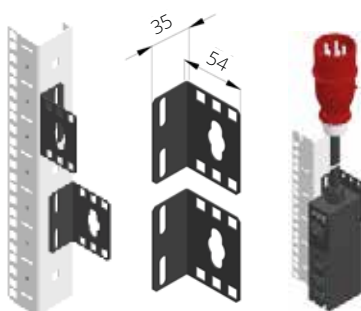


EPB C19-SCHUKO/FRENCH

Conversion cable from C19 to Schuko/French plug. To be fitted at C20 plug.

PART NO	PRODUCT DESCRIPTION	LENGTH (MM)
54490	EPSE 1 Temp/Humidity sensor with 2m cable. To be fitted in EPI MM G2	-
54489	EPB C19-C14 Conversion cable 0,2mtr	200

MOUNTING BRACKET FOR FITTING ACCESSORIES



EPVB X1-S

Mounting bracket for fitting accessories on the side of the 19" profiles. Delivered as a pair.



EPMB-2 X1-S

Mounting bracket for fixing accessories vertically along the corner post. Delivered as a pair.

PART NO	PRODUCT DESCRIPTION
54499	EPMB X1-S Mounting bracket Cornerpost, 1 PDU, Pair
56566	EPVB X1-S Vertical fixing for 19" profiles, Pair



FIBER RACEWAY

Fiber Raceway is designed to support and provide perfect routes for fibre network cabling. It is designed as a tool less construction for ease of installation. Fiber Raceway is robust, yet flexible with a number of components to complement the most demanding designs for significant amounts of network fiber connectivity. A range of sizes are available to meet all needs and designs, the bright yellow colour structure makes it easy to identify routes within the most complex of environments.

FIBER RACEWAY TRAPEZE HANGER KIT

Supports fiber raceway from the ceiling or from the C channel bar.

PART NO	PRODUCT DESCRIPTION
AFLA03061	AFL HS Trapeze Hanger Kit, Max H=1m (for W=360mm Fibre Raceway)



STRAIGHT FIBER RACEWAY

Used to carry the cables horizontally throughout the system. Accepts cover and fittings.

PART NO	PRODUCT DESCRIPTION	LENGTH (m)	WxDxH (mm)
AFLR01011	AFL HS Fiber Raceway Straight PVC with Cover Yellow	2	360x100
AFLR01021	AFL HS Fiber Raceway Straight PVC with Cover Yellow	2	240x100
AFLR01031	AFL HS Fiber Raceway Straight PVC with Cover Yellow	2	120x100
AFLR01041	AFL HS Fiber Raceway Straight PVC with Cover Yellow	2	60x60



"45° DOWN ELBOW FIBER RACEWAY

Attaches to 4"x15", 4"x10", 4"x5", or 2.36"x2.36" channel and/or fitting to create a 45° downward angle from a straight horizontal run.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR09011	AFL HS Fibre Raceway Down 45°C Elbow PVC with Cover Yellow	360x100
AFLR09021	AFL HS Fibre Raceway Down 45°C Elbow PVC with Cover Yellow	240x100
AFLR09031	AFL HS Fibre Raceway Down 45°C Elbow PVC with Cover Yellow	120x100
AFLR09041	AFL HS Fibre Raceway Down 90°C Elbow PVC with Cover Yellow	60x60



VERTICAL CUTTING IN TEE FIBER RACEWAY

Attaches to 4"x10" or 4"x5" channel to create a 90° horizontal elbow from anywhere on a straight horizontal run.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR04021	AFL HS Fibre raceway Vertical TEE PVC Yellow	240->120x100
AFLR05021	AFL HS Fibre raceway Cutting In TEE PVC Yellow	240x100
AFLR05051	AFL HS Fibre raceway Cutting In TEE PVC Yellow	120x100





FIBRE RACEWAY COUPLER

Quickly joins two sections of channel and/or fittings. Tighten and release bolts by fingers, absolutely toolless.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR02011	AFL HS Fibre Raceway Coupler PVC Yellow	360x100
AFLR02021	AFL HS Fibre Raceway Coupler PVC Yellow	240x100
AFLR02031	AFL HS Fibre Raceway Coupler PVC Yellow	120x100
AFLR02041	AFL HS Fibre Raceway Coupler PVC Yellow	60x60



CROSS FITTING FIBER RACEWAY

Attaches to 4"x15", 4"x10", 4"x5", or 2.36"x2.36" channel and/or fittings to create a horizontal four way cross intersection with two 4"x15", 4"x10", 4"x5", or 2.36"x2.36" exits, respectively.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR06011	AFL HS Fiber Raceway Cross fitting 360 x 100mm PVC with Cover Connector Yellow	360x100
AFLR06021	AFL HS Fiber Raceway Cross fitting 240 x 100mm PVC with Cover Connector Yellow	240x100
AFLR06031	AFL HS Fiber Raceway Cross fitting 120 x 100mm PVC with Cover Connector Yellow	120x100
AFLR06041	AFL HS Fiber Raceway Cross fitting 60 x 60mm PVC with Cover Connector Yellow	60x60
AFLR0602031	AFL HS Fiber Raceway Cross fitting 240 -> 120mm PVC with Cover Connector Yellow	240->120



HORIZONTAL ELBOW FIBER RACEWAY

Attaches to 4"x15", 4"x10", 4"x5", or 2.36"x2.36" channel and/or fittings to create a 90° horizontal elbow from a straight horizontal run.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR07011	AFL HS Fibre Raceway Horizontal 90°C Elbow PVC with Cover Yellow	360x100
AFLR07021	AFL HS Fibre Raceway Horizontal 90°C Elbow PVC with Cover Yellow	240x100
AFLR07031	AFL HS Fibre Raceway Horizontal 90°C Elbow PVC with Cover Yellow	120x100
AFLR07041	AFL HS Fibre Raceway Horizontal 90°C Elbow PVC with Cover Yellow	60x60



45° UP ELBOW FIBER RACEWAY

Attaches to 4"x15", 4"x10", 4"x5", or 2.36"x2.36" channel and/or fitting to create a 45° upward angle from a straight horizontal run. Used with 45° Down Elbow.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR07011	AFL HS Fibre Raceway Horizontal 90°C Elbow 360 x 100mm PVC with Cover Yellow	360x100
AFLR07021	AFL HS Fibre Raceway Horizontal 90°C Elbow 240 x 100mm PVC with Cover Yellow	240x100
AFLR07031	AFL HS Fibre Raceway Horizontal 90°C Elbow 120 x 100mm PVC with Cover Yellow	120x100
AFLR07041	AFL HS Fibre Raceway Horizontal 90°C Elbow 60 x 60mm PVC with Cover Yellow	60x60



HORIZONTAL TEE FIBER RACEWAY

Attaches to 4"x15", 4"x10", 4"x5", or 2.36"x2.36" channel and/or fittings to create a 90° horizontal branch from a straight horizontal run.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR08011	AFL HS Fibre Raceway Up 45°C Elbow PVC with Cover Yellow	360x100
AFLR08021	AFL HS Fibre Raceway Up 45°C Elbow PVC with Cover Yellow	240x100
AFLR08031	AFL HS Fibre Raceway Up 45°C Elbow PVC with Cover Yellow	120x100
AFLR08041	AFL HS Fibre Raceway Up 90°C Elbow PVC with Cover Yellow	60x60
AFLR0302031	AFL HS Fibre Raceway Horizontal TEE 240->120 x 100mm PVC with Cover Connector Yellow	



FIBER RACEWAY ADAPTOR

Attaches any 4"x15", fitting or channel to any 4"x10" fitting or channel, or any 4"x10" to any 4"x5" fitting or channel.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR1001021	AFL HS Fibre Raceway Adaptor PVC with Cover Yellow	360->240x100
AFLR1002031	AFL HS Fibre Raceway Adaptor PVC with Cover Yellow	240->120x100



DOWNSPOUT KIT FIBER RACEWAY

Assembles onto 4"x5", 4"x10", or 4"x15" channel, spilling over the side into a 90mm or 130mm movable exit with or without corrugated pipe.

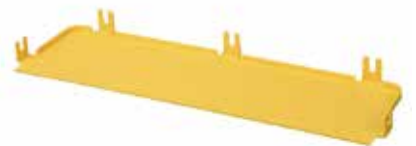
PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLA01011	AFL HS Fiber Raceway Downspout kit PVC Yellow	90x143
AFLA01031	AFL HS Fiber Raceway Downspout kit PVC Yellow	130x153
AFLA01001-P	AFL HS Corrugated pipe PVC Kit, suit for Downspout	
AFLA02011	AFL HS Fibre Raceway Trumpet Downspout kit ABS Yellow	120x200



END CAP FIBER RACEWAY

Used for closing off open ends of the channel or fittings.

PART NO	PRODUCT DESCRIPTION	WxDxH (mm)
AFLR11011	AFL HS Fiber Raceway End Cap PVC Yellow	360x100
AFLR11021	AFL HS Fiber Raceway End Cap PVC Yellow	240x100
AFLR11031	AFL HS Fiber Raceway End Cap PVC Yellow	120x100
AFLR11041	AFL HS Fiber Raceway End Cap PVC Yellow	60x60



FIBRE RACEWAY CABINET TOP SUPPORT KIT (FIXED & ADJUSTABLE)

Used to carry the cables horizontally throughout the system. Accepts cover and fittings.

PART NO	PRODUCT DESCRIPTION	W (mm)
AFLA03041	Fixed Cabinet Top Support Kit for Fiber Raceway	240
AFLA03021	Adjustable Cabinet Top Support Kit for Fiber Raceway	120



FIBER RACEWAY LADDER RACK SIDE SUPPORT KIT

Used to support the 4"x5" or 4"x10" system by spanning two existing threaded rod drops. Can be installed from above or below.

PART NO	PRODUCT DESCRIPTION	W (mm)
AFLA03011	Ladder Rack Side Support Kit for Fiber Raceway	240



PRODUCTS FOR TEST, INSPECTION AND CLEANING

Fiber optic connector end-face contamination is a leading cause of fiber failures. Dirt and contaminants cause insertion loss and back-reflection that inhibit optical transmission and causes havoc with transceivers.

FLUKE NETWORKS CERTIFIBER PRO OPTICAL LOSS TEST SET

Improves the efficiency of fiber optics certification. The Taptive user interface simplifies set-up, eliminates errors and speeds troubleshooting. A set reference wizard ensures correct reference setting and eliminates negative loss errors. Built on the future-ready Versiv platform, CertiFiber Pro Optical Loss Test Set (OLTS) provides merged Tier 1 (Basic) / Tier 2 (Extended) testing and reporting when paired with OptiFiber Pro module.



PART NO	PRODUCT DESCRIPTION
CFP2-100-QI	Fluke CertiFiber Pro Quad OLTS V2 W/WIFI double-ended inspection
OFP-Q-ADD	Fluke OptiFiber Pro Quad OTDR Add-On kit MM/SM modul inkl launch SC/LC 50 & 9/125

FLUKE NETWORKS FI-3000 FIBERINSPECTOR ULTRA

Offers an extensive feature set that makes testing MPO fiber trunks, cassettes, array cables easy and efficient. The multiple camera design provides an instant Live View with simple touchscreen gestures to move from full trunk to individual endfaces in real time.



PART NO	PRODUCT DESCRIPTION
FI-3000	Fluke FiberInspector PRO MPO 12/24 UPC/APC Inspection Video Mikroskop kit

AFL FLEXSCAN OTDR

An all-in-one solution for detecting, identifying, locating and resolving single-mode and multimode optical network issues, It is designed for both novice and expert technicians working in a range of environments from data centers to fiber-to-the-home, as well as local and wide area networks.



PART NO	PRODUCT DESCRIPTION
FlexScan	AFL FlexScan OTDR Single, dual or triple wavelength single- and multimode

AFL FOCIS

Makes connector inspection simple, fast, and convenient. FOCIS is a compact self-contained inspection probe that captures the end-face image in less than two seconds. One button provides auto-focusing, centering and pass/fail analysis at the connector and individual fiber level. It can complete a 24-fiber MPO inspection task in less than 15 seconds. Results can be easily shared via USB, WiFi and Bluetooth®.



PART NO	PRODUCT DESCRIPTION
FOCIS	AFL FOCIS Fiber Optic Connector Inspection System

STICKLERS™

Offers “click-to-clean” (also called “push-to-clean”) tools for SC, LC, MPO and all the other popular fiber optic connector configurations. These high-quality products have the most gentle activation on the market and the longest “throw” of cleaning.



PART NO	PRODUCT DESCRIPTION
MCC-CCWRC	Sticklers CleanClicker Cassette End Face Cleaner 500+ Cleans LC,SC
MCC-CCU125	Sticklers CleanClicker LC 750+ click
MCC-CCMPO	Sticklers CleanClicker MPO/MTP Male Pin/Female Unpin 600+ click



PART NO	PRODUCT DESCRIPTION
MCC-S12	Sticklers CleanStixx LC 1.25mm Fiber Optic Swabs
MCC-XMT	Sticklers CleanStixx MPO/MTP Fiber Optic Swabs
MCC-WFW	Sticklers CleanWipes plastburk 90st/fp
MCC-POC03M	Sticklers Fiber Cleaning Fluid 85ml

ONE-CLICK CLEANER

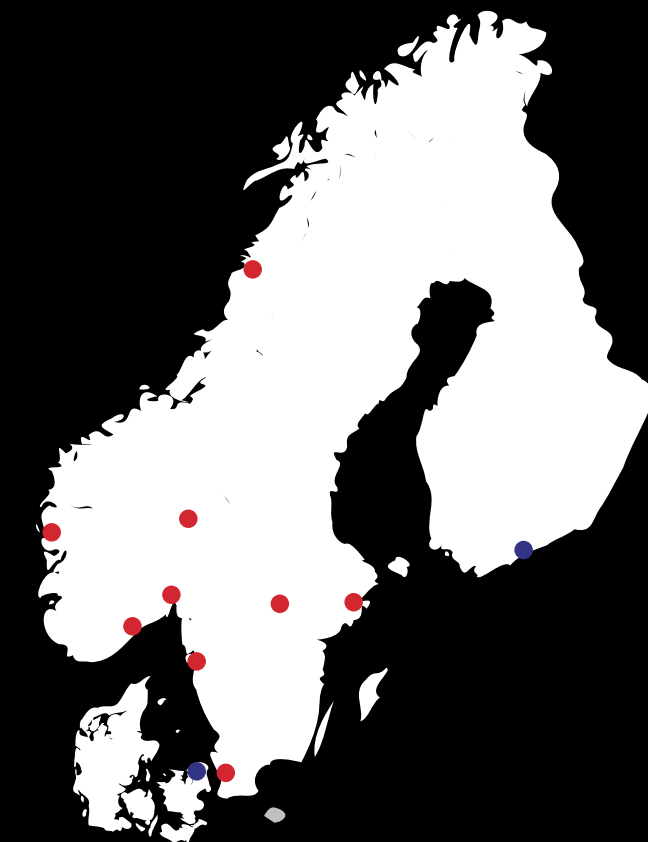
The One-Click Cleaner is an easy-to-use option for cleaning connectors on jumpers and in adapters. Simply insert the One-Click Cleaner into an adapter and push until an audible “click” is heard. The One-Click Cleaner uses the mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively.



PART NO	PRODUCT DESCRIPTION
8500-05-0002MZ	One-Click Cleaner LC 500 cleans
8500-05-0008MZ	One-Click Cleaner LC Duplex 500 cleans x 2
8500-05-0030MZ	One-Click cleaner MPO/MTP 500 cleans
8500-05-0010MZ	One-Click cleaner Mini LC 500 cleans

NOTES

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- Sales Office
- Sales Representatives

To be able to offer fast deliveries with high availability we are represented with offices and subsidiaries in Stockholm, Malmö, Gothenburg and Örebro and in Oslo, Sandefjord, Bergen, Hamar and Mosjøen. Today the number of employees within Alcadon is just over 70 people. We also have sales representatives in Copenhagen and Helsinki.

The Swedish and Norwegian offices deliver to whole Scandinavia. All offices have their own warehouses and receive daily deliveries from our central warehouses in Stockholm and Sandefjord.



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