



High-density solutions for data centres

Catalogue 2017

Network Connectivity & Cable Management

schneider-electric.com

Life Is On

Schneider
Electric

The overall performance relies on the details



- Fibre optic solutions
- S-One connectors
- CL-MX cables
- Flat HD panels
- Overhead patching frame
- Patching and Server enclosures
- Defem mesh trays

Contents

Presentation	2
HD patching area	6
HD server area	9
HD cable support	11
Intelligence solutions for data centres	14
Fibre optic solution	29
Copper solution	63
Enclosures	81
Cable support	89
Index	102



How to achieve high density with reliable end-to-end connectivity



Great news for installers! When the entire solution comes from the same supplier, you can rely on 100 % integration.

A data centre is a significant investment that needs to be balanced with current and future needs, as well as with cost efficiency and minimized energy consumption.

An optimized, thorough analysis of the requirements in terms of layout, density and capacity is vital. Schneider Electric offers all the knowledge and products needed for presenting a complete end-to-end solution, with accurate, easily maintained and future-proof operation as the result. A fact that is beneficial for every player involved.



As every installer, you know the pleasure of working with top-quality equipment, so that your effort can be put into reconfiguring and expanding the installation, rather than troubleshooting and repairing. By focusing on a comprehensive, fully integrable product range, we can strengthen our research and development – in this way ensuring the latest technical standards. This matches our goal throughout our 170-year history: to provide the most relevant, reliable and high-performing solutions on the market.

Our data centre solutions are complete, covering products from port to enclosure, to room to building. We offer end-to-end integration with safe and seamless network connectivity. Or in other words – outstanding performance and efficiency in every stage.



Reap the benefits of high density

2000

connectors per m²
of floor space

- Most cost-efficient use of the facility
- Major savings on installation time
- Superior reliability and performance
- Future-proof investment

The keystones for maximising ROI and performance

The Schneider Electric High Density offer for data centres includes products for patching areas and server areas, along with an extensive cable support range. Together these form an infrastructure solution that brings out full-scale effect of the space, with continuously high performance and more money saved as the result.

> HD patching area

A network set-up never gets better than the way it was planned from the start. This is why the Actassi system includes everything from enclosures and patch panels, to cables and connectors. All our systems and products are easily integrated to preserve maximum accessibility.



> HD server area

The data traffic worldwide is constantly increasing, which really puts the installation to the test. Our High Density solution for data centres offers exceptional qualities for energy efficiency – cooling equipment concentrated to critical areas saves space and effort, making sure the server area can handle the requirements of today, tomorrow and the future to come.



> HD cable support

A powerful data centre with great capacity will not perform unless supported by an effective infrastructure for distributing the power and network throughout the building. With our comprehensive range of cable support solutions, the cable management and maintenance can be carried out swiftly and easily.



> Catalogue

> High-density solutions for data centres



High Density means:

Energy efficiency thanks to concentrated cooling.
Reduced need of costly space.

HD patching area

Faster installation all the way, from connectors to panels

When working with complex systems and advanced technical solutions, any installer appreciates top quality and best performance in every detail. Schneider Electric's enclosures, connectors, cables and panels speed up each task. In other words, high density could not be achieved in any faster way.



Swift integration

Effective installation personified. By constructing a complete system, we have made sure that there are no incompatible differences between the components.

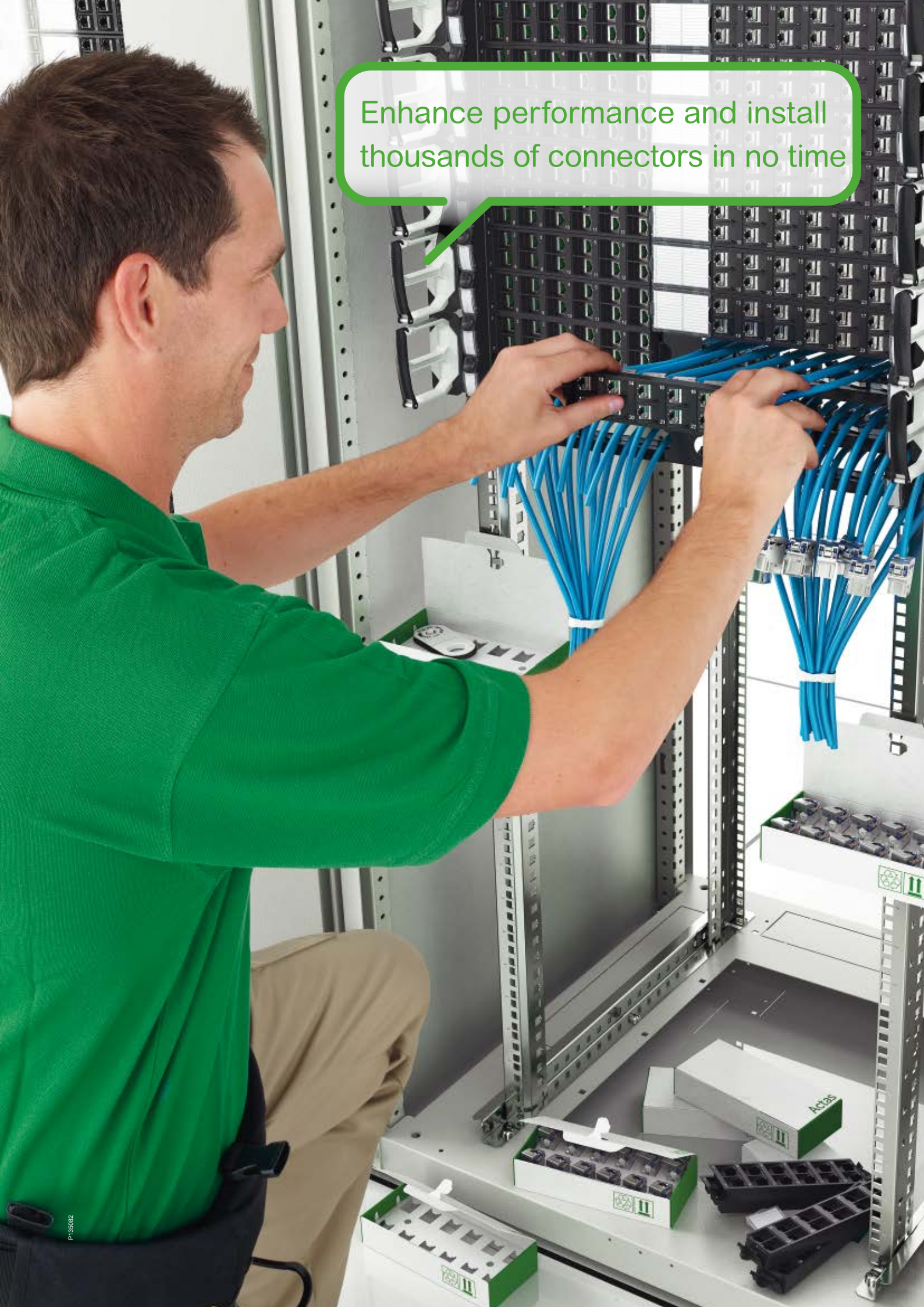


Get time on your side

Now it is time to put an end to unidentified cords and cables, confusion and time-wasting unravelling of cable skeins. The installations are securely kept in the sturdy 19" VDA enclosure, allowing well-organised fixing and fastening of all components. In the ingenious 19" panel the connectors are placed at an angle and the cords are guided to the side. This unique design makes the installation nice and tidy while preventing

the bend radius from being exceeded. Fast and comfortable for the installer. To speed up work even more, there are a number of other clever components that will make it easier for you to quickly configure your installation – the Actassi S-One connector, the Actassi CL-MX cable and the Actassi Iris pre-terminated optical cabling system, to name a few. Find out more about all the advantages further on.

Enhance performance and install thousands of connectors in no time



The spacious work environment lets me work faster and get even more jobs done!



HD server area

Ensure future-proof HD capacity

Now you can truly optimise the efficiency of your HD data centre. Since high-density zones can be deployed anywhere, extensions, new configuration and maintenance is more manageable than ever before. Benefit from significantly improved visibility and control of the entire solution – ideal for very dense enterprise and flexible colocation data centres.



The Actassi Multimode fibre optic patchcord has high crush resistance, contains no halogen and is compliant with all the main IEC standards for low smoke fire retardance.



Let the air flow and put an end to inefficient cooling

The new Actassi overhead patching frame is the perfect solution for dealing with technical constraints in the data centre, such as overheating and space scarcity.

One of the major issues you have to deal with is the cooling. Large HD data centre solutions generate a considerable amount of heat that may cause costly unplanned downtime, if not taken care of. The InfraStruXure HD provides two ways of supplying effective cooling: The InfraStruxure HD overlay, which allows you to

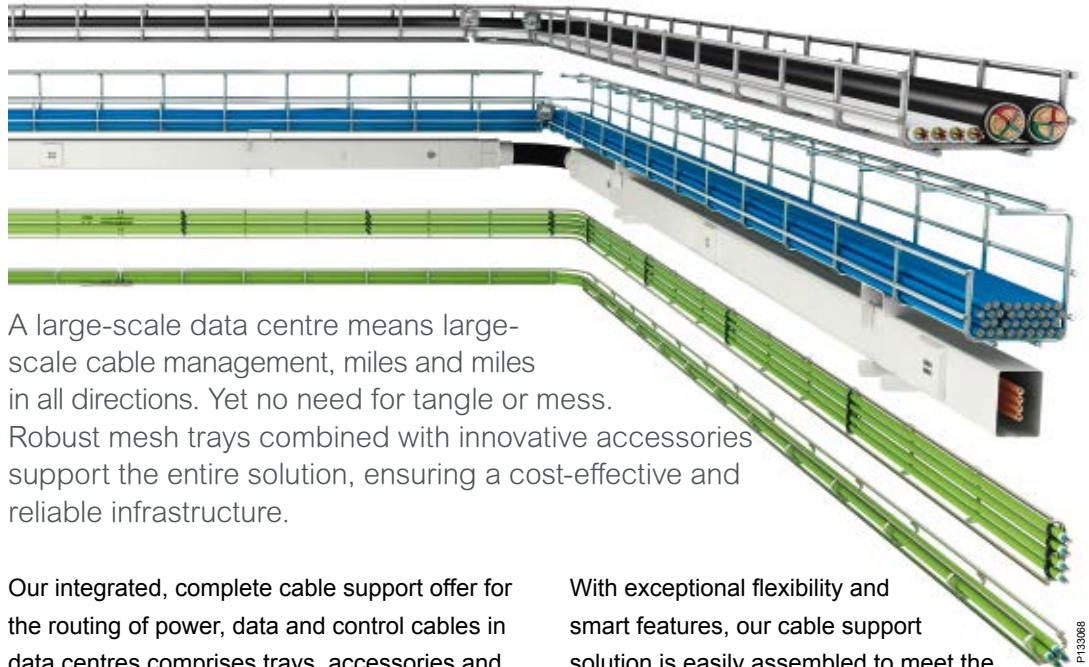
identify the critical areas in your data centre and manage them on the spot. Or the Entirely InfraStruXure HD, for a more comprehensive solution with system-wide visibility and still plenty of room to grow.

Either way, you can start by putting the basic HD framework in place and making the complete data centre solution flexible and ready for future changes. By being well prepared, it is easy to scale up to a higher density when needed.



HD cable support

Impressive capacity paired with infinite opportunities

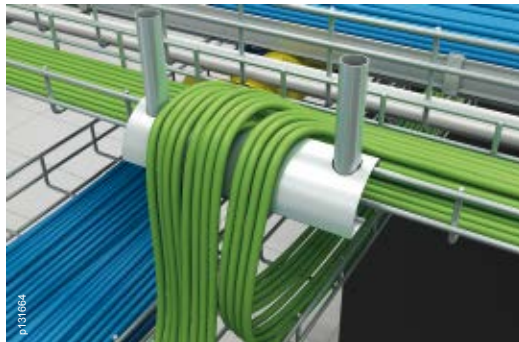


A large-scale data centre means large-scale cable management, miles and miles in all directions. Yet no need for tangle or mess. Robust mesh trays combined with innovative accessories support the entire solution, ensuring a cost-effective and reliable infrastructure.

Our integrated, complete cable support offer for the routing of power, data and control cables in data centres comprises trays, accessories and support systems.

With exceptional flexibility and smart features, our cable support solution is easily assembled to meet the needs of a comprehensive, high-density data centre.

P133068

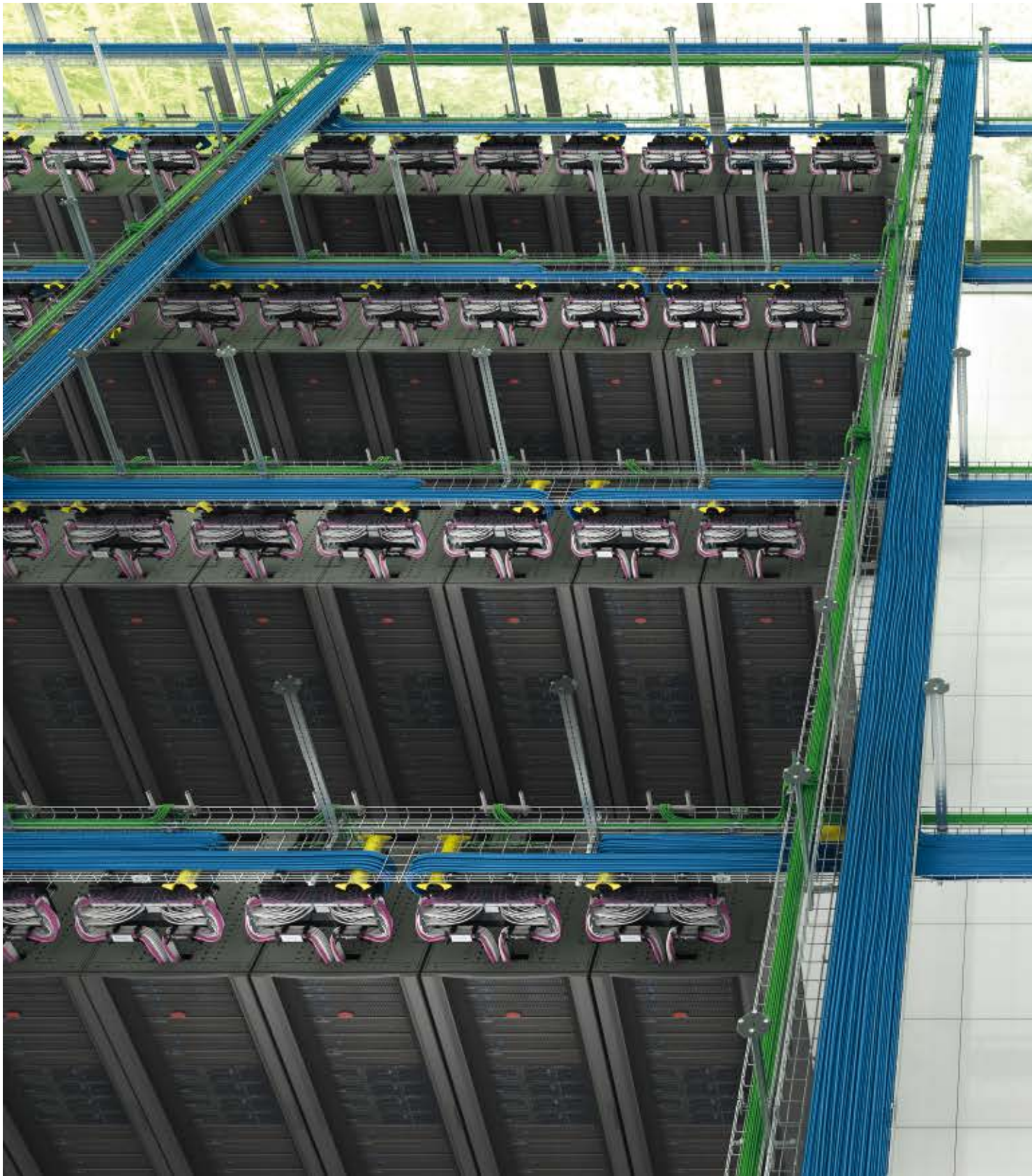


Radius limiters for the protection of delicate cables

Fibre cables are quite sensitive and require gentle handling. The radius limiters enable a protective and smooth distribution, preventing the cables from being bent at a too sharp angle.



The plane separation plate can be mounted continuously both on length material and in bends. Easy to bend by hand – no tools are needed.



Count on improved efficiency and higher ROI



Actassi enhances the network performance in data centres.

When looking at the complete, high density data centre solution, you know that the investment has and will continue to pay off.

The system is ready to take on enormous amounts of data traffic while offering great conditions for extensions and maintenance. Let's zoom in on the details that make the whole picture.

Actassi ON Digital Connectivity Management



Optimising resources and saving operational costs

See dedicated Actassi ON catalogue LSB03028

For EMEAS perimeter

Actassi ON is based on a hardware and software platform, providing intelligent planning, surveillance and managed MAC (Move, Add, Change) operations. The detecting and alerting system ensures that any unexpected issues are taken care of instantly, before causing major damage.



Major OPEX savings

- Have real-time overview of the entire patching field.
- Be alerted at the very moment an unexpected operation occurs.
- Guide field operators to avoid human mistakes.
- Gain efficiency by eliminating idle ports.
- Reduce downtime.
- Make quick replies on user demands.
- Support updated documentation and flexibility in modifications.
- Prepare your critical installations for meeting upcoming user requests.

RFID - exact detection of the entire link

Get in control by **100%**

- Each cord has a unique RFID tag
- Eliminate bad connections
- Enhance service levels



Disconnected connection signalled by LED and sent to PC

Make the most of network reliability and resource efficiency



Refer to the Actassi On catalogue for further information LSB03028



Actassi fibre optic solutions

Network Connectivity solutions are key in your data centre to answer your environment constraints. Indeed you have to deal space optimization, MACs, high bandwidth requirements for your active and passive components, security, and CAPEX reduction. In that direction, from Standard Building to Data centre applications, Schneider Electric introduces complete Fibre Optic solutions to cover your needs at all levels.



Schneider Electric introduces complete Fibre Optic solutions to cover your needs at all levels.

Data centre environment evolution and key trends are driving the market

Cloud Computing trends with a significant increase of Big Data volume for the next years

- High bandwidth requirements for computing and core networking applications is growing steadily towards from 10 G to 40 and 100 Gbits
- Higher reliability and security needs: in data centre system downtime cannot be accepted and has to be 100 % under control not to happen

Consolidation, automatization, virtualization of data centres

- Effective optimization of data centre space

• Effective cable management:

Slack management is very important as well as ease airflow to relieve congestion in pathways and spaces

- Capacity planning, Infrastructure management improvements
- Rapid moves, adds and changes (MACs) need to be facilitated

Externalisation with the increase of colocation data centres types

- CAPEX and OPEX reduction Energy

Actassi seamless end-to-end network connectivity



Actassi is a global and scalable network connectivity infrastructure solution for buildings and data centres. It's easy to install, easy to operate and is certified by a third-party independent laboratory at the highest Cat 6_A international standards.

Actassi Standard offer



A complete range of RJ45 connectors, 19" panels, cables and enclosures.

Actassi Specific Data Centre offer



19" flat high-density panels and an innovative overhead patching frame.

Actassi FL-MLink Pre-terminated solution



Pre-terminated fibre optical offer including panels, cassettes and links.


Actassi Iris



An optical cabling system with the highest port density on the market.


Actassi fibre optic solutions for all your needs

**Actassi 19-C
Standard panel**




P111267

**Actassi 19-HD
Fibre panel**




P146840

**Actassi FL-MLink
Pre-terminated
solution**



P140773

Actassi Iris



P131895

Standard & high productivity buildings

**From 1 to 5 racks
10 G ready**

High productivity, buiding, small data centres

**From 1 to 10 racks
10 G ready**

Large buildings, small & medium data centres

**From 5 to 100 racks
10 G, 40 G,
100 G ready**

Large data centres

**> 100 racks
100 G ready**

Data centre type	Small server rooms, Network closet	Server rooms, Network closet, Enterprise, Corporate	Finance, IT, Enterprise Corporate, Colocation, Public sectors	Finance, Colocation sectors
Performance	OM3 / OM4 / OS2			
Density Fibre capacity	19-C -> 48 fibres in 1U	HD -> 72 fibres in 1U HD -> 288 fibres in 4U	Classic -> 96 fibres in 1U MTP -> 576 fibres in 1U	Classic -> 576 fibres in 4U MTP -> 576 fibres in 1U
Connectivity type	-	-	MTP - 12 or 24 fibres	
Key features	<ul style="list-style-type: none"> ■ Standard sliding fibre optic panel ■ Standard fibre cabling ■ Direct termination or fusion splice 	<p>High density, space optimization</p> <ul style="list-style-type: none"> ■ Standard sliding fibre optic panel ■ Standard fibre cabling ■ Direct termination or fusion splice 	<p>High density plus</p> <ul style="list-style-type: none"> ■ 19" panels and pre-connectorized cassettes/links ■ Bend insensitive fibre ■ Options of polarity (straight through, reverse, pair flipped), not compatible with IRIS offer ■ Secured delivery time for projects ■ x3 faster compared to standard installation ■ Project mode 	<p>High density premium</p> <ul style="list-style-type: none"> ■ Technology partnership, high end drawer style integrated ■ Clearcurve fibre ■ Universal polarity, not compatible with Actassi FL-MLink offers ■ 25 % faster MAC's (reversible boots) ■ 35 % faster to install ■ Turnkey solutions energy efficiency, cooling, space optimization

Actassi FL-MLink Pre-terminated solution

EMEAS



Answering to your quick deployment and high reliability need

Actassi Pre-terminated solution is a new Schneider Electric solution for data centres and IT room applications, covering the following requirements:

100 %

pre-assembled and pre-tested in factory.

High density and performance for data centres

- Up to 96 ports in 1U, up to 576 fibres
- MTP connector: MPO technical evolution which guarantees better robustness
- OM3, OM4, OS2, Bend Insensitive, Indoor/Outdoor
- Fan out splitter protections
- Ready to support 10 G, 40 G and 100 G performances
- Fully compliant to following international standards

High security for your network

- Complete plug & play systems
- Pre-equipped cassettes, panels, standard and cassettes all types of links
- Expertise: factory 100 % pre-assembled and 100 % pre-tested
- On demand length to adjust to end user needs

Time secured for installation on site

- Delivery secured
- x3 faster installation compared to standard optic offer: save connection time on site, only deploy links and then reduce human intervention on site

Scalable and adaptable

- Pay as you grow
- Make your data centre evolve according to your needs
- Extensions possible thanks to on demand links

Energy efficient thanks to "Green environment"

- Fibre use
- Reduce up to 90 % of waste on site



Plug & play fibre optic solution.

Actassi Iris optical cabling system



Innovative drawer-style hardware for unbeatable connector access.

Exceptional port density: 576 fibres in a 4U panel.

Corning "Clear Curve" fibres enable tighter cable bends.

Low insertion loss allows flexible network design with multiple interconnections.

The highest port density on the market

For a few years, we have had a thriving partnership with Corning Cable Systems, the global leader in fibre optics technology. A result of our successful cooperation is the Actassi Iris that allows easy upgrade to 100 Gb.



Actassi Iris is our premium fibre optic offer and another top-of-the-line component of our reliable and efficient HD Data Centre Solutions. With the highest port density on the market, the Actassi Iris facilitates installation by enabling faster moves, additions and configurations. Other features like pre-terminated components and innovative drawer-style hardware further improve performance, leading to complete end-to-end network connectivity.



Shuttered modules, operated with one hand – no dust caps needed.

The features that make all the difference

Innovations like these enable faster installations, improved energy efficiency, more reliable operation and a minimum of maintenance. By speeding up each task, you get more jobs done.

3x

Three times faster installation with Actassi CL-MX.

New!

- Patented metallic crossfiller for superior EMC and reduced installation time
- Insulated AWG 23 copper conductors
- Outer sheath in LSZH or LSRZH

3x shielding

- 1 Inner cross
- 2 Outer shielding
- 3 Double outer shielding



The Actassi CL-MX cable – 3 times improved performance

The Actassi CL-MX is a new, innovative and shielded Cat 6_A cable with 3 times faster installation and a superior transfer impedance performance. The secret of the outstanding properties lies in the

patented metallic crossfiller that brings 3x shielding, improved EMC and less cutting operations. To put it short – increased efficiency in all stages.



The fire properties are documented by standardized methods according to IEC 60332-1, 60332-3C, 60754-1 and 60754-2.



The single-foil structure of the crossfiller acts like a triple screen protection with 360° shielding. Yet it is unbeatable when it comes to cutting down on cutting time.





50 %
faster!

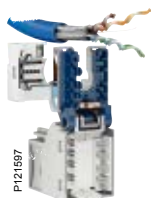
- One-piece design
- Smart bridle providing 360° earthing.
- U-shaped central cable entry.
- Protected IDC.

The Actassi S-One connector – fast and trouble-free

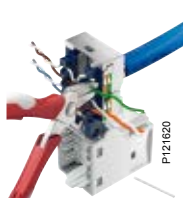


PoE+

The Actassi S-One connector is now certified and fully compliant with the PoE+ standards by Delta, allowing transport of up to 30 W in the data cable.



Ready...



Steady...



Done!



The Actassi One-piece RJ45 connector is tool-less to open and close. Advantages such as the colour coding, smart bridle, U-shaped cable entry and automatic 360° earthing allow you to connect up to 50 % faster. A cutting plier is the

only tool you need. Actassi S -One is designed by Schneider Electric, manufactured in our state-of-the-art factory in Denmark and fully compliant with the latest standard ISO/IEC 11801: 2011 Ed2.2.

P135330



The Actassi flat high-density panel – advantages of working sideways



The panels are equipped with a Quick Fix function for a fast installation.

The new Actassi 19" flat panel with connectors placed at an angle gives a new dimension to high density – the panels can be mounted directly on top of each other, with no need of intermediate guiding panels. 24 ports, clearly marked at both front and rear, offer impressive capacity in a slim space. Just connect the cords from the front and assemble them to the sides through the vertical side ring. Other features are



the removable cable manager at the rear, the panel identification label and the hinged central label holder. Professional look and performance in every detail.



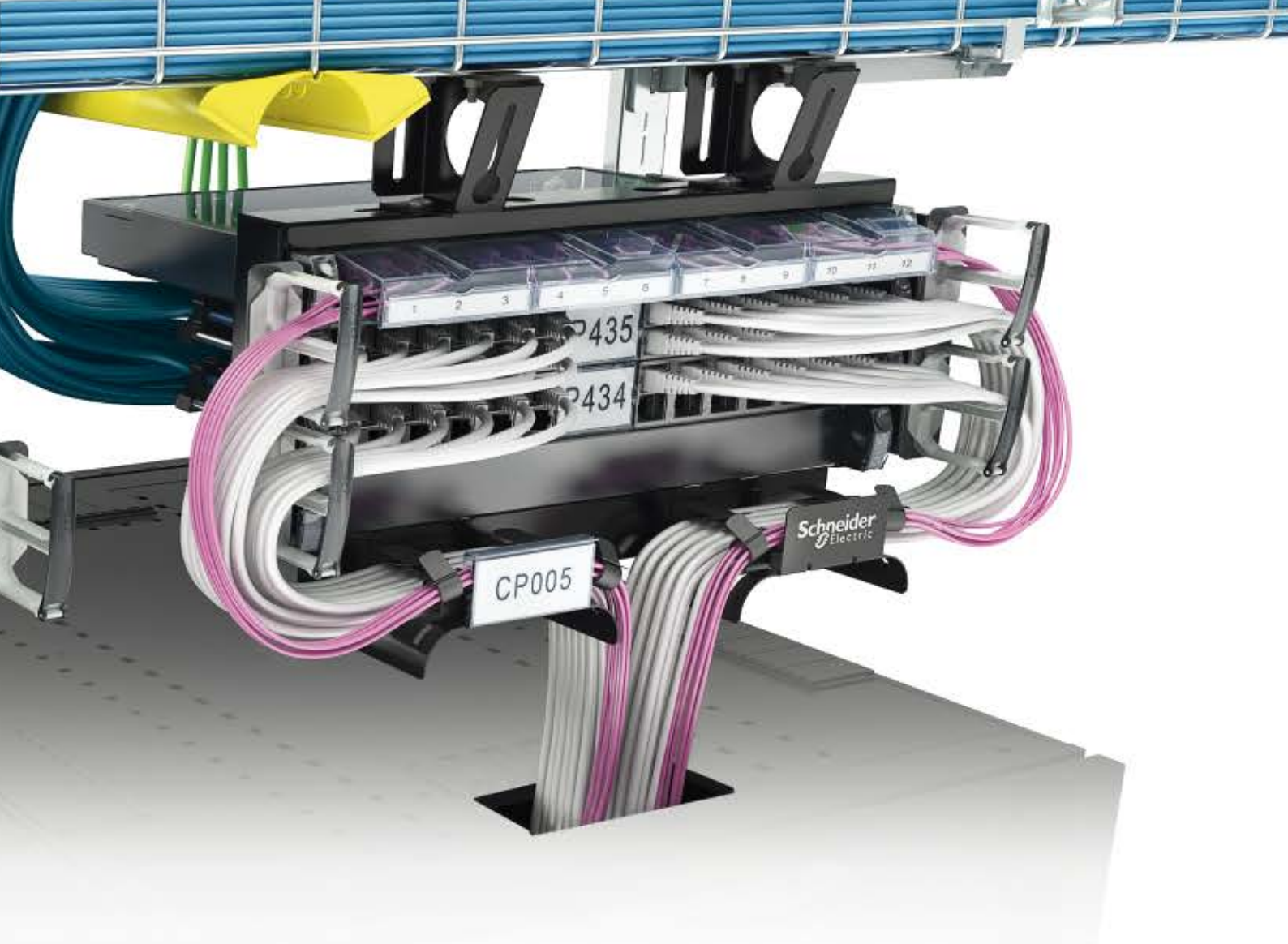
Connectors placed at an angle combined with front access simplifies installation work.



Large identification labels for easy readability from ground level.



The cable manager can be folded or removed. Hooks for cable ties for extra safety.



The Actassi overhead patching frame – increasing cabling density

The Actassi 19" overhead patching frame allows you to use the empty space above the enclosure. Just mount the frame onto the tray, either vertically or in an angle. For mounting on mesh trays, use the special quick tray mounting device. Install patch panels and make the entire enclosure beneath available for server hosting. The patching frame now works as a consolidation point, enabling flexible cabling layout as well as convenient addition of new enclosures and servers.



Robust cord managers for bend radius protection.



Large label for clear visibility from the ground.



For maximum convenience, the brackets enable vertical or angled mounting of the frame.



The Actassi enclosures – high density in a neat package



Complete visibility into the physical infrastructure means minimised risk of errors and costly downtime.

Actassi VDA and VDS enclosures

Tool-less cable management, guiding systems for the panels and knock-down cable entries on the top and bottom make for a fast and easy installation. To speed up the installer's work further, the ingenious architecture offers modules for mounting plain plates and brush entry cables.

Netshelter for the server area

With features like superior door ventilation, central monitoring software for power, cooling and security control, along with scalable UPS solutions, the Netshelter SX provides easier management of the overall server installation.



The VDA patching enclosures have a time-less design in light grey colour and a front door with Securit® glass.



The VDS mixed enclosures have a micro-perforated door for maximum air circulation (above 80 %).



Smart knock down entries for cables and cooling fans.



The Defem data centre mesh trays – infrastructure perfection



There is no need to order parts like bends, raisers and reducers. You can form them easily on site from length material.

Now you don't have to put up with tangled cables and confusing configurations. Our Defem mesh tray range includes all the necessary components for a safe and reliable power and network distribution throughout the building. There is also an

impressive amount of clever accessories, such as brackets, holders, fittings, marking clips, separating plates and radius limiters, making the entire system flexible and enjoyable to work with.



P194661



P194665

The soft drop-offs are specially designed to handle fragile fibre cables.



P194682

Regardless of the application, the Defem system will always provide superior organisational and supportive qualities to the entire solution.



P194651

Clear and distinct marking facilitates maintenance and extensions of the system.

Actassi Flex and iFlex will change the way you manage your data center

With Actassi Flex and iFlex, you can...

- Minimize the risk of system downtime.
- Facilitate efficient Move, Add and Change (MAC) to minimize IT operation/maintenance cost.
- Flexibly adapt the dynamic IT environment with highly scalable solution



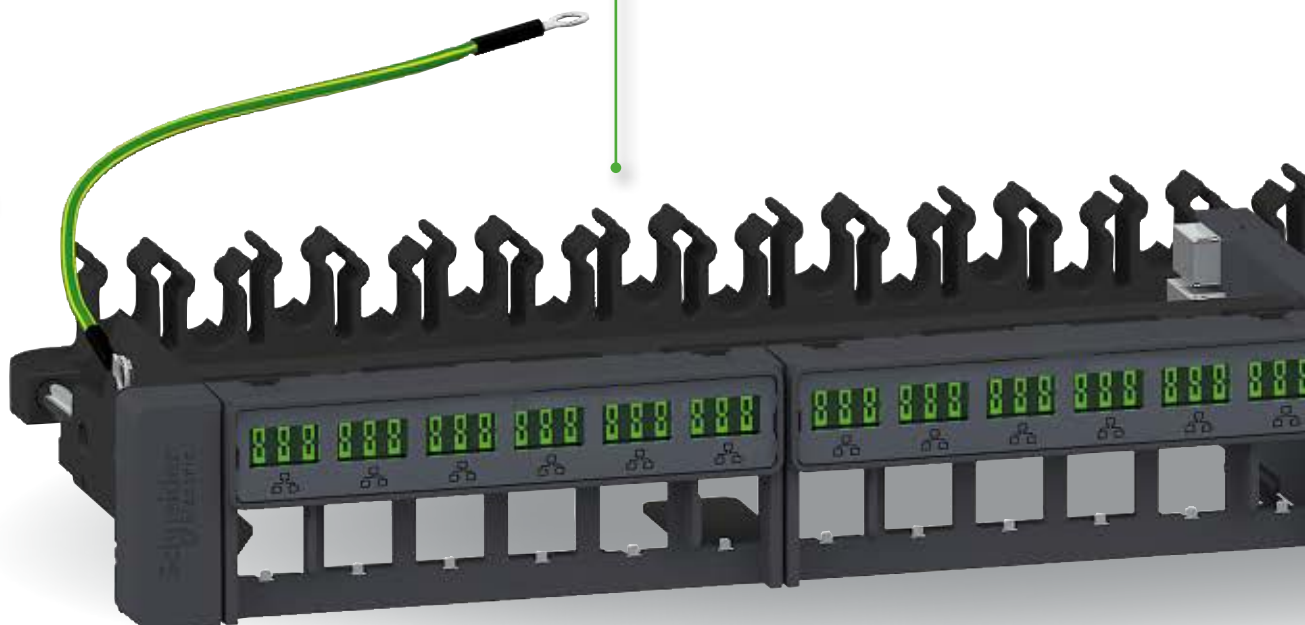
Actassi Flex offers you a wealth of flexibility & scalability

Actassi Flex is a modular platform which allows mix media application in 1U rack space. It perfectly accommodates the challenge of space limitation in IT room & datacenter. With its interchangeable-design mechanism, upgrade from Actassi Flex solution to Actassi iFlex management system is enabled by equipping an upgrade kit.

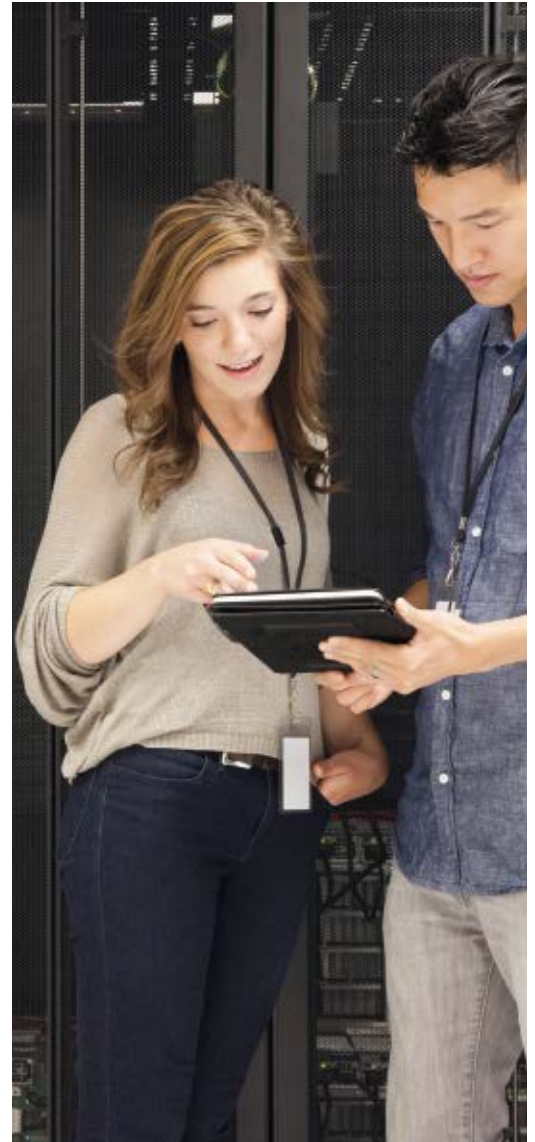
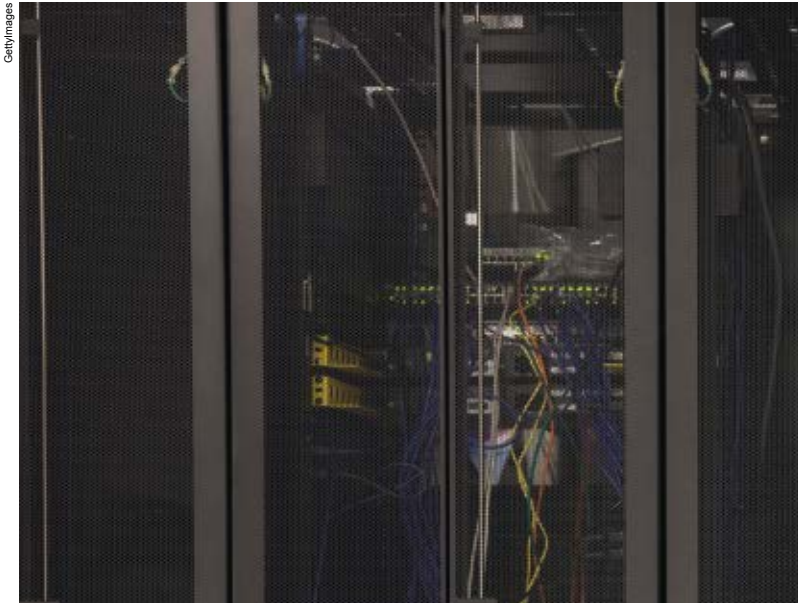


Beyond Identification

On Actassi iFlex panel, each port has a 7-segment digital display and each display is able to show a port ID, a network switch ID and a outlet ID. With the extended information on display, operational fault can be minimized when Move, Add and Change activity takes place.

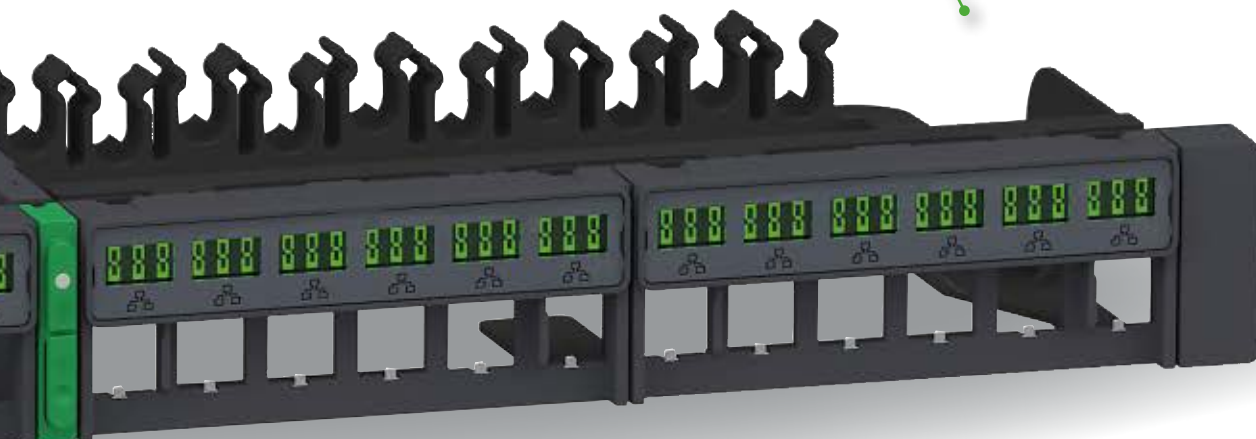


our IT room & data center



A Living Monitoring Tool & Network Database

In Actassi iFlex management environment, each port is being monitored 7 x 24 hours. Any patching activity, plug insert or plug remove, will be recorded in the event log and clearly dated. This real-time information will increase the overall efficiency of network maintenance and trouble shooting. The management software also empowers IT manager to do asset management & provisioning in a simple way.





Actassi fibre optic solution

New Construction Product Regulation CPR Euroclass	30
Fibre optic performances	32
Pre-terminated solution	33
19-HD fibre panel.....	40
FL-C Fibre optic cables	44
FL-C Fibre optic pigtails	46
FL-C Fibre optic patch cords	47
19-HD Fibre panels.....	48
19-C Fibre optic panels	50
Fibre LAN adapters	51
19-C Power panels.....	52
Stago Fibre-Optic Duct	54

New Construction Product Regulation CPR Euroclass

The purpose of this new regulation is to increase security for people and goods inside buildings.

All the communication cables as LAN copper cables or fibre optic permanently installed in buildings sold on the European countries after July 1st 2017 must comply to EN 50575 and new CPR. This new regulation defines a common methodology to evaluate fire performances and ensure the harmonisation of the law at EU level.

All cables will need to be tested, classified and CE marked per the new CPR mandate. Indication of Euroclass level will be mandatory on the packaging label, a declaration of performance is compulsory for each product, available on SE.com website.

Schneider Electric has a comprehensive range of cables available to support these requirements

Euroclass classification



Current test

Flame spread

New requirements

- Flame spread
- Heat release
- Smoke production
- Flaming droplets
- Acidity

Euroclass
is based on

5

tests

Make the good choice...

Make your choice and advise customers according to:

- Material standard
- Typology of the building
- Typology of people inside the building
- Accessibility of the building
- Cost of the goods to be replaced (check the typology of the installation)

Schneider Electric recommendations

- Promote only Cables and optic fibres **D_{CA}** and **C_{CA}**
- Promote **C_{CA}** Euroclass when risk is high (hospital, high building...)

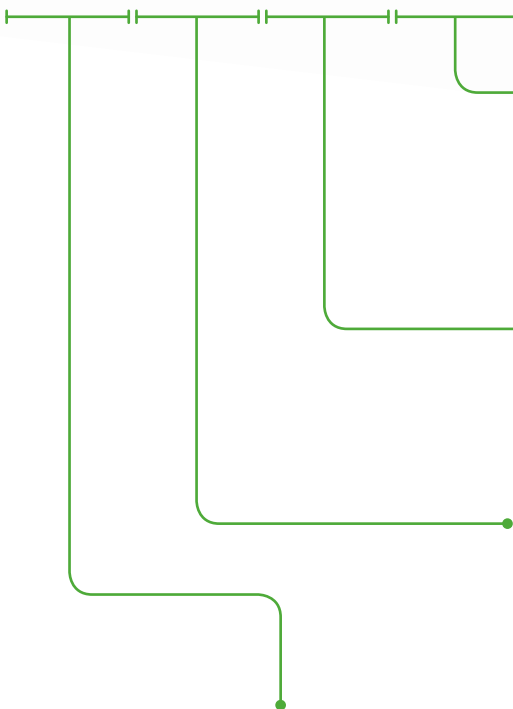




Each cable is certified by an accredited laboratory
 The certification is proof of performance.
To know more about CPR : link to standard



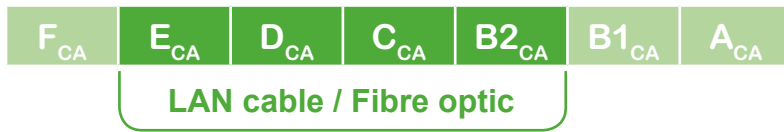
Example



a Acidity	
a ₁	Conductivity < 2.5 micro S/mm and pH > 4.3
a ₂	Conductivity < 10 micro S/mm and pH > 4.3
a ₃	No performance determined

d Flaming droplets	
d ₀	No flaming droplets within 1200 s
d ₁	No flaming droplets within persisting longer than 10 s
d ₂	No performance determined

s Smoke	
s ₁	TSP1200 ≤ 50 m ² and Peak SPR ≤ 0.25 m ² /S s _{1a} = s ₁ and transmittance in accordance with EN 61034-2 ≥ 80 % s _{1b} = s ₁ and transmittance in accordance with EN 61034-2 ≥ 60 % < 80 %
s ₂	TSP1200 ≤ 400 m ² and Peak SPR ≤ 1.5 m ² /S
s ₃	No performance determined



CPR

5 tests for the new Euroclass ranking



Installer

Check cable conformity and provide the right document to security committee.



Distributor

Check conformity of product sold.



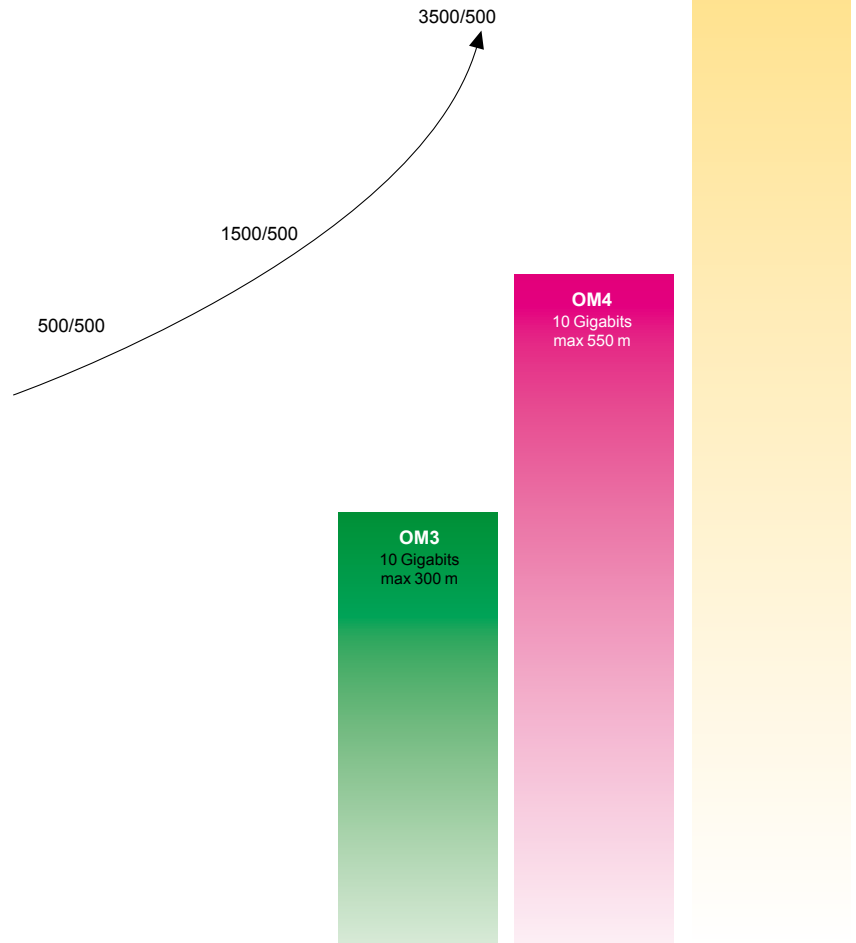
Specifier

Specify the right solution according to the local laws.

Fibre optic performances



Supports all kinds of network applications



Applications	Wavelength	Multimode fibre		Singlemode fibre
		OM3 50/125 µm	OM4 50/125 µm	OS2 9/125 µm
Overfilled Bandwidth (MHz.km)	OFL 850/1300 nm	1500/500	3500/500	-
100 Gbit/s *Draft IEEE 802.3ba		100 m	125 m	10 km / 40 km
40 Gbit/s *Draft IEEE 802.3ba		100 m	125 m	10 km / 40 km
10 Gbit/s (10GBASE-SR/SW)	VCSEL 850 nm	300 m	550 m	-
10 Gbit/s (10GBASE-LX4)	LASER 1300 nm	300 m	300 m	-
10 Gbit/s (10GBASE-LRM)	LASER WDM 1300 nm	220 m	220 m	-
10 Gbit/s (10GBASE-LR/LW)	LASER 1310 nm	-	-	10 km
10 Gbit/s (10GBASE-ER/EW)	LASER 1550 nm	-	-	40 km
1 Gbit/s (1000BASE-SX)	VCSEL 850 nm	1000 m	1100 m	-
1 Gbit/s (1000BASE-LX)	LASER 1300/1310 nm	550 m	600 m	5 km
100 Mbit/s (100BASE-SX)	VCSEL 850 nm	300 m	300 m	-
100 Mbit/s (100BASE-LX)	LASER 1300/1310 nm	2000 m	2000 m	>20 km



Panel for cassette

- Empty sliding panel 1U, 19"
- Depth 257 mm
- Unit packaging
- Painting Epoxy RAL 9005 - Black color
- Provided with 2 cage nuts M6 compatible with perforations 8.5 x 8.5 mm and 9.5 x 9.5 mm.

Overhead support for cassette

- Fixing under cable tray / mesh tray
- Passive optic network easy to relocate, bring flexibility in data centre
- Compliant with all cassettes VDILC*
- Unit packaging
- Painting Epoxy RAL 9005 - Black color
- Provided with 2 fixation screws.

Sealing plate

- Metallic face plate 1U and 1/2U
- Easy mounting on panels
- Obturation for cassette (1U) or half size (1/2U)
- Unit packaging
- Painting Epoxy RAL 9005 - Black color
- Provided with 2 screws with unloosable screws.

MTP adapters

- 1U support equipped with MTP adapters
- Use for connectors MTP 12 and 24 fibres
- Mounted on cassettes and overhead patch support for cassettes
- Each adapter is equipped with cap.

MTP adapters cont.

- Color code with adapters:
 - OM3: aqua, OM4: magenta, OS2: green
- Unit packaging
- Painting Epoxy RAL 9005 - Black color
- Provided with 2 fixation screws.

MTP Helper

- White plastic helper for protecting and holding the MTP connector
- Applied force ≤50N
- Reusable
- Applicable for all MTP trunk cables and MTP fanout in our offer

Cleaning tools

- Optic connectors have to be cleaned before any use for connections in order to ensure the best optic performance.
- Cleaning tools mandatory for SC, LC ou MTP connectors
- Cleaning in 1 action, Clean all type of residual
- More than 500 cleaning use for 1 single cleaning tool
- Adaptation for adapters
- RoHS compliant
- Unit packaging.

Demo kit

- Aluminium pack
- Pack equipped with:
 - 1 optic panel equipped 96 LCq / 4*24 MTP
 - 1 cassette 6*24 MTP pre-terminated 6*24 MTP - 2 meters
 - 1 link 24 LC preterminated 1*24 MTP - 2 meters
 - 1 tool MTP
- Dimensions: 550 x 430 x 195 mm
- Unit packaging.

Empty panels and accessories

Type	Ref. No
Empty panel 1U 19" for 4 cassettes or 8 half size cassettes	VDILP3
Overhead panel for 1 cassette 257 mm	VDILP5
Sealing plate 1 slot 1U for VDILP3	VDILA1
Sealing plate 1 slot 1/2U for VDILP3	VDILA2
Plate equipped with 6 adapters MTP OM3 for VDILP3	VDILA33
Plate equipped with 6 adapters MTP OM4 for VDILP3	VDILA34
Plate equipped with 6 adapters MTP OS2 for VDILP3	VDILA36
MTP Helper	VDILA6
Cleaning tool LC	VDILA501
Cleaning tool SC	VDILA503
Cleaning tool MTP	VDILA504
Demo kit	VDILA4

P147240



P140772





Optic panels pre-connectorized SC/LC/LCq to MTP

Specifications

- Metallic panels equipped with optic connectors pre-connectorized in factory
- 48 ports (SC or LC) and 96 ports (LCq) in 1U
- Depth 270 mm
- Pre-Tested panels in factory. Traceability per serial number
- Closed panels and equipped panels with imunity labels
- Color code with SC/LC/LCq adapters:
 - OM3: aqua
 - OM4: magenta
 - OS2: bleu
- MTP at the rear with 12 or 24 ports
- Color code MTP adapters:
 - OM3: aqua
 - OM4: magenta
 - OS2: vert
- Optic Standards: ANSI/TIA-568-C.0-2-2012
- Unit packaging
- Epoxy RAL 9005 - Black color
- Provided with 2 cage nuts M6 compatible with perforations 8.5 x 8.5 mm and 9.5 x 9.5 mm
- Transparent SC connector to ease testing
- Male MTP connector by default, female MTP connector is also available upon request
- Low loss connector is available upon request.

Performances

- Optic Standards: ANSI/TIA-568-C.0-2-2012
- OM3, OM4, OS2.

Pre equipped fibre panel SC / LC / LCq to MTPm				
Performance	Connector	Number	MTP	Ref. No
	Type			
OM3	LC	48	2 x 24	VDILP131S5L
			4 x 12	VDILP131S5F
	LCq	96	4 x 24	VDILP132U5N
			8 x 12	VDILP132U5H
	SC	48	2 x 24	VDILP133S5L
			4 x 12	VDILP133S5F
OM4	LC	48	2 x 24	VDILP141S5L
			4 x 12	VDILP141S5F
	LCq	96	4 x 24	VDILP142U5N
			8 x 12	VDILP142U5H
	SC	48	2 x 24	VDILP143S5L
			4 x 12	VDILP143S5F
OS2	LC	48	2 x 24	VDILP161S5L
			4 x 12	VDILP161S5F
	LCq	96	4 x 24	VDILP162U5N
			8 x 12	VDILP162U5H
	SC	48	2 x 24	VDILP163S5L
			4 x 12	VDILP163S5F

P140773





Pre-connectorized optic cassette SC/LC to MTP

Specifications

- Pre-terminated optic cassettes enable architecture evolution according to your needs -> Pays as you grow
- Metallic cassettes are 100 % pre-equipped and pre-tested with optic connectors at factory site
- Optic cassettes 12 and 24 ports in 1U
- Optic cassettes 12 ports in 1/2U
- Traceability per serial number
- Cassettes can be mounted in cassette panel VDILP3 (4 cassettes capacity) and in overhead support VDILP5 (1 cassette capacity)
- Color code with SC/LC/LCq adapters:
 - OM3: aqua
 - OM4: magenta
 - OS2: blue
- MTP at the rear with 12 or 24 ports
- Color code MTP adapters:
 - OM3: aqua
 - OM4: magenta
 - OS2: green
- Optic Standards: ANSI/TIA-568-C.0-2-2012
- Unit packaging
- Epoxy RAL 9005 - Black color
- Provided with 2 fixation screws
- Transparent SC connector to ease testing
- Male MTP connector by default, female MTP connector is also available upon request
- Low loss connector is available upon request.

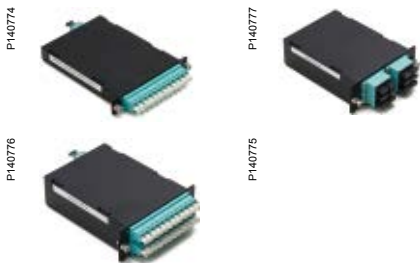
Performances

- Optic Standards: ANSI/TIA-568-C.0-2-2012
- OM3, OM4, OS2.

Cassette MTP preterminated LC or SC

Performance	Connector		MTP	Ref. No
	Type	Number		
OM3	LC	12	1 x 12	VDILC135C1C*
			VDILC235C1C	
		24	1 x 24	VDILC235K1K
	2 x 12		VDILC235D1D	
	SC		12	1 x 12
	OM4	LC	12	1 x 12
VDILC245C1C				
24			1 x 24	VDILC245K1K
		2 x 12	VDILC245D1D	
		SC	12	1 x 12
OS2		LC	12	1 x 12
	VDILC265C1C			
	24		1 x 24	VDILC265K1K
		2 x 12	VDILC265D1D	
		SC	12	1 x 12

(*) Cassette half size (1/2U).





Pre-terminated solution

EMEAS

Available on request/Selection guide

Pre-Terminated Link Configurations with Cassettes, Cables, Fibre Optic connectors

- Metallic Cassette RAL 9005 - Black color
- LSZH cable use - Indoor/Outdoor - Bend insensitive
- LC/SC/MTP connectors.

Cassette MTPm preterminated MTPm

Performance	Connector		Ref. No (xxx: length in meters)
	MTP	MTP	
OM3	12 x 12	12 x 12	VDILC435J5J0xxx
	6 x 12	6 x 12	VDILC435G5G0xxx
	6 x 24	6 x 24	VDILC435P5P0xxx
OM4	12 x 12	12 x 12	VDILC445J5J0xxx
	6 x 12	6 x 12	VDILC445G5G0xxx
	6 x 24	6 x 24	VDILC445P5P0xxx
OS2	12 x 12	12 x 12	VDILC465J5J0xxx
	6 x 12	6 x 12	VDILC465G5G0xxx
	6 x 24	6 x 24	VDILC465P5P0xxx

Cassette MTPm preterminated cassette MTPm

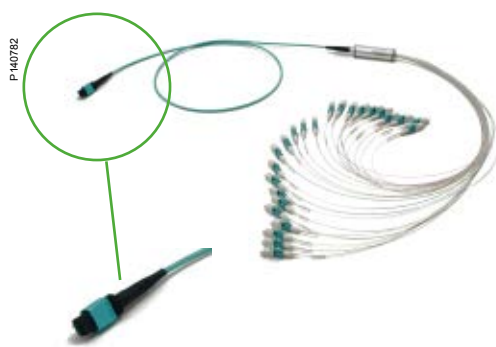
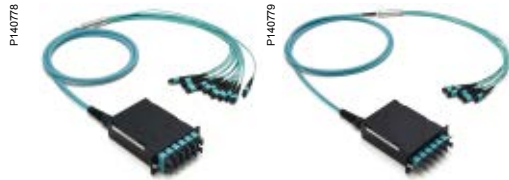
Performance	Connector		Ref. No (xxx: length in meters)
	MTP	MTP	
OM3	12 x 12	12 x 12	VDILC335J5J0xxx
	6 x 12	6 x 12	VDILC335G5G0xxx
	6 x 24	6 x 24	VDILC335P5P0xxx
OM4	12 x 12	12 x 12	VDILC345J5J0xxx
	6 x 12	6 x 12	VDILC345G5G0xxx
	6 x 24	6 x 24	VDILC345P5P0xxx
OS2	12 x 12	12 x 12	VDILC365J5J0xxx
	6 x 12	6 x 12	VDILC365G5G0xxx
	6 x 24	6 x 24	VDILC365P5P0xxx

Specifications

- MTP connectors are MPO connectors with more performance
- MTP connectors answers to standards IEC 61754-7 et TIA-604-5 and are compatible with MPO connectors
- Cable is compliant to Euroclass $C_{CA} s_{1a} d_1 a_1$.

Benefits

- High density in 1U up to 576 optic fibres
- Easy deployment of network architecture in your data centre
- Congestion in racks reduced by 70 %.





Trunk MTPf / MTPf

Specifications

- Female connector by default, male connector is available upon request
- Polarity C (other polarities is available upon request)
- Cable is compliant to Euroclass C_{CA}S_{1a}d₂a₂

P140787



Performance	Connector		Ref. No (xxx: length in metres)
	MTP	MTP	
OM3	1 x 12	1 x 12	VDILL034C4C0xxx
	1 x 24	1 x 24	VDILL034K4K0xxx
		2 x 12	VDILL034K4D0xxx
		2 x 12	VDILL034D4D0xxx
OM4	1 x 12	1 x 12	VDILL044C4C0xxx
	1 x 24	1 x 24	VDILL044K4K0xxx
		2 x 12	VDILL044K4D0xxx
		2 x 12	VDILL044D4D0xxx
OS2	1 x 12	1 x 12	VDILL064C4C0xxx
	1 x 24	1 x 24	VDILL064K4K0xxx
		2 x 12	VDILL064K4D0xxx
		2 x 12	VDILL064D4D0xxx

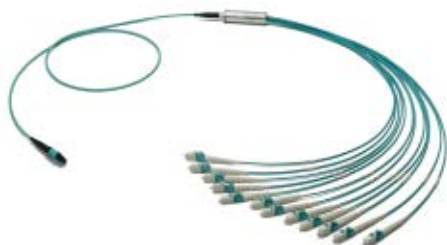


Pre-terminated solution

EMEAS

Available on request/Selection guide

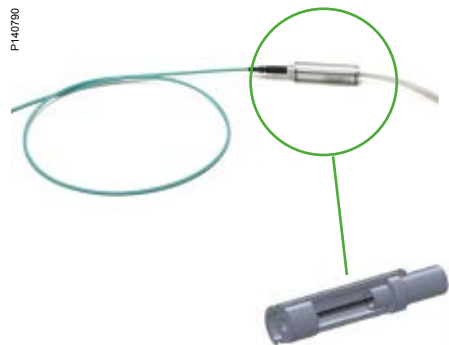
P140788



P140789



P140790



Fanout MTPm / LC or SC

Performance Connector		Type	Number	MTP	Fibre	Ref. No (xxx: length in meters)
OM3	LC	12	1 x 12	2 mm	2 mm	VDILL035C1C2xxx
					900 µm	VDILL035C1C1xxx
		24	1 x 24	2 mm	2 mm	VDILL035K1K2xxx
					900 µm	VDILL035K1K1xxx
		2 x 12	2 mm	2 mm	VDILL035D1K2xxx	
				900 µm	VDILL035D1K1xxx	
	SC	12	1 x 12	2 mm	2 mm	VDILL035C3C2xxx
					900 µm	VDILL035C3C1xxx
		24	1 x 24	2 mm	2 mm	VDILL035K3K2xxx
					900 µm	VDILL035K3K1xxx
		2 x 12	2 mm	2 mm	VDILL035D3K2xxx	
				900 µm	VDILL035D3K1xxx	
OM4	LC	12	1 x 12	2 mm	2 mm	VDILL045C1C2xxx
					900 µm	VDILL045C1C1xxx
		24	1 x 24	2 mm	2 mm	VDILL045K1K2xxx
					900 µm	VDILL045K1K1xxx
		2 x 12	2 mm	2 mm	VDILL045D1K2xxx	
				900 µm	VDILL045D1K1xxx	
	SC	12	1 x 12	2 mm	2 mm	VDILL045C3C2xxx
					900 µm	VDILL045C3C1xxx
		24	1 x 24	2 mm	2 mm	VDILL045K3K2xxx
					900 µm	VDILL045K3K1xxx
		2 x 12	2 mm	2 mm	VDILL045D3K2xxx	
				900 µm	VDILL045D3K1xxx	
OS2	LC	12	1 x 12	2 mm	2 mm	VDILL065C1C2xxx
					900 µm	VDILL065C1C1xxx
		24	1 x 24	2 mm	2 mm	VDILL065K1K2xxx
					900 µm	VDILL065K1K1xxx
		2 x 12	2 mm	2 mm	VDILL065D1K2xxx	
				900 µm	VDILL065D1K1xxx	
	SC	12	1 x 12	2 mm	2 mm	VDILL065C3C2xxx
					900 µm	VDILL065C3C1xxx
		24	1 x 24	2 mm	2 mm	VDILL065K3K2xxx
					900 µm	VDILL065K3K1xxx
		2 x 12	2 mm	2 mm	VDILL065D3K2xxx	
				900 µm	VDILL065D3K1xxx	

Offering 2 methods for fibre optic split for fan out configurations

A lot of link configurations exist, they are proposed with 2 different ways for splitting:

- Traditional method with heat-shrinkable girdle
- Advanced method with metallic splitter
- Universal for all type of cables:
 - tight buffered structure
 - 250 µm unitube
 - 900 µm tight buffered
- Metallic splitter advantages are:
 - Fibre protection per metallic splitter, Re-sheathing in 2.0 mm possible, fibres without congestion and stress
 - Less cable and less mesh tray needed thanks to diameter reduction
 - Links easy to deploy thanks to bend radius reduction
 - Applicable on all type of cables
 - Cable is compliant to Euroclass C_{CA} s_{1a} d₁ a₁.



Pre-terminated solution

EMEAS

Available on request/Selection guide

Traditional link LC or SC with metallic splitter

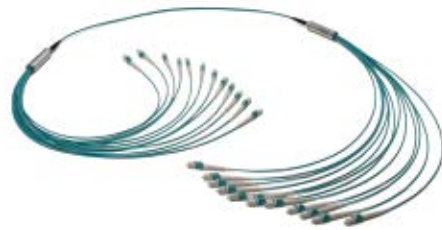
Specifications

■ Cable is compliant to Euroclass C_{CA} s_{1a} d₁ a₁

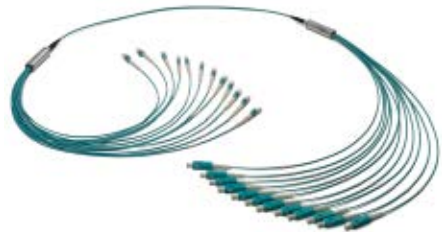
P140794



P140795



P140796



P140797



Performance	Connector				Fibre	Ref. No (xxx: length in meters)	
	Type	Number	Type	Number			
OM3	LC	12	LC	12	2 mm	VDILL031C1C2xxx	
					900 µm	VDILL031C1C1xxx	
		SC				2 mm	VDILL031C3C2xxx
						900 µm	VDILL031C3C1xxx
		24	LC	24		2 mm	VDILL031K1K2xxx
						900 µm	VDILL031K1K1xxx
	SC				2 mm	VDILL031K3K2xxx	
					900 µm	VDILL031K3K1xxx	
	SC	12	SC	12	2 mm	VDILL033C3C2xxx	
					900 µm	VDILL033C3C1xxx	
		24				2 mm	VDILL033K3K2xxx
						900 µm	VDILL033K3K1xxx
OM4		LC	12	LC	12	2 mm	VDILL041C1C2xxx
						900 µm	VDILL041C1C1xxx
	SC					2 mm	VDILL041C3C2xxx
						900 µm	VDILL041C3C1xxx
	24		LC	24		2 mm	VDILL041K1K2xxx
						900 µm	VDILL041K1K1xxx
SC				2 mm	VDILL041K3K2xxx		
				900 µm	VDILL041K3K1xxx		
SC	12	SC	12	2 mm	VDILL043C3C2xxx		
				900 µm	VDILL043C3C1xxx		
	24				2 mm	VDILL043K3K2xxx	
					900 µm	VDILL043K3K1xxx	
	OS2	LC	12	LC	12	2 mm	VDILL061C1C2xxx
						900 µm	VDILL061C1C1xxx
SC						2 mm	VDILL061C3C2xxx
						900 µm	VDILL061C3C1xxx
24			LC	24		2 mm	VDILL061K1K2xxx
						900 µm	VDILL061K1K1xxx
SC				2 mm	VDILL061K3K2xxx		
				900 µm	VDILL061K3K1xxx		
SC	12	SC	12	2 mm	VDILL063C3C2xxx		
				900 µm	VDILL063C3C1xxx		
	24				2 mm	VDILL063K3K2xxx	
					900 µm	VDILL063K3K1xxx	



Pre-terminated solution

APAC

19-HD fibre panel

Schneider Electric offers an innovative, robust 1U enclosure with sliding mechanism for 3 FL-MLink (MTP Brand) cassettes and 4U enclosure for 12 FL-MLink (MTP Brand) cassettes. It offers a flexible solution to customers, enabling them to incorporate a multi-functional enclosure which allow easy access during installation or maintenance, with no disturbance of existing cables.

This 19-HD fibre panel can fit MTP cassettes as pre-terminated solution or standard fibre adaptor plate for field-termination application.

To answer a higher density need, 19-HD+ fibre panel is also available, which can fit 4 HD+ MTP cassettes, supporting max. 96F MTP-LC pre-terminated solution.

Product features

- Fits 19" standard rack or cabinet
- Accommodate to all available FL-MLink (MTP Brand) cassettes
- 19-HD fibre panel also accommodate standard fibre adaptor plates (refer to LSB02659EN.indd page 168)
- Adjustable wiring ring for cable management
- Flexigrass front door with magnetic suction
- Cable gland with "U" rubber seal
- Compliant with EIA-310-D.

Customer benefits

- Support indoor applications for data centre, premise installations, telecommunication networks
- Easy to manage cable assemblies or fan-out cables
- Flexible to manage incoming trunk cables or cable assemblies.

C13B4596



Description	Ref. No
19-HD fibre panel, 1U, fits 3 MTP cassettes, unloaded	ACTMP1U*
19-HD+ fibre panel, 1U, fits 4 MTP cassettes, unloaded	ACTMP1UH
19-HD fibre panel, 4U, fits 12 MTP cassettes, unloaded	ACTMP4U*

(*) Also accommodate standard fibre adaptor plates.



Pre-terminated solution

APAC MTP cassette

Schneider Electric FL-MLink (MTP brand) fibre cassette is a repaid and flexible plug and play cable management solution to improve cabling manageability.

Each fibre cassette is pre-installed with factory terminated and tested to assure quality on optical loss performance. The fibre cassette is flexible to be integrated into 1U/4U 19-HD fibre panel and 19-HD+ fibre panel, which support rapid deployment and reliable cable management of high density data centre infrastructure.

Product features

- MTP (US Conec) brand MPO in standard compliant multi fibre connector
- Standard MTP cassettes and HD+ MTP cassettes for different density need
- Duplex LC adaptors faceplate
- OS2, OM3 and OM4 fibre available
- Factory terminated and tested
- Options of polarity (straight through, reversed pair flip)
- Compliant with TIA/EIA-568-C.3, ISO/IEC 11801
- Female MTP Connector by default, male MTP connector is also available upon request
- Low loss connector is available upon request.

Customer benefits

- Simple installation and reconfiguration for Moves, Adds and Changes (MACs)
- High density easy-plug cassette (12-fibre per cassette as standard)
- Reduces labour cost and saves times on installation and testing
- Offer high precision and robust connectivity.

P9276528



ACTMMOT24xx

Description	Ref. No
MTP cassette, 12-core, LC duplex, single-mode OS2	ACTMMOS12xx
MTP cassette, 24-core, LC duplex, single-mode OS2	ACTMMOS24xx
MTP cassette, 12-core, LC duplex, multi-mode OM3	ACTMMOT12xx
MTP cassette, 24-core, LC duplex, multi-mode OM3	ACTMMOT24xx
MTP cassette, 12-core, LC duplex, multi-mode OM4	ACTMMOG12xx
MTP cassette, 24-core, LC duplex, multi-mode OM4	ACTMMOG24xx
Blank plate for ACTMP1U and ACTMP4U	ACTMPBP
<hr/>	
HD+ MTP cassette, 12-core, LC duplex, single-mode OS2	ACTMMOS12xxH
HD+ MTP cassette, 24-core, LC duplex, single-mode OS2	ACTMMOS24xxH
HD+ MTP cassette, 12-core, LC duplex, single-mode OM3	ACTMMOT12xxH
HD+ MTP cassette, 24-core, LC duplex, single-mode OM3	ACTMMOT24xxH
HD+ MTP cassette, 12-core, LC duplex, single-mode OM4	ACTMMOG12xxH
HD+ MTP cassette, 24-core, LC duplex, single-mode OM4	ACTMMOG24xxH
HD+ Blank plate for ACTMP1UH	ACTMPBPH

Where **xx** denotes polarity (S: Straight through, F: pair Flipped, R: Reversed, RF: Reversed, pair Flipped).



IMG_9616



ACTMTMMT12LS055R

Schneider FL-MLink (MTP brand) trunk cables providing an effective way to install a large amount of cables quickly. It is especially suitable for the areas that require high density, rapid deployment and high performance such as Data Centre.

These high performance factory terminated and tested assemblies are pre-terminated 12-fibre or 24-fibre MTP connectors and offered in customer specific lengths. Normal fibre count is 12 or 24 (higher core counts up to 144 fibres are available upon special request) and fibre types OS2, OM3, OM4 are available for each installation need.

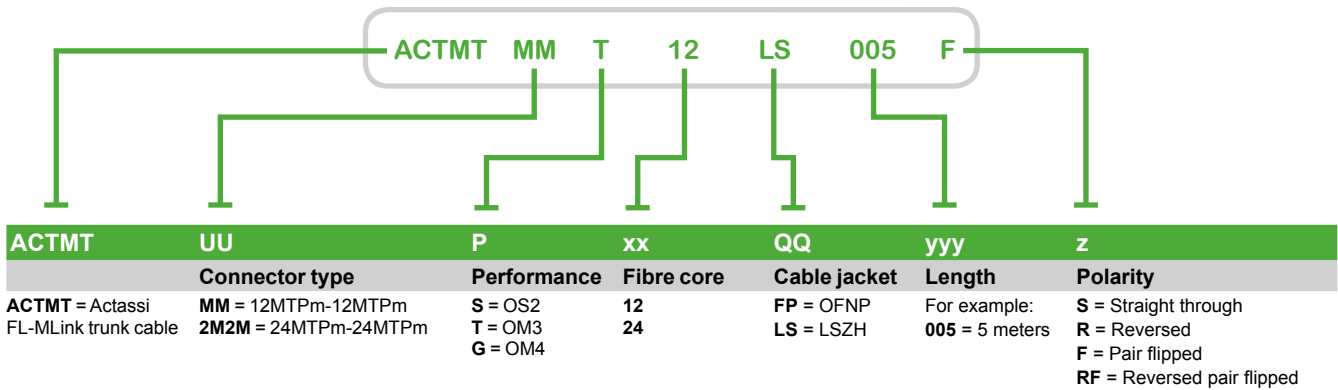
Product features

- Compliant TIA/EIA-568-C3, ISO/IEC 11801, TIA/EIA-604-5
- 100 % factory terminated and tested
- LSZH trunk cable are doubled jacket, best suitable for backbone installation
- Low loss MTP connectors are available upon request
- Options of polarity (straight through, reversed, pair flipped)
- Provide pulling eye at one end of the cable
- Label on the trunk cable for traceability
- Male MTP connector by default, female MTP connectors are available upon request.

Customer benefits

- 10G, 40G, 100G ready a reliable high density, high performance optic interconnections
- Quick and easy connection with MTP mechanism
- Low insertion loss and reflectance for cable
- No cable preparation is necessary
- Reduced on-site disruption and installation time
- Pulling eye design to fit for different installation environment
- Cost effective optic cabling solution.

Principle of reference numbers



e.g.:

- ACTMTMMT12LS005F = Actassi FL-MLink trunk cable, 12MTPm-12MTPm, OM3, 12-core, LSZH, 5 m, Polarity Pair-flipped
- ACTMTMMS24LS010R = Actassi FL-MLink trunk cable, 2x12MTPm-2x12MTPm, OS2, 24-core, LSZH, 10 m, Polarity Reversed
- ACTMT2M2MT24FP050S = Actassi FL-MLink trunk cable, 24MTPm-24MTPm, OM3, 24-core, OFNP, 50 m, Polarity Straight Through.



MTP-LC 12F Harness



ACTMHMLT20185F

Schneider Electric FL-MLink (MTP Brand) ruggedized harness fan-out assembly is ideal for short internal interconnection. They are used to directly interconnect MTP cassettes, panels or backbone. MTP assemblies with the active equipment, saving costly data centre rack space and easing fibre management.

MTP-MTP and MTP-LC harness / fan-out assemblies are offered in fibre count 12 or 24 fibres (higher fibre counts up to 144 are also available upon special requests) using a compact and suggested micro cable structure. The compact cables optimize pathway use and improve airflow.

Product features

- Compliant to TIA/EIA-568-C.3, ISO/IEC 11801, TIA/EIA-604-5 & IEC 61754-7
- Standard fibre offer: OS2, OM3, OM4
- LSZH, OFNP cable jacket
- 100 % factory terminated and tested
- Low loss MTP connectors are available upon request
- "W", "YW", "Y" cables are available supporting 40G/100G application
- Options of polarity (straight through, reversed, pair flipped)
- Label on the harness cable for traceability
- Female MTP-LC harness by default, male MTP is also available upon request.

Customer benefits

- Multiple fibres angles and flammability options
- Application specific design 12 up to 144 fibres
- Can be secured to cabinet mounting profile for saving space
- Compact cable
- Reduced interconnection topology improves power budget
- High reliability due to 100 % factory terminated and tested.

Principle of reference numbers: MTP-LC Harness

ACTMH TL S FP 010 S

ACTMH	UU	P	xx	yyy	z
	Connector 1	Performance	Cable jacket	Length	Polarity
ACTMH = Actassi FL-MLink Harness	TL = 12MTPf - LC T2L = 12MTPf x 2 - LC 2TL = 24MTPf - LC	S = OS2 T = OM3 G = OM4	FP = OFNP LS = LSZH	For example: 005 = 5 meters	S = Straight through R = Reversed F = Pair flipped RF = Reversed pair flipped

Note: MTPf = female MTP connector.

e.g.:

- ACTMHTLSFP010S = Actassi FL-MLink harness cable, 12MTPf-LC, OS2, OFNP, 10 meters, polarity Straight through
- ACTMH2TLGLS030R = Actassi FL-MLink harness cable, 24MTPf-LC, OM4, LSZH, 30 meters, polarity Reversed.

Principle of reference numbers: MTP-MTP Harness

ACTMH	UU	P	xx	yyy	z
	Connector 1	Performance	Cable jacket	Length	Polarity
ACTMH = Actassi FL-MLink Harness	TT = 12MTPf-12MTPf TTM = 12MTPf-12MTPm T2T2=12MTPfx2-12MTPfx2 2TN3 = 24MTPf-8MTPfx3 2TMN3 = 24MTPm-8MTPfx3 2TMT2 = 24MTPm-12MTPfx2 T2N3 = 12MTPfx2-8MTPfx3 T2MN3=12MTPmx2-8MTPfx3 2TT2=24MTPf-12MTPfx2 2TT2M=24MTPf-12MTPmx2 2T2T=24MTPf-24MTPf 2T2TM = 24MTPf - 24MTPm	S = OS2 T = OM3 G = OM4	FP = OFNP LS = LSZH	For example: 005 = 5 meters	S = Straight through R = Reversed F = Pair flipped RF = Reversed pair flipped

Note: MTPm = male MTP connector, MTPf = female MTP connector.

e.g.:

- ACTMHTLS005S = Actassi FL-MLink harness cable, 12MTPf-12MTPf, OS2, LSZH, 5 meters, polarity Straight through
- ACTMHTTMTLS010R = Actassi FL-MLink harness cable, 12MTPf-12MTPm, OM3, LSZH, 10 meters, polarity Reversed.

FL-C Loose tube Fibre optic cables

Specifications

- Compact and universal cables suitable for indoor and specific outdoor installations:

- Low Smoke Zero Halogen (LSZH) green coloured external sheath
- UV resistant
- dielectric
- high tensile strength
- rodent retardant
- longitudinally watertight

- Loose tube gel-filled cable construction with 250 µm coating available in unitube structure for 4, 6, 8 and 12 fibres and bitube structure for 24 fibres

- Flame retardant according to IEC 60332-1, EN 50265 2.1, NFC 32 070 2.1 (Category C2)

- Euroclass D_{CA} s₂ d₂ a₂.

Performances

- OM2 50/125 compliant with ITU G.651, IEC 60793-2-10 Type A1a.1 and ISO/IEC 11801: 2011 Ed2.2 OM2

- OM3 50/125 compliant with ITU G.651, IEC 60793-2-10 Type A1a.2 and ISO/IEC 11801: 2011 Ed2.2 OM3

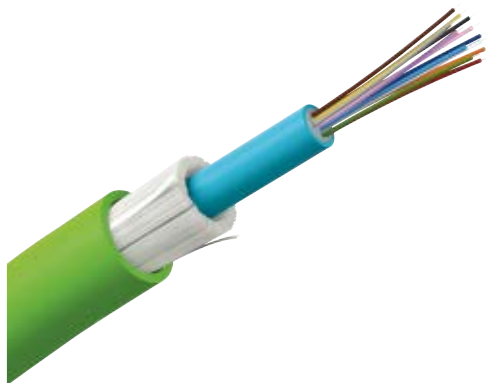
- OM4 50/125 compliant with IEC 60793-2-10 Type A1a.3, ISO/IEC 11801: 2011 Ed2.2 OM4

- OS1/OS2 9/125 compliant with ITU G.652.D, IEC 60793-2-50 Type B1.3, ISO/IEC 11801: 2011 Ed2.2 OS2

- Cable mechanical characteristics tested according to IEC 60794-1.

Use

- High data rate fibre optic backbones for building and campus
- Suitable for splicing termination: installation with pigtails by fusion or mechanical splices.



P118455

OS1/OS2 9/125 µm

Type	Length	Ref. No
Optic cable indoor/outdoor, OS1/OS2 9/125 µm single-mode fibres, green overall jacket.		
OS1/OS2 9/125, Loose tube, 4 fibres	2100 m Cut to length	VDICD52504L VDICD52504LM
OS1/OS2 9/125, Loose tube, 6 fibres	525 m	VDICD42506L
	2100 m	VDICD52506L
	Cut to length	VDICD52506LM
OS1/OS2 9/125, Loose tube, 8 fibres	2100 m	VDICD52508L
	Cut to length	VDICD52508LM
OS1/OS2 9/125, Loose tube, 12 fibres	525 m	VDICD42512L
	2100 m	VDICD52512L
	Cut to length	VDICD52512LM
OS1/OS2 9/125, Loose tube, 24 fibres	525 m	VDICD42524L
	2100 m	VDICD52524L
	Cut to length	VDICD52524LM

P118460
P120000

P118459
P120001

P118458
P120002

P118455
P120003

P118457
P120004

Go to the general catalogue for the complete offer!

FL-C Fibre optic cables

Range Loose tube

		OM3 50/125 µm		
		Type	Length	Ref. No
P118459 P120001 P118455 P120003 P118457 P120004		Optic cable Indoor/outdoor OM3 50/125 µm multimode fibres, green overall jacket.		
		OM3 50/125, Loose tube, 6 fibres	525 m	VDICD42306L
			2100 m	VDICD52306L
		Cut to length	VDICD52306LM	
		OM3 50/125, Loose tube, 12 fibres	525 m	VDICD42312L
			2100 m	VDICD52312L
		Cut to length	VDICD52312LM	
		OM3 50/125, Loose tube, 24 fibres	525 m	VDICD42324L
			2100 m	VDICD52324L
		Cut to length	VDICD52324LM	
		OM4 50/125 µm		
		Type	Length	Ref. No
P118459 P120001 P118455 P120003 P118457 P120004		Optic cable indoor/outdoor, OM4 50/125 µm multimode fibres, green overall jacket.		
		OM4 50/125, Loose tube, 6 fibres	2100 m	VDICD52406L
			Cut to length	VDICD52406LM
		OM4 50/125, Loose tube, 12 fibres	2100 m	VDICD52412L
			Cut to length	VDICD52412LM
		OM4 50/125, Loose tube, 24 fibres	2100 m	VDICD52424L
			Cut to length	VDICD52424LM

Go to the general catalogue for the complete offer!

The simplex LC fibre pigtails are 0.9 mm tight buffrt fibre with push-pull LC connectors terminated on each end. These pigtails are available in simplex multi-mode and single-mode configurations.

Product features

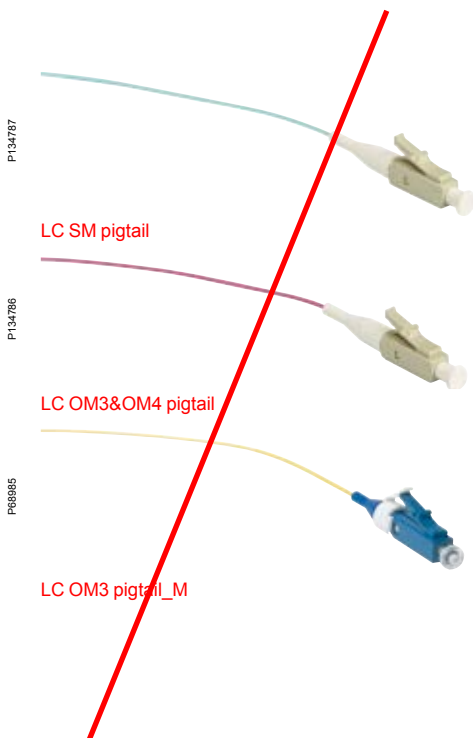
- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 standards
- Patch cords are available in simplex, single-mode and multi-mode configurations with different length options
- Cords are easy-to-install and environmentally stable
- Change to Low Smoke Zero Halogen (LSZH) sheath compliant to IEC 60332-3C.

Customer benefits

- Supports LAN, WAN and active device termination
- Provides a reliable and durable connection solution
- All cords are factory terminated and tested.

Description	Ref. No
OS2, single-mode	
LC, single-mode, pigtail, 1.0 m	ACTFT1L1S19S10
LC, single-mode, pigtail, 1.5 m	ACTFT1L1S19S15
LC, single-mode, pigtail, 2.0 m	ACTFT1L1S19S20
OM3, multi-mode	
LC, 50 µm, multi-mode, pigtail, 1.0 m	ACTFT1L1M35M10
LC, 50 µm, multi-mode, pigtail, 1.5 m	ACTFT1L1M35M15
LC, 50 µm, multi-mode, pigtail, 2.0 m	ACTFT1L1M35M20
OM4, multi-mode	
LC, 50 µm, multi-mode, pigtail, 1.0 m	ACTFT1L1M45M10
LC, 50 µm, multi-mode, pigtail, 1.5 m	ACTFT1L1M45M15
LC, 50 µm, multi-mode, pigtail, 2.0 m	ACTFT1L1M45M20

Go to the general catalogue for the complete offer!



pictures to be provided

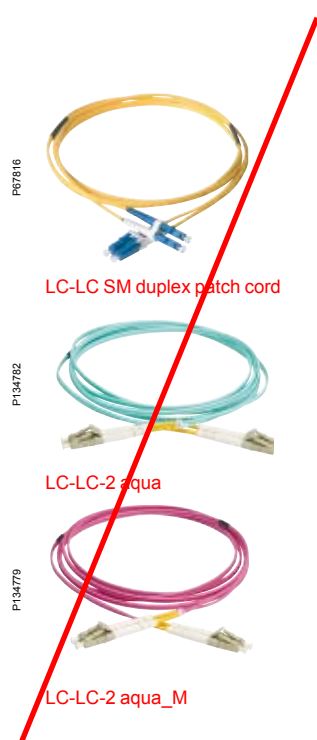
The simplex and duplex LC fibre patch cords are 1.6 mm mini cordage with push-pull LC connectors terminated on each end. These patch cords are available in simplex, duplex, multi-mode and single-mode configurations.

Product features

- Meets ANSI/TIA/EIA 568-C.3 and ISO/IEC 11801 standards
- Patch cords are available in single-mode and multi-mode configurations with different length options
- Cords are easy-to-install and environmentally stable
- Change to Low Smoke Zero Halogen (LSZH) sheath compliant to IEC 60332-3C.

Customer benefits

- Supports LAN, WAN and active device termination
- Provides a reliable and durable connection solution
- All cords are factory terminated and tested.



Description	Ref. No
Duplex OS2, single-mode	
LC-LC duplex, single-mode, patch cord, 1 m	ACTFP2L1S19S10
LC-LC duplex, single-mode, patch cord, 2 m	ACTFP2L1S19S20
LC-LC duplex, single-mode, patch cord, 3 m	ACTFP2L1S19S30
LC-LC duplex, single-mode, patch cord, 5 m	ACTFP2L1S19S50
LC-LC duplex, single-mode, patch cord, 10 m	ACTFP2L1S19S100
Duplex OM3, multi-mode	
LC-LC OM3 50 µm, duplex, multi-mode, patch cord, 1 m	ACTFP2L1M35M10
LC-LC OM3 50 µm, duplex, multi-mode, patch cord, 2 m	ACTFP2L1M35M20
LC-LC OM3 50 µm, duplex, multi-mode, patch cord, 3 m	ACTFP2L1M35M30
LC-LC OM3 50 µm, duplex, multi-mode, patch cord, 5 m	ACTFP2L1M35M50
LC-LC OM3 50 µm, duplex, multi-mode, patch cord, 10 m	ACTFP2L1M35M100
Duplex OM4, multi-mode	
LC-LC OM4 50 µm, duplex, multi-mode, patch cord, 1 m	ACTFP2L1M45M10
LC-LC OM4 50 µm, duplex, multi-mode, patch cord, 2 m	ACTFP2L1M45M20
LC-LC OM4 50 µm, duplex, multi-mode, patch cord, 3 m	ACTFP2L1M45M30
LC-LC OM4 50 µm, duplex, multi-mode, patch cord, 5 m	ACTFP2L1M45M50
LC-LC OM4 50 µm, duplex, multi-mode, patch cord, 10 m	ACTFP2L1M45M100

Note: duplex OM4, multi-mode will be provided upon request.

[Go to the general catalogue for the complete offer!](#)

pictures to be provided

19-HD Fibre panels

Range

The Actassi 19-HD fibre panel is a superior and compact fibre termination solution. It is mountable in 19" equipment racks or cabinets. The 1U panel accepts maximum 3 adaptor plates with maximum 72 fibres count while 4U panel can accept maximum 12 adaptor plates with maximum capacity of 288 fibres.

Built-in (adjustable in 1U panel) wiring rings, rubber-seal cable entries are aimed to cater easy cable management.

Transparent front cover (with magnetic suction mechanism) provides instant visibility of the connection status, also provides perfect protection against dust and humidity.

Design with multiple applications in mind, the Actassi 19-HD fibre panel can accommodate different types of modular adaptor panel plates and splice trays (optional) to give outstanding performance and functionality.

1U Panel: 400 x 482 x 44 mm

- Compatible with 19" open rack / cabinets (depth > 500 mm)
- 1U panel drawer with sliding rails and stopper lock mechanism
- Optional snap-in adaptor plates / blank plates (max. 3)
- Built-in adjustable cable management rings and cable entries
- Maximum density of 72 fibres (LC version).

Description

HD fibre panel, 1U, fits up to 3 adaptor plates, Unloaded

Ref. No

ACTMP1U

P146540



4U panel: 400 x 482 x 175 mm

- Compatible with 19" open rack / cabinets (depth > 500 mm)
- With removal top cover lip
- Optional snap-in adaptor plates / blank plates (max. 12)
- Built-in cable management rings and cable entries
- Maximum density of 288 fibres (LC version).

Description

HD fibre panel, 4U, fits up to 12 adaptor plates, Unloaded

Ref. No

ACTMP4U

P146841





Plates

- Blank plates and adapter plates to be fixed on Actassi 19-HD fibre panel ref ACTMP1U and ACTMP4U
- Quick fixation by push-pull rivets
- Zirconia ceramic material ferrules for higher performance.

Coverplates with adapters

Description	Ref. No
Adapter plate with 12 LC duplex beige adapters for multimode OM2/OM3/OM4 (support also singlemode)	ACTFM1UF2LC12PM
Adapter plate with 12 LC duplex blue adapters for singlemode OS1/OS2 (support also multimode OM2/OM3/OM4)	ACTFM1UF2LC12PS

Blank plate

Description	Ref. No
Blank adapter plate for ACTMP1U & ACTMP4U	ACTMPBP

Splice tray

- Delivered with a cover and accessories
- Maximum 3 x 1U fusion splice tray kit can be stacked inside 1U HD fibre panel
- Only 1x 4U fusion splice tray kit is needed for 4U HD fibre panel (total 12 splice trays)
- Ready to install: fusion splice holders & heat shrink tube included.

Description	Ref. No
1U Fusion splice tray kit (max. 24-fibres)	ACTFMSPTKIT
4U Fusion splice tray kit (Full Set for up to 288 fibres)	ACTFMSPT4USET

Evolution universal sliding fibre optic panel 1U

- Universal sliding 19" fibre optic panel with 4 positions, equipped with 3 blank plates. The 1st position is empty and is to be fitted with suitable coverplate
- 1 Quick Fix function on both sides to allow a simple, quick fixing position and sliding feature
- Removable transparent cover mounted
- Fibre patch cord guiding structure at the front, protected by cover equipped with label holders
- Maximum density of 48 fibres for 1U (LC rectangular version).

Evolution panel for splices

- Equipped with one coiling wheel, 2 PG9 (Ø 7 mm max.) cable glands and one splicing cassette (without splice holder)
- Possibility to stack up to 2 splicing cassettes for high density.

P111287



Description

Evolution Fibre optic panel 1U with 3 blank plates, for splices

Ref. No

VDIG150991V2

Splice tray

- Delivered with a cover and accessories
- Maximum 2 x 1U fusion splice tray kit can be stacked inside 19-C fibre panel
- Ready to install: fusion splice holders & heat shrink tube included.

P146832



Description

1U Fusion splice tray kit (max. 24-fibres)

Ref. No

ACTFMSPTKIT

Plates

- Blank plates and coverplates to be fixed on fibre optic Quick Fix panel VDIG150991001
- Quick fixation by push-pull rivets.

Coverplates without adapters

Description

Coverplate for 6 LC duplex adapters (compatible with LC duplex Adapters / rectangular VDIB6051003, VDIB6051004, VDIB6052003 and VDIB6052004).

Ref. No

VDIM155061

P120801



Internal fixing plate for 1 adapter MPO to be fixed at the rear of the panel

Description

Internal fixing plate for 1 adapter MPO

Ref. No

VDIM157021

P112926



Go to the general catalogue for the complete offer!

Adapters

- Fibre optic adapters suitable to connect and align optic connectors (for both applications: optic patchpanels in technical rooms and faceplates at workstation):
 - Both multimode and singlemode versions
 - Identification of multimode adapters with beige color
 - Identification of singlemode adapters with blue color
 - Available in LC and MPO formats
 - Zirconia ceramic material ferrules
 - Snap-in latch.

Multimode (MM) adapters

Type	Qty/pack	Ref. No
LC Duplex Adapter rect MM	1	VDIB6051003
	100	VDIB6051004

Singlemode (SM) adapters

Type	Qty/pack	Ref. No
LC Duplex Adapter rect SM	1	VDIB6052003
	100	VDIB6052004

MPO Adapter

Type	Qty/pack	Ref. No
MPO Adapter	1	VDIB6123001

P133699



P133700



P134792



Go to the general catalogue for the complete offer!

19" power panel 16 A/250 V

- Profile: 1U height ALU Anodize
- Sockets: 2-pole with earthing contact 16 A/3680 W, AC 250 V, IP20, colour RAL 7016, plastic material: PA6 GF30
- 1 Quick Fix function on both sides to allow a simple, quick fixing position fitted with 3 m length power cord
- Supplied with personalized cable identification labels.

Standard

Description	Ref. No
Power panel 9 x French outlets according to NFC 61314.	VDIG161911
Power panel 9 x Schuko outlets according to DIN 49 440	VDIG161931
Power panel 9 x Danish outlets according to DS/IEC 60884-1	VDIG161941
Power panel 9 x Danish outlets EDB according to DS/IEC 60884-1	VDIG161951

With protected light switch + overvoltage protection

- Short circuit protection 6.5 kA
- Protection level Up 1.5 kV
- Optic signal for function (green)
- Optic signal for defect (orange).

Description	Ref. No
Power panel 7 x French outlets according to NFC 61314.	VDIG164711
Power panel 7 x Schuko outlets according to DIN 49 440	VDIG164731
Power panel 7 x Danish outlets 10 amp. according to DS/IEC 60884-1	VDIG1647411

With circuit breaker/earth leakage 230 V, 16 A, 30 mA

Description	Ref. No
Power panel 6 x French outlets according to NFC 61314	VDIG163611
Power panel 6 x Schuko outlets according to DIN 49 440	VDIG163631
Power panel 6 x Danish outlets 10 amp. according to DS/IEC 60884-1	VDIG1636411



Go to the general catalogue for the complete offer!

Stago Fibre-Optic Duct

Working together for full-scale effect of the infrastructure

P150961



Network solutions

A large-scale Data Centre means large-scale cable management. Our wide range of fibre ducts and mesh trays provides flawless orderliness as well as easy adjustment and maintenance.

Stago Fibre-Optic Duct Smooth, robust and versatile

In the Data Centre, rows and rows of smooth and robust fibre ducts provide safe and reliable distribution of sensitive cables. These sturdy steel ducts come with a wide range of accessories – bends, risers, junctions, reducers, and drop-offs. All designed to handle the most complex configurations, always with excellent protection of the cables.

Defem Mesh Tray Flexible and lightweight

The mesh trays, with dedicated accessories and support systems, are excellent for the routing of huge amounts of copper-based data cables. Easily assembled with impressive capacity and long support distances, the mesh tray range reach from wide, heavy-duty versions to the flexible mini mesh, ideal for tricky installations in narrow spaces.

From here on this brochure presents the details. Because at the end of the day, it is the details that determine whether the Data Centre infrastructure will contribute to a successful life cycle – or if a coming infarct is a built-in mistake from birth.



Power solutions

A reliable, efficient power supply system is the backbone of the Data Centre. As needs are in constant change, the power solution must be as reliable as it is flexible.

Wibe Ladders

Light, strong and dependable

As part of one of the most comprehensive cable support solutions on the market, Wibe cable ladders can be mounted in any direction or angle, distributing the cables safely and efficiently throughout the building. Maintenance is carried out with little effort, in a work environment that provides both superb accessibility and overview.

Canalis Busbar Trunking

Effective power distribution

Using Canalis busbar trunking in addition to traditional cables is the fast way to truly effective power distribution. Make great savings on installation time and space, while benefiting from exceptional flexibility and cost efficiency. The system provides excellent conditions for service and maintenance, as no power shutdowns are necessary.

P160683



Stago Fibre-Optic Duct

A dynamic and durable carrier

The “White space” is the heart of the Data Centre. The hub where millions of tiny fibre optic cables connect at the speed of light. Constantly On and evolving in pace with increasing demands, impersonating the term “living being”.

The Stago Fibre-Optic Ducts are the carriers of all heavy traffic in the Data Centre. Stable and strong, they are ready to perform. And once mounted, they will last and always be ready to evolve for new, unpredictable demands.

The evolving system

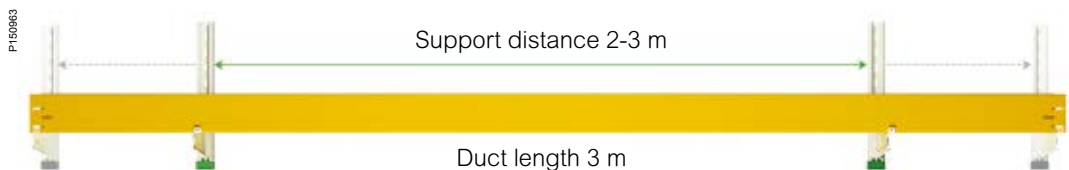
Quick and easy to install, made for continuous development – always avoiding downtime. Swiftly adaptable to changing needs thanks to modular, tool-less accessories. A true “plug & play” concept.

With efficiency in mind

A sturdy and robust steel system that allows long support distances without sagging, thus saving mounting time. And the consoles with one side open for cable management saves cabling and maintenance time. By suiting all ducts, ladders and busbars, the support system is both rational and economical.



The Stago Fibre-Optic Duct is all metal and carries a higher load compared to non-metal systems. This means longer spans, minimised support, no sagging – and an overall more efficient and easily expandable installation.



Ideal rail lengths

The 3-m duct is optimised for fast but non-heavy mounting. Add smart modular covers and support distances up to 3 m and you have a high-speed installation.

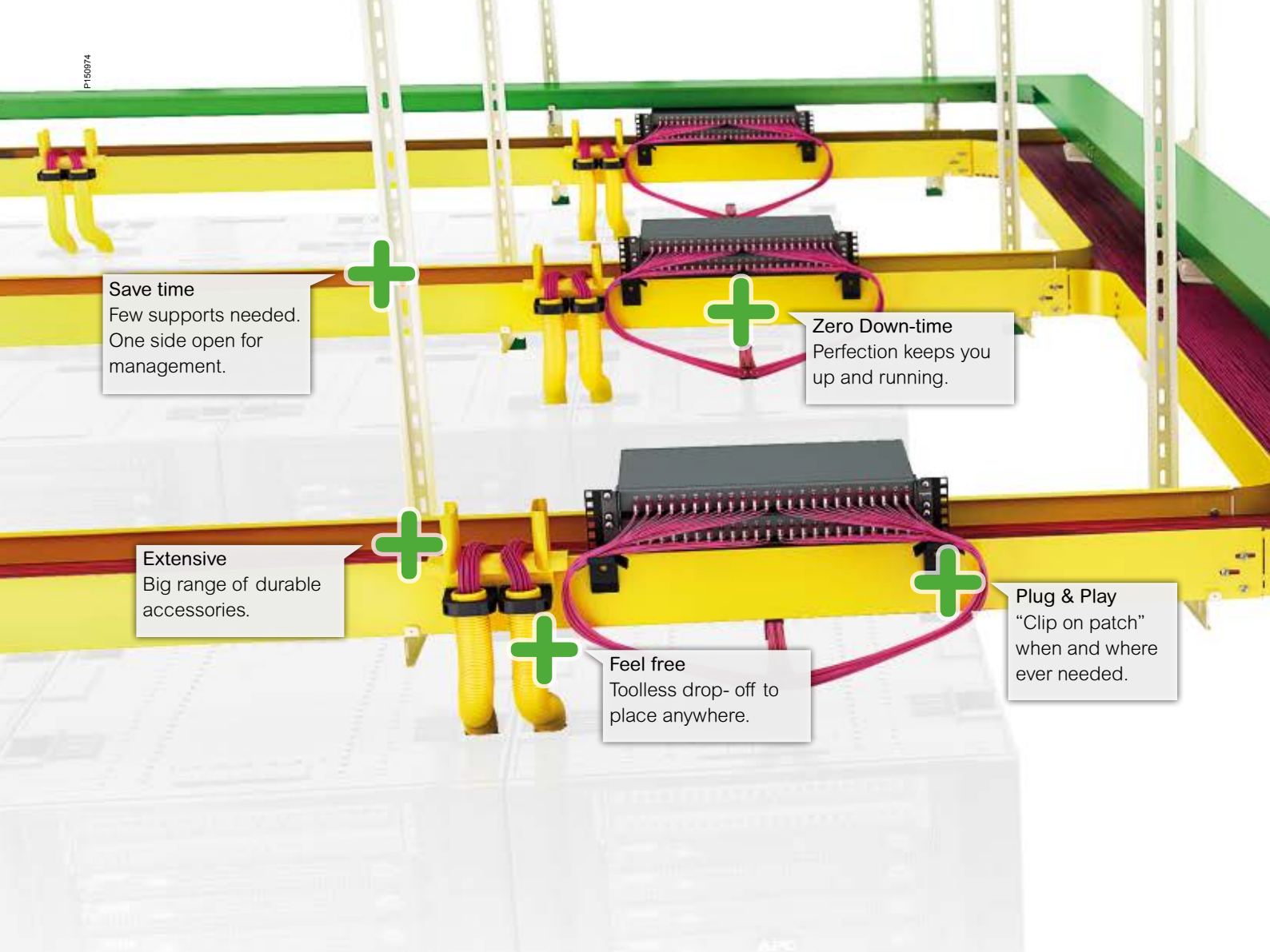
Suitable dimensions

Stago FO ducts are available in heights of 60 or 110 mm, and widths of 100, 200, or 300 mm. All with the same smooth and soft shape.

More than yellow

Standard colour of the ducting is yellow, RAL 1023. Other colours can be delivered on special order.





Save time
Few supports needed.
One side open for management.

Zero Down-time
Perfection keeps you
up and running.

Extensive
Big range of durable
accessories.

Plug & Play
"Clip on patch"
when and where
ever needed.

Feel free
Toolless drop- off to
place anywhere.

Drop-off UDF

Toolless installation – the UDFs ensure safe radius for the FO cables and can be moved sidewise to fit enclosure intake. Easily slid to meet new needs. Available in three sizes.

Dividable tube

The dividable tube provides a very neat and tidy solution for guiding the fibre and UTP down to the cabinet. Black colour is standard, yellow can be delivered on request.

Modular covers

Often the installation requires a cover. As there are different sizes of covers available, all types of installations can be fully covered with maintained accessibility.

Optimised support system

The single pendant support with robust consoles leaves one side open, allowing fast and easy cable management. Suits all types of cable support and busbars.



P150966



P150967



P150968



P150972



P150947 P150946 P150948



P150954 P150956



P150212 P150979



P138754

Stago Fibre-Optic Duct

High-performance management

It's crucial to carefully handle the fibre not to damage it or lose performance. But equally important is that the system is truly future-proof and competent enough to evolve smoothly and reliably.

Every component of the Stago FO Duct range is designed and developed with the same passionate care about both the fibre and the management. No matter how complex the configuration is, our ambition is that you do not have to worry about what is already installed, because it just works. Instead you can enjoy the easiness of further development of the plant to create new opportunities.

All in all, Stago FO Duct system is built to last and develop. Versatile, flexible and durable.



Clip-on panel bracket

The tool-less patch panel attachment with clip-on-top significantly reduces down-time.



Clip-on patch panel

Handy mini-patch. Six keystone footprints for UTP and FO. Space-saving and scalable.



P150972



P150151



P150152

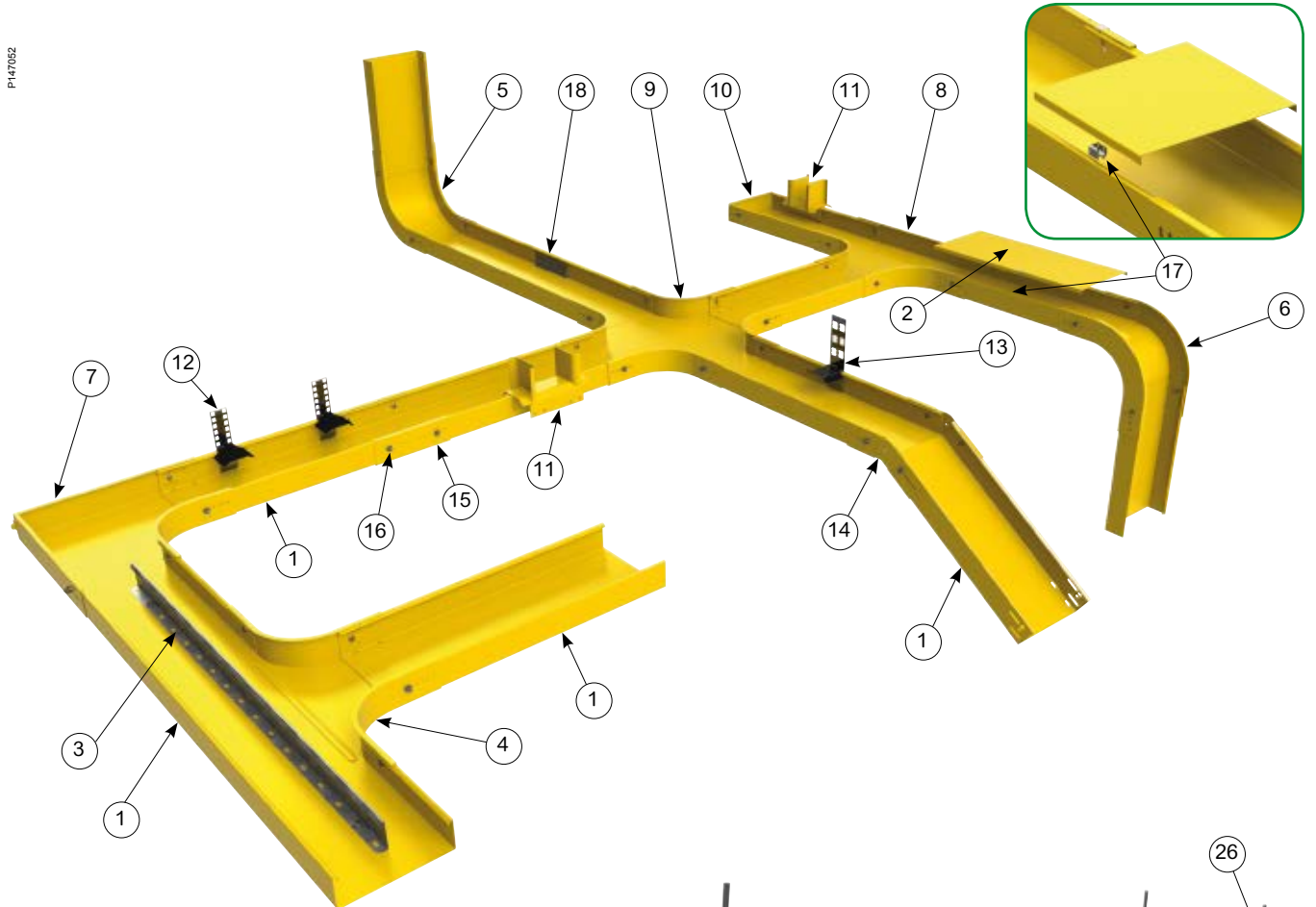


> Stago Fibre-
Optic Duct

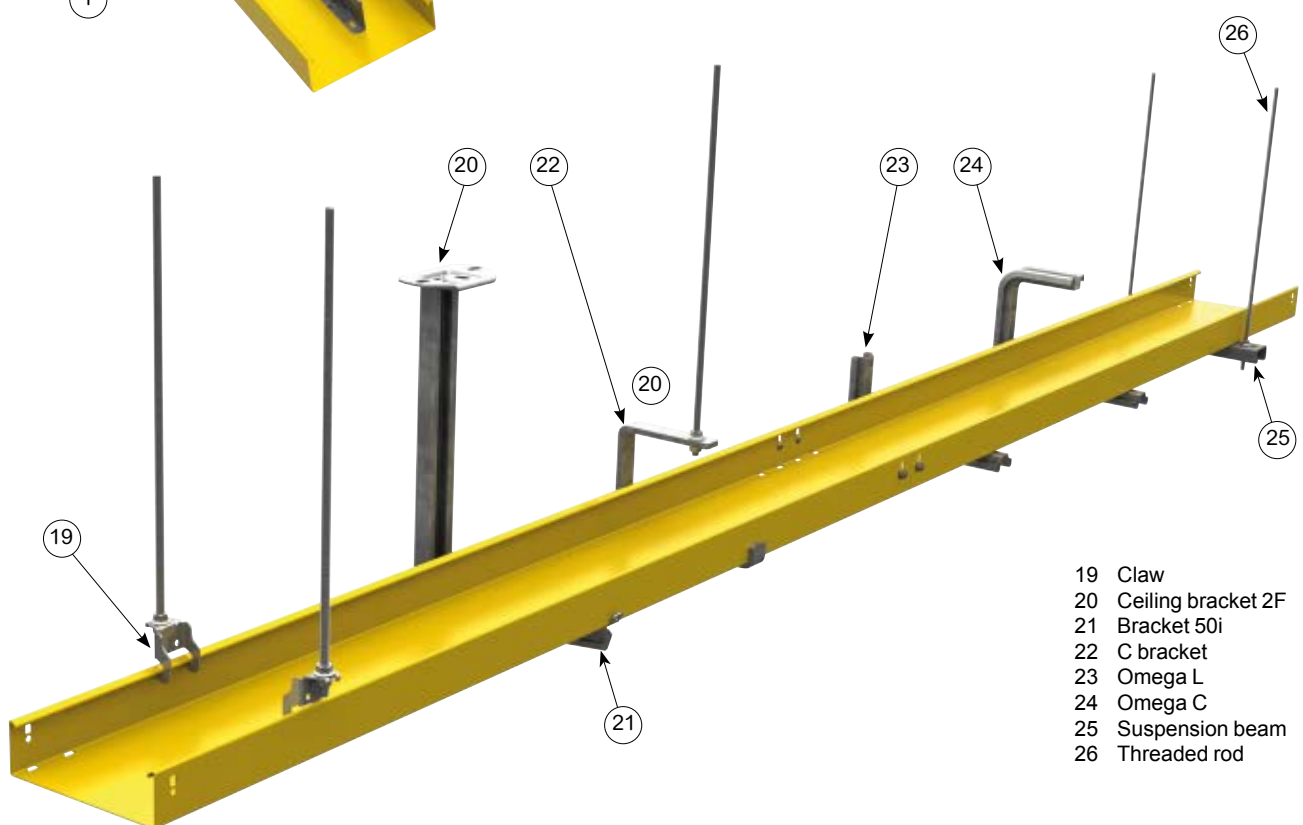
Fibre-Optic
Duct system

- | | | | |
|--------------------|------------------|----------------------------|------------------------------|
| 1 Fibre-Optic Duct | 6 External riser | 11 Drop-off UDF | 15 External coupler |
| 2 Duct cover | 7 90° Bend | 12 Patch panel bracket set | 16 Bolt set (M6) |
| 3 Separation wall | 8 T-piece | 13 RJ45 bracket | 17 Cover clamp |
| 4 Branching piece | 9 X-piece | 14 Hinge coupler | 18 Internal coupler (unlock) |
| 5 Internal riser | 10 End piece | | |

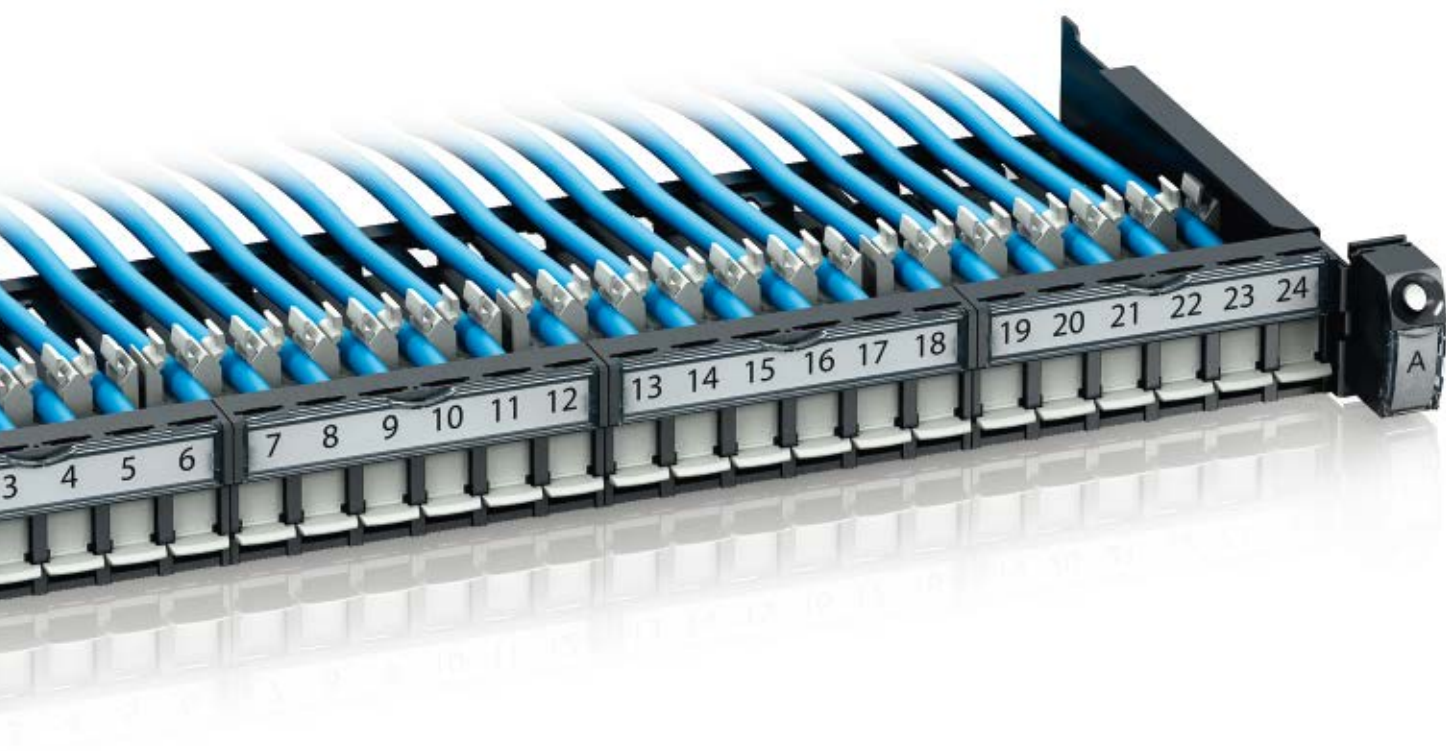
P147092



P146812



- | |
|-----------------------|
| 19 Claw |
| 20 Ceiling bracket 2F |
| 21 Bracket 50i |
| 22 C bracket |
| 23 Omega L |
| 24 Omega C |
| 25 Suspension beam |
| 26 Threaded rod |










Actassi copper solution

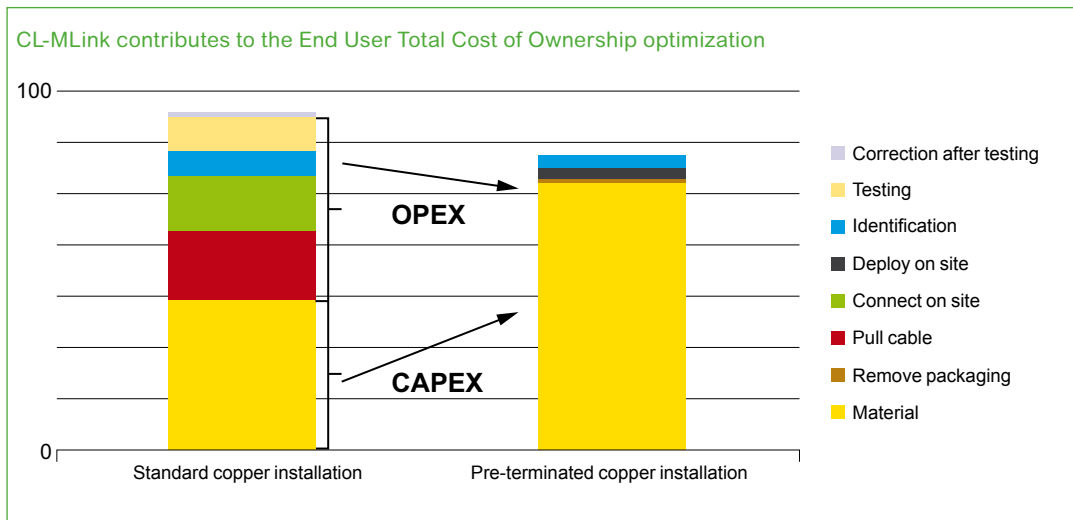
Pre-terminated solution CL-MLink	64
Actassi S-One RJ45 connectors.....	68
Actassi copper cables.....	69
CL-MNC Copper LAN cables.....	72
CL-MX Copper LAN cables	74
CL-MNC Copper patch cords	75
19-C Copper panels	76
19-C Copper panels, high-density	77
19-C Cable management and accessories.....	78
19-C Power panels.....	79



Actassi pre-terminated copper bundle solutions

One product range to fit every need

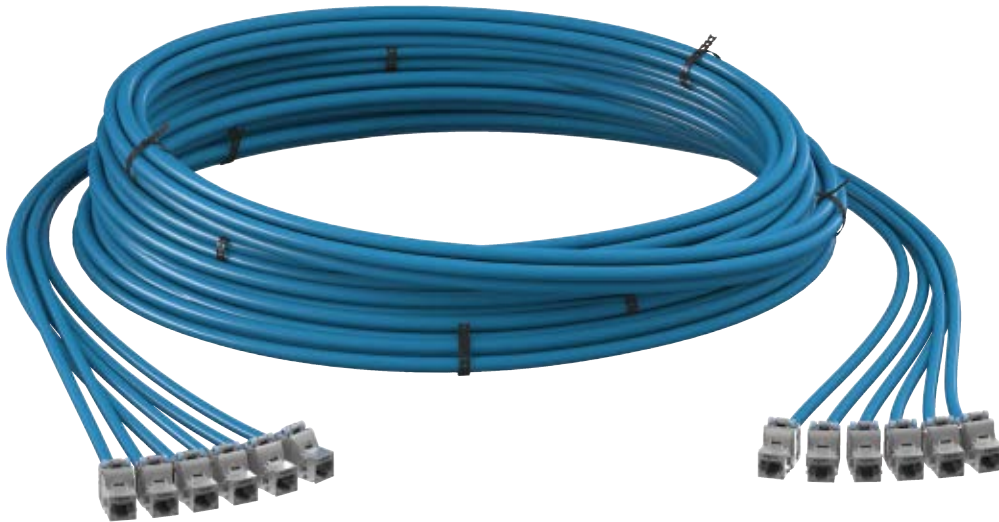
Actassi standard offer	Actassi CL-MLink cables
<ul style="list-style-type: none"> ■ In buildings: from technical room to workspace ■ In data centers: from rack to rack 	
<p>Components assembled by customer</p> <ul style="list-style-type: none">  ■ LAN copper cables  ■ RJ45 Connectors  ■ CP-Links  ■ Copper patch cords 	<p>Schneider Electric pre-assembled components for customer</p> <ul style="list-style-type: none">  <p>Female-Female:</p> <ul style="list-style-type: none"> ■ S-One to S-One ■ S-One DPM to S-One DPM  <p>Female-Male:</p> <ul style="list-style-type: none"> ■ S-One to RJ45 plug ■ S-One DPM to RJ45 plug  <p>Male-Male:</p> <ul style="list-style-type: none"> ■ RJ45 plug to RJ45 plug
Cable cut on site	Pre-assembled with custom cable length



CL-MLink contributes to OPEX reduction

Answering high reliability and speed deployment needs

Actassi CL-MLink is Schneider Electric's new solution for buildings and data centre applications. It delivers the features and functionality necessary to meet the unique challenges and requirements of these demanding environments.



High security for your network

- > Complete plug & play systems
- > Expertise: 100 % pre-assembled and 100 % pre-tested by Schneider Electric
- > 10G performance
- > Pre-term links with Schneider Electric warranty
- > Available in Cat 6 and Cat 6A, shielded and unshielded

Costs and time savings

- > Actassi CL-MLink's target is zero downtime. The pre-assembled cable with Actassi S-One connectors enable a speedy deployment and reduce labor costs by saving on installation time compared to standard copper installations
- > Increase overall efficiency and avoid late penalties at your construction site
- > Save on installation time with custom labels on each port that identify the building, floor, cabinet or office number

Scalable and adaptable

- > Increase flexibility in network offices
- > Pay as you grow
- > Scalability with consolidation points
- > Custom cable lengths adjust to end user needs
- > Delivered in step with site evolution

Time secured for installation on site

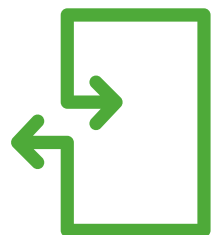
- > 8x faster installation compared to standard copper offer. Save connection time on site
- > Delivery secured
- > Links offer fast and easy deployment that reduces human intervention on site

An end-to-end network installation

- > Benefit from partnering with one supplier. Access the larger Schneider Electric offer for BMS, UPS, Cooling, CMS
- > Solutions for a broad range of projects and applications
- > Digital offer selection guides

Energy efficient thanks to "Green environment"

- > Packaging reduced by 90 %
- > Custom cable lengths reduce waste



Plug & Play copper bundle solution





Pre-terminated bundles are manufactured according to your requirements with the components pictured below. Configurations are introduced on the following pages. To select the reference and links, use the configurator available at:

<http://www.schneider-electric.com/en/product-range-selector/61003-actassi-foreurope/?filter=business-5-installation-systemsand-control&parent-category-id=3800>

> Connectors

Type	UTP	UTP DPM	STP	STP DPM
Category	Cat 6	Cat 6	Cat 6	Cat 6
	P1121212	P124007	P121215	P124010

> Cables

Type	U/UTP	F/UTP	S/FTP	S/FTP
Category	Cat 6	Cat 6	Cat 6 / Cat 6A	Cat 6A
AWG	23	24	26	23
Color	Green	Green	White	Blue
Euroclass	D _{CA} (LSZH)	D _{CA} (LSZH)	C _{CA} (LSFRZH)	C _{CA} (LSFRZH)
	P110559	P120018	P123554	P120021

> Aggregation




Choose between two aggregations:






- With rapstrap for buildings and data centers applications.
- Rapstrap and a black plastic braided sheath at each female extremity for data center applications.



	Rapstrap + Black plastic braided sheath	Rapstrap
	P146892 + P146894	P146894
Female-Female	P146872	P146892
Female-Male	P146873	P146893
Male-Male		P146874

The black plastic braided sheath is a reliable aggregation for data center which offers protection for your female connectors.


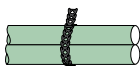
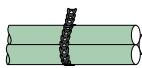
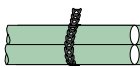
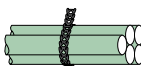

> Configurations

	Female - Female	Female - Male	Male - Male
P146881		P146880 	P146879 

	UTP	UTP DPM	STP	STP DPM	UTP / STP
	Cat 6A	Cat 6A	Cat 6A	Cat 6A	Cat 6 / Cat 6A
P121213		P124006 	P121216 	P124009 	P146869 

	U/UTP	F/FTP
	Cat 6A	Cat 6A
	23	23
	Blue	Blue
	D _{CA} (LSZH)	D _{CA} (LSZH)
P130057		P120021 

> Links

	1 cable	2 cables	3 cables	4 cables	6 cables	12 cables
P122481		P122482 	P122483 	P146878 	P122484 	P122485 

Actassi S-One RJ45 connectors

Actassi S-One RJ45 connectors

- Performance category: Cat 6_A, shielded.
- Material: Shielded in zamak.
- Size: Height 28 mm, width 18 mm, depth 35 mm.
- Applicable standards:
 - ISO/IEC 11801: 2011 Ed2.2, class EA permanent link and channel.
 - IEC 60603-7-51 Cat 6_A connecting hardware.
 - ANSI/TIA-568-C.2 Cat 6_A connecting hardware.
- One-piece design and U-shaped cable entry.
- Tool-less IDC termination.
- Earthing: Metallic, 360° self-adjusting, plus drain wire contact.
- Operational temperature range: -40°C to + 70°C.

S-One C6_A – Cat 6_A

Description	Qty/pack	Ref. No
RJ45 Connector Cat 6 _A Shielded	12	VDIB1772XB12
RJ45 Connector Cat 6 _A Shielded	96	VDIB1772XB96

P121216



Go to the general catalogue for the complete offer!



PoE+
The Actassi S-One connector is now certified and fully compliant with the PoE+ standards by Delta, allowing transport of up to 30 W in the data cable.



Every part in our Actassi range is certified to deliver what we claim they will. The Actassi S-One components are produced in Europe and fully compliant with ISO/IEC 11801: 2011 Ed2.2 for Cat 6_A, so you can always count on an outstanding performance and reliability.

Actassi copper cables



CL-MNC offer

High-end copper LAN cables for performances from category 6 to category 7_A 1000 MHz. Exceeding international standards by 3 dB minimum on NEXT. Full Delta certification for components.



CL-MX offer

Exclusively designed LAN copper cables for category 6_A with a patented single-foil metallic Xfiller, providing high performance and reliable shielded installations. Exceeding international standards by 20 dB on NEXT. Full Delta certification for components.

Actassi offer overview

Type of shielding	Performances	
	Cat6 _A	Cat7 _A
S/FTP		CL-MNC**
F/FTP	CL-MNC CL-MX	CL-MNC
U/FTP	CL-MNC	
F/UTP	CL-MNC	

* Available with PVC or LSZH jacket material.

** Available with LSZH or LSFRZH (LSZH + improved Fire Resistance) sheath material.

Cable standardisation

X/X TP

- TP= Twisted Pair
- F= Foil screened, U=Unscreened
- F=Foil screened, S=Braid screened, SF=Braid & Foil screened, U=Unscreened

[Go to the general catalogue for the complete offer!](#)

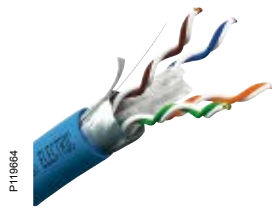
Actassi copper cables

Some important advantages



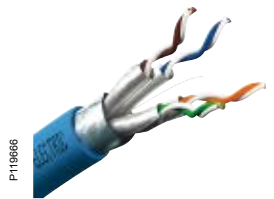
CL-MX patented metallic crossfiller

New and patented metallic crossfiller design of the CL-MX LAN copper cable, providing superior shielding, faster installations and increased efficiency.



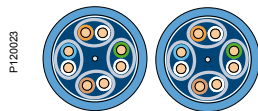
CL-MNC crossfiller with optimized design and micro-blades

With an optimized design and specific micro-blades, you will have better performances in NEXT and ELFEXT, and a better resistance to the mechanical constraints.



CL-MNC, CL-MX conductivity

For the whole offer, the conducting side of the shield is turned outwards. Thus, there is no need to turn the shield inside out before applying the connector to have a good conductivity. You will gain time during installation, there will be no destruction of the shield and you will get very good shielding.



CL-MNC, CL-MX dual cables

In order to facilitate cable laying, the majority of our cables are available in dual version. Only one operation to install two cables.

Certificates

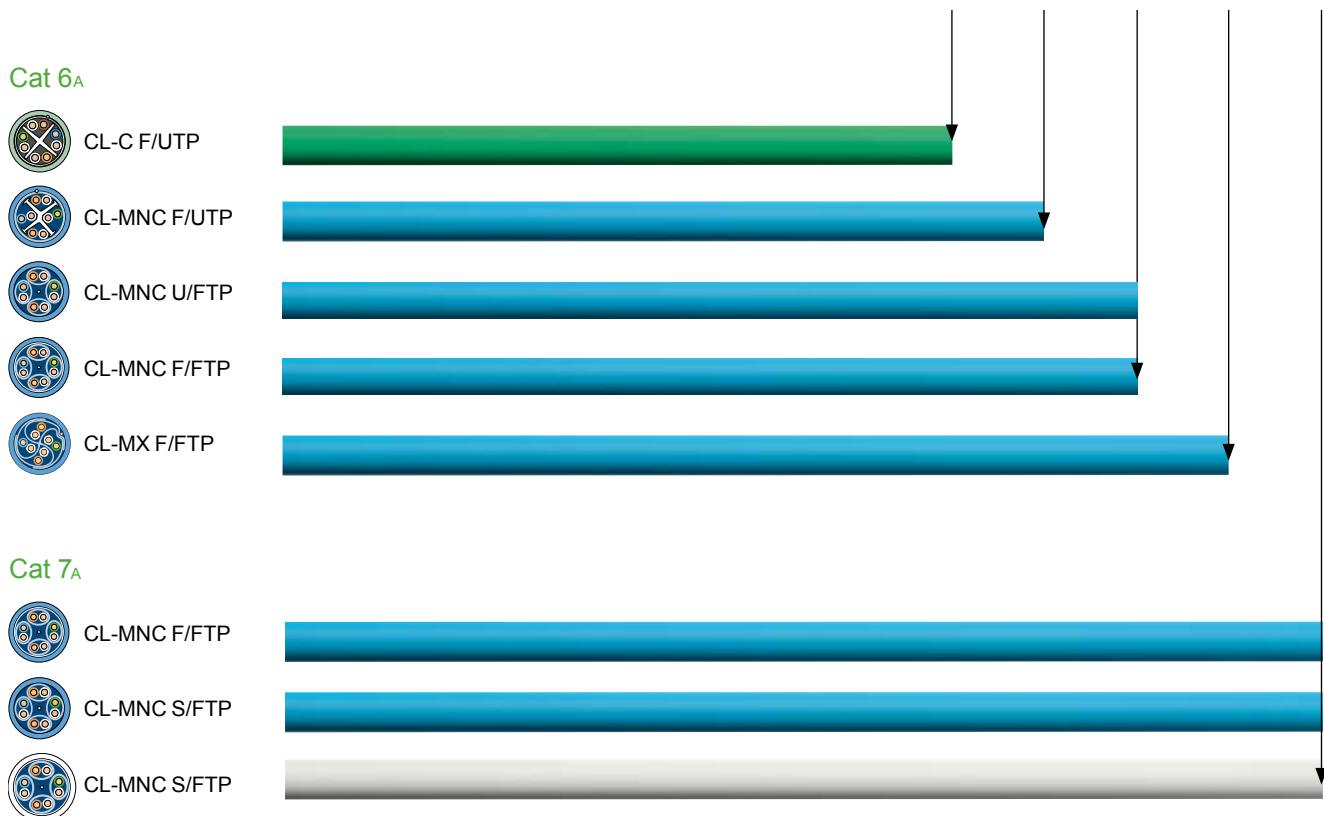
All LAN cables from Category 6 are certified at a component level by the independent third-party laboratory Delta. Certificates are regularly updated to be compliant to the latest and highest international standards.



Actassi copper cables

Performances

	Frequency (MHz)		500		1000
	500	1000	500	1000	1000
Attenuation (dB)*	45.3	45.3	45.3	46.0	61.9
NEXT (dB)*	34.8	34.8	54.8	82.7	60.4
ACR-F (dB)*	14	17	24	36.7	35.3
Propagation speed (%c)	70	70	82	82	78



* Nominal characteristics given for 100 metres at maximum frequencies:
500 MHz for category 6_A, 1000 MHz for category 7_A.

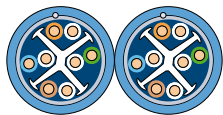
P119664



P93171



P120022



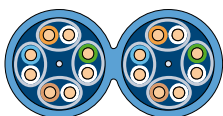
P119665



P120021



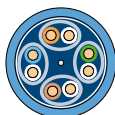
P96671



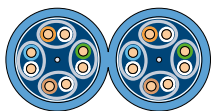
P119666



P120023



P96659



CL-MNC Category 6A Copper LAN cables

CL-MNC Cat 6A F/UTP

Specifications

- 100 ohms, 550 MHz, AWG23, 4 pairs and 2x4 pairs with overall screen. Specific cross filler to organize the pairs
- NVP = 70 %
- Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13 W or 25 W

Performances

- Compliant to EN 50173-1, ISO/IEC 11801: 2011 Ed2.2, IEC 61156-5 Ed2 and Draft EN 50288-10-1 standards

NEXT	Nominal	Standard IEC
550 MHz	40 dB	> 34.8 dB

Use

- Network cabling systems for category 6A voice & data applications. High data rates transmission: 10 Gigabit Ethernet, Gigabit Ethernet, 10/100 BaseT.

Type	Weight	Diameter	Sheath	Cond/Length	Ref. No
4 pair cable	53 kg/km	7.8 mm	LSZH	500 m	VDIC63X218
				1000 m	VDIC63X318
2x4 pair cable	106 kg/km	7.8x16.6 mm	LSZH	500 m	VDIC63X228

CL-MNC Cat 6A U/FTP

Specifications

- 100 ohms, 550 MHz, AWG23, 4 pairs and 2x4 pairs with individual screen
- NVP = 80 %
- Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13 W or 25 W

Performances

- Compliant to EN 50173-1, ISO/IEC 11801: 2011 Ed2.2, IEC 61156-5 Ed2 and Draft EN 5028810-1 standards

NEXT	Nominal	Standard IEC
550 MHz	67dB	> 34.8 dB

Use

- Network cabling systems for category 6A voice & data applications. High data rates transmission: 10 Gigabit Ethernet, Gigabit Ethernet, 10/100 BaseT.

Type	Weight	Diameter	Sheath	Cond/Length	Ref. No
4 pair cable	57 kg/km	8.3 mm	LSZH	500 m	VDIC62X218
				1000 m	VDIC62X318
2x4 pair cable	114 kg/km	8.3x17 mm	LSZH	500 m	VDIC62X228

CL-MNC Cat 6A F/FTP

Specifications

- 100 ohms, 500 MHz, AWG23, 4 pairs and 2x4 pairs with individual screen and overall screen
- NVP = 80 %
- Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13 W or 25 W

Performances

- Compliant to EN 50173-1, ISO/IEC 11801: 2011 Ed2.2, IEC 61156-5 Ed2 and Draft EN 5028810-1 standards

NEXT	Nominal	Standard IEC
500 MHz	67dB	> 34.8 dB

Use

- Network cabling systems for category 6A voice & data applications. High data rates transmission: 10 Gigabit Ethernet, Gigabit Ethernet, 10/100 BaseT.

Type	Weight	Diameter	Sheath	Cond/Length	Ref. No
4 pair cable	57 kg/km	8.3 mm	LSZH	500 m	VDIC64X218
				1000 m	VDIC64X318
2x4 pair cable	114 kg/km	7.9x16.8 mm	LSZH	500 m	VDIC64X228

P119686



CL-MNC Category 7_A Copper LAN cables

CL-MNC Cat 7_A F/FTP

Specifications

- 100 ohms, 1000 MHz, AWG23, 4 pairs and 2x4 pairs with individual screen and overall screen, PiMF construction
- NVP = 80 %
- Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13 W or 25 W

Performances

- Compliant to EN 50173-1, ISO/IEC 11801: 2011 Ed2.2, IEC 61156-5 Ed2 and Draft EN 5028810-1 standards

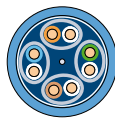
NEXT	Nominal	Standard IEC
1000 MHz	60.4 dB	> 60.4 dB

Use

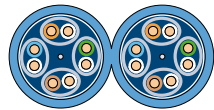
- Network cabling systems for category 7_A voice & data applications. High data rates transmission: 10 Gigabit Ethernet, Gigabit Ethernet, 10/100 BaseT.

Type	Weight	Diameter	Sheath	Cond/Length	Ref. No
4 pair cable	57 kg/km	7.9 mm	LSZH	500 m 1000 m	VDIC648218 VDIC648318
2x4 pair cable	106 kg/km	7.9x16.8 mm	LSZH	500 m	VDIC648228

P120023



P06659



P119880



CL-MNC Cat 7_A S/FTP

Specifications

- 100 ohms, 1000 MHz, AWG23, 4 pairs and 2x4 pairs with individual screen and metallic braid, PiMF construction.
- NVP = 80 %
- Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13 W or 25 W

Performances

- Compliant to EN 50173-1, ISO/IEC 11801: 2011 Ed2.2, IEC 61156-5 Ed2 and Draft EN 5028810-1 standards

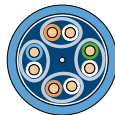
NEXT	Nominal	Standard IEC
1000 MHz	60.4 dB	> 60.4 dB

Use

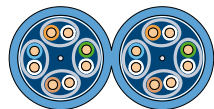
- Network cabling systems for category 7_A voice & data applications. High data rates transmission: 10 Gigabit Ethernet, Gigabit Ethernet, 10/100 BaseT.

Type	Weight	Diameter	Sheath	Cond/Length	Ref. No
4 pair cable	57 kg/km	7.9 mm	LSZH	500 m 1000 m	VDIC658218 VDIC658318
2x4 pair cable	114 kg/km	8.3x17 mm	LSZH	500 m	VDIC658228

P120023



P06659



P123503



CL-MNC Cat 7_A S/FTP

Specifications

- 100 ohms, 1000 MHz, AWG23, 4 pairs and 2x4 pairs with individual screen and metallic braid, PiMF construction.
- NVP = 80 %
- Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13 W or 25 W
- Fire retardant properties according to IEC 60332-3C, NFC32070 2.1, NFC32070 2.2

Performances

- Compliant to EN 50173-1, ISO/IEC 11801: 2011 Ed2.2, IEC 61156-5 Ed2 and Draft EN 50288-10-1 standards

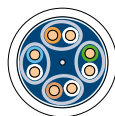
NEXT	Nominal	Standard IEC
1000 MHz	60.4 dB	> 60.4 dB

Use

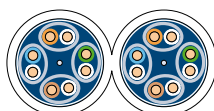
- Network cabling systems for category 7_A voice & data applications. High data rates transmission: 10 Gigabit Ethernet, Gigabit Ethernet, 10/100 BaseT.

Type	Weight	Diameter	Sheath	Cond/Length	Ref. No
4 pair cable	57 kg/km	7.9 mm	LSFRZH	1000 m	VDIC658318F01
2x4 pair cable	114 kg/km	7.9x16.8 mm	LSFRZH	500 m	VDIC658228F01

P123544



P123565



P130513



CL-MX Category 6A Copper LAN cables

CL-MX Cat 6_A F/FTP

Specifications

- 100 ohms, 550 MHz, AWG23, 4 pairs and 2x4 pairs with patented single-foil metallic crossfiller design
- Superior EMC performances: Grade 1 Transfer Impedance
- Quick and simple twin removal actions for the sheath and the shield
- NVP = 82 %
- Fire retardant properties for LSFRZH version according to IEC 60332-3C, NFC32070 2.1, NFC32070 2.2
- Compatible with PoE (Power over Ethernet) and PoEP (Power over Ethernet Plus) which allow to supply equipments (IP phone, camera, WIFI hotspot...) until 13 W or 25 W

Standards

- Compliant to EN 50173-1, ISO/IEC 11801: 2011 Ed2.2, IEC 61156-5 Ed2 and Draft EN 50288-10-1 standards

NEXT	Nominal	Standard IEC
550 MHz	67 dB	> 34.8 dB

Use

- Network cabling systems for category 6_A voice & data applications. High data rates transmission: 10 Gigabit Ethernet, Gigabit Ethernet, 10/100 BaseT.



Type	Weight	Diameter	Sheath	Cond/Length	Ref. No
4 pair cable	55 kg/km	7.8 mm	LSZH	500 m	VDIC68X218
4 pair cable	55 kg/km	7.8 mm	LSZH	1000 m	VDIC68X318
2x4 pair cable	110 kg/km	7.8 mm x 16.8	LSZH	500 m	VDIC68X228
4 pair cable	65 kg/km	8.2 mm	LSFRZH	500 m	VDIC68X218F01
4 pair cable	65 kg/km	8.2 mm	LSFRZH	1000 m	VDIC68X318F01
2x4 pair cable	130 kg/km	8.2 mm x 17.4	LSFRZH	500 m	VDIC68X228F01

Go to the general catalogue for the complete offer!

P130166

CL-MNC Patch cords

Application

Ensures and gives transmission of data networks

Performances

- High performance, standard & system warranty
- Compliant with: ISO / IEC 11801 Ed 2.2
- Full latest standards Delta certified - EN 50173ed.3, EIA/TIA 568 - C.2, IEC 61935-2

Specifications

- Low Smoke Zero Halogen (LSZH), 4 pairs, 100 ohms, pre-wired and tested in factory, with light grey colour design (RAL 7035)
- Connectors with grey overmoulding
- Snag-free connection to protect the plug-clip from breakage
- Network identification thanks to coloured clips
- Covers all needs for shielded and unshielded versions
- Individual packaging

Patch cord S/FTP category 6_A

Specifications

- 550 MHz, outer sheath LSZH.

Type	Colour of sheath	Length (m)	Ref. No
4 pair	Grey	1.0	VDIP185X46010
		2.0	VDIP185X46020
		3.0	VDIP185X46030
		5.0	VDIP185X46050
		10.0	VDIP185X46100

Coloured clips

Description	Packaging	Colour (m)	Ref. No
Coloured clips	10	Blue	VDIP1811
		Yellow	VDIP1812
		Green	VDIP1813
		Red	VDIP1814

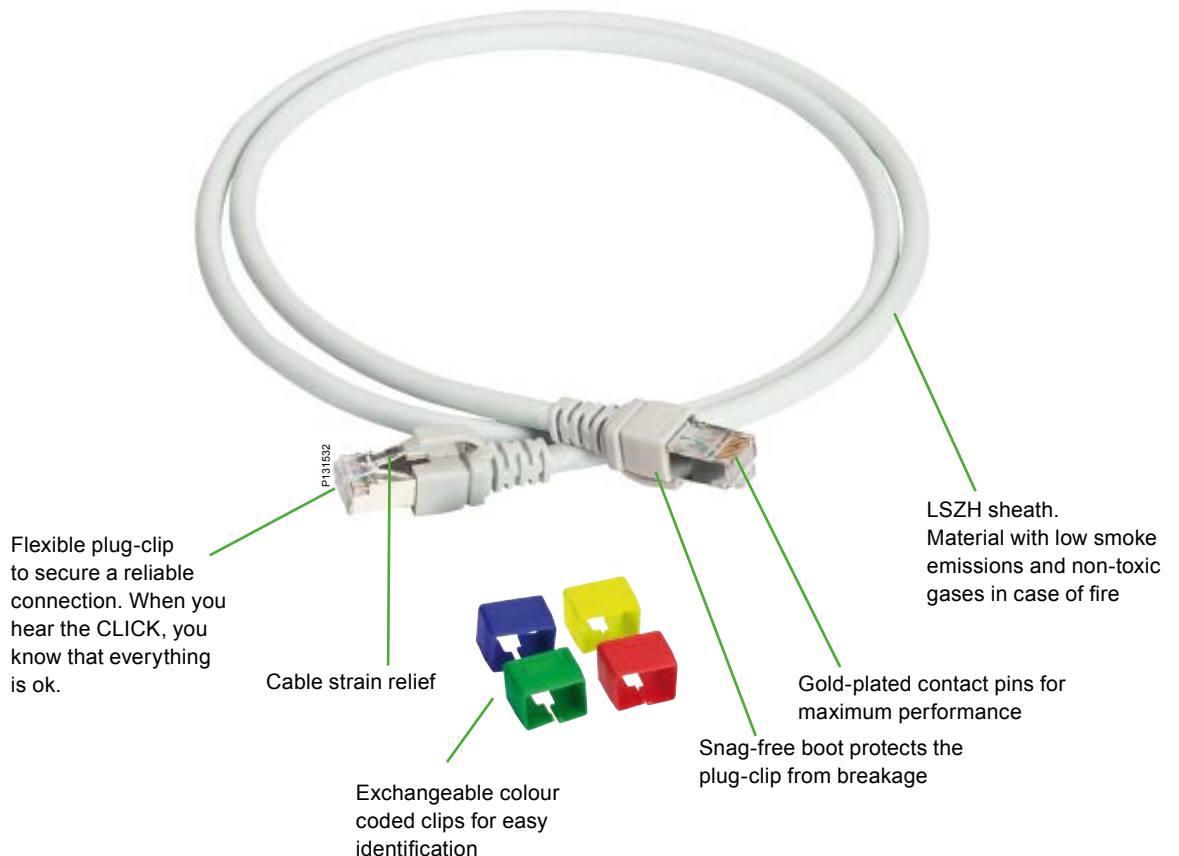
P135131



P131532



Go to the general catalogue for the complete offer!



Empty sliding panel 1U 24 ports

- Empty sliding 19" copper panel (without connectors).
- 1U height.
- 24 RJ45 ports
- 1 Quick Fix function on both sides to allow a simple, quick fixing position and sliding feature.
- Panels equipped with 24 shutters in light grey, 4 label holders, and one cable manager at the rear
- Metal sheet: Thickness 1.2 mm. Dark grey RAL 7016
- Plastic parts in PA66 GF20 or PA6
- Simple clicking connectors for mounting
- Automatic earthing with the pre-equipped bus bar.

Evolution version

Description	Ref. No
Empty panel 1U FTP/STP 24 ports	VDIG112241F



Equipped sliding panel 1U 24 ports

- Equipped sliding 19" copper panel (with connectors, not mounted).
- 1U height
- 24 RJ45 ports
- 1 Quick Fix function on both sides to allow a simple, quick fixing position and sliding feature
- Panels equipped with 24 shutters in light grey, 4 label holders, and one cable manager at the rear
- Metal sheet: Thickness 1.2 mm. Dark grey RAL 7016
- Plastic parts in PA66 GF20 or PA6
- Simple clicking connectors for mounting
- Automatic earthing with the pre-equipped bus bar.

Evolution version: Pre-equipped with 24 RJ45 S-One connectors (not mounted) and 24 light grey shutters, 4 label holders, 1 rear cable organizer

Description	Ref. No
Category 6a Equipped panel 1U with 24 RJ45 Cat 6a STP	VDIG118241BX0



Empty sliding panel for DPM connectors 1U 24 ports

- Empty sliding 19" copper panel (without connectors)
- 1U height
- 24 RJ45 ports
- 1 Quick Fix function on both sides to allow a simple, quick fixing position and sliding feature
- Panels equipped with 24 shutters in light grey, 4 label holders, and one cable manager at the rear
- Metal sheet: Thickness 1.2 mm. Dark grey RAL 7016
- Plastic parts in PA66 GF20 or PA6
- Simple clicking connectors for mounting
- Automatic earthing with the pre-equipped bus bar.

Evolution version

Description	Ref. No
Empty panel for DPM connectors 1U FTP/STP 24 ports	VDIG111241F



Go to the general catalogue for the complete offer!

19-C Copper panels, high-density Range

Empty flat panel for connectors in angle, 1U 24 ports

- 1U height
- 24 RJ45 ports
- Allows high-density copper ports installation. Connectors are positioned in angle to guide the patch-cords to the vertical sides of the enclosure. The installation of copper ports is maximised as there is no need to consume rack units to mount horizontal guiding panels
- Recommended mounting with vertical side ring for vertical management of the patch-cords (reference VDIM189412)
- 1 Quick Fix function on both sides to allow a simple, quick fixing position
- Equipped with a label holder and a cable manager at the rear
- The cable manager can rotate and be removed to ease the accessibility
- Metal sheet: Thickness 1.2 mm. Dark grey RAL 7016
- Plastic parts in PA66 GF20 and PC
- Simple clicking the connectors for mounting
- Automatic earthing with pre-equipped bus bar

Empty flat 19" copper panel for connectors in angle (delivered without connectors)

Description	Ref. No
Empty flat panel for connectors in angle 1U FTP/STP 24 ports	VDIG328241B



Equipped flat panel with connectors in angle, Cat 6A STP, 1U 24 ports

- 1U height
- 24 RJ45 ports
- Allows high-density copper ports installation. Connectors are positioned in angle to guide the patch-cords to the vertical sides of the enclosure. The installation of copper ports is maximised as there is no need to consume rack units to mount horizontal guiding panels
- Recommended mounting with vertical side ring for vertical management of the patch-cords (reference VDIM189412)
- 1 Quick Fix function on both sides to allow a simple, quick fixing position
- Equipped with a label holder and a cable manager at the rear
- The cable manager can rotate and be removed to ease the accessibility
- Metal sheet: Thickness 1.2 mm. Dark grey RAL 7016
- Plastic parts in PA66 GF20 and PC
- Simple clicking the connectors for mounting
- Automatic earthing with pre-equipped bus bar

Equipped flat 19" copper panel with connectors in angle (connectors included, not mounted)

Description	Ref. No
Equipped flat panel with connectors in angle 1U with 24 RJ45 Cat 6A STP	VDIG328241BX0



Empty flat panel for DPM connectors in angle, 1U 24 ports

- 1U height
- 24 RJ45 ports
- Allows high-density copper ports installation. Connectors are positioned in angle to guide the patch-cords to the vertical sides of the enclosure. The installation of copper ports is maximised as there is no need to consume rack units to mount horizontal guiding panels
- Recommended mounting with vertical side ring for vertical management of the patch-cords (reference VDIM189412)
- 1 Quick Fix function on both sides to allow a simple, quick fixing position
- Equipped with a label holder and a cable manager at the rear
- The cable manager can rotate and be removed to ease the accessibility
- Metal sheet: Thickness 1.2 mm. Dark grey RAL 7016
- Plastic parts in PA66 GF20 and PC
- Simple clicking the connectors for mounting
- Automatic earthing with pre-equipped bus bar

Empty flat 19" copper panel for DPM connectors in angle (delivered without connectors)

Description	Ref. No
Empty flat panel for DPM connectors in angle 1U FTP/STP 24 ports	VDIG321241B



19-C Cable management and accessories

Range



Patch cord guiding panels

- Patch cord guiding panel
- 1U, 2U
- 1 Quick Fix function on both sides to allow a simple, quick fixing position
- 4 openable rings
- Patch cord holder integrated inside the ring for opened position.

Description

Patch cord guiding panel 1U with 4 openable rings
Patch cord guiding panel 2U with 4 openable rings

Ref. No

VDIG188141
VDIG188142

Side rings for vertical management

- Rings for vertical management of patch cords, in horizontal and vertical position
- Openable
- For racks 800 x 800 mm and 600 x 600 mm
- Can be fixed on each side of any QuickFix system panel or guiding panel
- Large capacity up to 48 cords.



Description

Horizontal ring for vertical management of patch cords, 1U, for rack 800x800 mm
Vertical ring for vertical management of patch cords, 2U, for rack 800x800 mm
Ring for vertical management of patch cords, using self-grip strip, for rack 600x600 mm

Ref. No

VDIM189112
VDIM189412
VDI M189111

Metal blank panel

- 1 Quick Fix function on both sides to allow a simple, quick fixing position.



Description

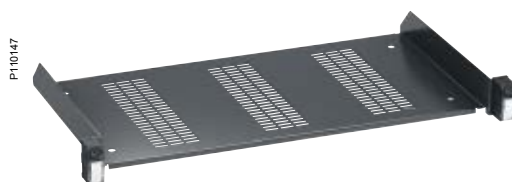
Blank panel 1U

Ref. No

VDIG188021

Metal shelf

- 1 Quick Fix function on both sides to allow a simple, quick fixing position.



Description

Shelf 1U, depth 250 mm, for max weight 15 kgs

Ref. No

VDIG188011



Rack earthing kit

Description

Rack earthing kit, pack of 10 pcs

Ref. No

VDIM48E011



RJ45 shutters

Description

Shutters, blue, pack of 24 pcs
Shutters, yellow, pack of 24 pcs
Shutters, green, pack of 24 pcs
Shutters, red, pack of 24 pcs
Shutters, grey, pack of 24 pcs

Ref. No

VDIM11U241
VDIM11U242
VDIM11U243
VDIM11U244
VDIM11U246

[Go to the general catalogue for the complete offer!](#)

19-C Power panels Range

19" power panel 16 A/250 V

- Profile: 1U height ALU Anodize
- Sockets: 2-pole with earthing contact 16 A/3680 W, AC 250 V, IP20, colour RAL 7016, plastic material: PA6 GF30
- 1 Quick Fix function on both sides to allow a simple, quick fixing position fitted with 3 m length power cord
- Supplied with personalized cable identification labels.

Standard

Description	Ref. No
Power panel 9 x French outlets according to NFC 61314.	VDIG161911
Power panel 9 x Schuko outlets according to DIN 49 440	VDIG161931
Power panel 9 x Danish outlets according to DS/IEC 60884-1	VDIG161941
Power panel 9 x Danish outlets EDB according to DS/IEC 60884-1	VDIG161951



With protected light switch + overvoltage protection

- Short circuit protection 6.5 kA
- Protection level Up 1.5 kV
- Optic signal for function (green)
- Optic signal for defect (orange).

Description	Ref. No
Power panel 7 x French outlets according to NFC 61314.	VDIG164711
Power panel 7 x Schuko outlets according to DIN 49 440	VDIG164731
Power panel 7 x Danish outlets 10 amp. according to DS/IEC 60884-1	VDIG1647411



With circuit breaker/earth leakage 230 V, 16 A, 30 mA

Description	Ref. No
Power panel 6 x French outlets according to NFC 61314	VDIG163611
Power panel 6 x Schuko outlets according to DIN 49 440	VDIG163631
Power panel 6 x Danish outlets 10 amp. according to DS/IEC 60884-1	VDIG1636411



Go to the general catalogue for the complete offer!



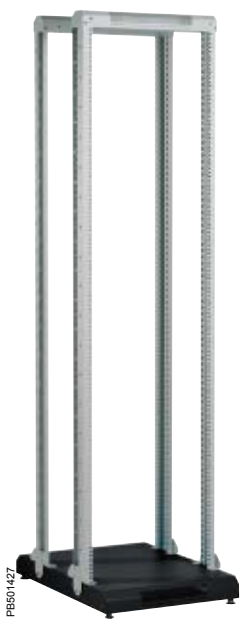
Enclosures for all needs

Patching rack

Patching enclosure

Mixed enclosure

Server enclosure



PB501427



PB501419



PB501631



NetShelter SX_ih

Actassi and NetShelter enclosures

BTR	82
Patching rack	82
VDA	83
Patching enclosure	83
VDS	84
Mixed enclosure	84
NetShelter SX server enclosure and Actassi patching frame	85
Enclosure accessories	86
Actassi VDA/VDS	86

BTR

Patching rack

Open patching applications

Actassi BTR



Heights

- 24U
- 42U.

Applications

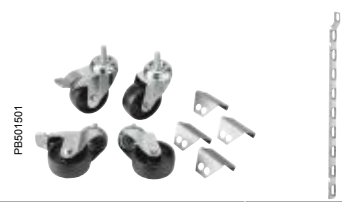
- Patching.

To be made up of

- 1 steel plinth, 600 × 600 mm
- Two 19" uprights, height of 24 or 42U
- 1 steel cross rail delivered with the 19" uprights
- The fixings required for installation delivered with the 19" uprights.

Advantages

- Shorter assembly time
- Simple handling of the unit by a single operator
- Reduced storage space
- Minimum external dimensions
- Quick coupling
- Option of installing handling castors
- Option of installing 19" accessories:
 - Shelves with a depth of 600 mm, ref. **NSYBBF1U40P**, **NSYBBF1U40**, **NSYBBT1U40P**, **NSYBBT1U40** on four 19" uprights
 - Support plates **NSYBF2U25P** and **NSYBF2U40P** on two 19" uprights,
 - Guides **NSYGCA46**, **NSYGCA410** and **NSYGCA1010**
- Acceptable static load: 150 kg
- Certifications: In compliance with the directive RoHs, with the 19" standard IEC 60297-3-100 and EIA-310D.



N° of usable U	Batirack plinth ref.	19" upright and cross-rail kit	Castor ref.	Cable entry trim strips
24U	NSYZUN66BTR	NSYBTR24U	NSYRUFVDA	-
42U	NSYZUN66BTR	NSYBTR42U	NSYRUFVDA	NSYPEPM42UBTR

Go to the general catalogue for the complete offer!

VDA

Patching enclosure

Secured patching applications

Actassi VDA-B



- Designed for circulation applications with switches and routers
- 6 heights: 24U, 29U, 33U, 38U, 42U and 47U
- 2 widths: 600 and 800 mm
- 3 depths: 600, 800 and 1000 mm
- Acceptable static load: 400 kg
- Dynamic load: 250 kg
- Color:
 - Light Grey (RAL 7035) for lining
 - Dark Grey (RAL 7011) for framework
- Ingress Protection: IP20:
 - Object size protected against > 12.5 mm
 - No liquid protected
- Impact Protection: IK08:
 - Impact energy = 5 joules
- Certifications: In compliance with the directive RoHs, with the 19" standard IEC 60297-3-100 and EIA-310D.

Enclosure composition

- Top and bottom frames, mechanically assembled by Torx screws to the vertical structure uprights, thus forming a rigid framework
- Base without blanking plate (see page 65)
- Cut-out roof, closed with a removable blanking plate
- Glazed reversible front door, 4 mm Securit® glass, opening to 180°, 1-point lock with a key n° 333. Hinges on the right as standard
- Rear panel with quick installation and removal, locking by latches
- Side panels with louvres, with quick installation and removal, locking by latches
- Top and bottom side cable glands flush with the structure
- Top and bottom side knock-out areas for cable entry, with a width of 800 mm
- Large opening on the bottom and large knock-out area on the rear for cable entry
- Levelling feet installed
- Two 19" uprights made from treated steel, installed 100 mm back from the front surface and depth-adjustable in steps of 25 mm
- Delivered on a pallet covered with film.

Composition of the rack without side panels

- Exactly the same composition as the above rack, but without the side panels
- Coupling kit not supplied
- In the event of coupling, use the coupling kit (ref. NSYCUNVDA).

VDA-B, RAL 7035 Light Grey



Number of U	Height (mm)	Width (mm)	Depth (mm)	With side panels	Without side panels	19" uprights	Cable-gland trim
42U	2000	600	600	NSYVDA42U66B	NSYVDAC42U66B	NSYBR9F42	-
42U	2000	600	800	NSYVDA42U68B	NSYVDAC42U68B	NSYBR9F42	-
42U	2000	600	1000	NSYVDA42U610B	NSYVDAC42U610B	NSYBR9F42	-
42U	2000	800	600	NSYVDA42U86B	NSYVDAC42U86B	NSYBR9F42	NSYPV42
42U	2000	800	800	NSYVDA42U88B	NSYVDAC42U88B	NSYBR9F42	NSYPV42
42U	2000	800	1000	NSYVDA42U810B	NSYVDAC42U810B	NSYBR9F42	NSYPV42
47U	2200	600	600	NSYVDA47U66B	-	NSYBR9F47	-
47U	2200	600	800	NSYVDA47U68B	-	NSYBR9F47	-
47U	2200	800	600	NSYVDA47U86B	-	NSYBR9F47	NSYPV47
47U	2200	800	800	NSYVDA47U88B	-	NSYBR9F47	NSYPV47

VDS

Mixed enclosure

Patching and server applications

Actassi VDS



- Folded and welded sheet-steel enclosure, textured, RAL 9011 black epoxy-polyester powder paint
- Earth continuity guaranteed, according to the standard
- Allowed air flow above 80 %
- Acceptable static load: 750 kg
- Color:
 - Black (RAL 9011)
- Ingress Protection: IP20:
 - Object size protected against > 12.5 mm
 - No liquid protected
- Impact Protection: IK10:
 - Impact energy = 20 joules
- Certifications: In compliance with the directive RoHs, with the 19" standard IEC 60297-3-100 and EIA-310D.

Enclosure composition

- Top and bottom frames, mechanically assembled by Torx screws to the vertical structure uprights, thus forming a rigid framework
- Base without blanking plate (see page 65)
- Cut-out roof, closed with a blanking plate with dismountable brush gasket
- Reversible microperforated front and rear door, opening to 180°, closure at 2 points with a handle and a key n° 333. Hinges on the right as standard
- Side panels with no louvres, with quick installation and removal, closing by latches
- Top and bottom side cable entries flush with the structure
- Top and bottom side knock-out areas for cable entry, with a width of 800 mm
- Large opening on the bottom and large knock-out area on the rear for cable entry
- Levelling feet installed
- Four 19" uprights made from treated steel, installed 100 mm back from the front plate and depth-adjustable in steps of 25 mm
- Earthing kit installed
- Delivered on a pallet covered with film.

Composition of the rack without side panels

- Exactly the same composition as the above rack, but without the side panels
- Coupling kit not supplied
- In the event of coupling, use coupling kit ref. NSYCUNVDA.

Server rack with and without side panels

Number of U	Ext. dimensions (mm)			With side panels	Without side panels
	Height	Width	Depth		
42U	2000	600	800	NSYVDS42U68N	NSYVDSC42U68N
42U	2000	600	1000	NSYVDS42U610N	NSYVDSC42U610N
42U	2000	800	800	NSYVDS42U88N	NSYVDSC42U88N
42U	2000	800	1000	NSYVDS42U810N	NSYVDSC42U810N



Ventilated:

The front and rear doors are microperforated on the width of the 19" uprights to channel the air flows onto the equipment. They allow above 80 % of air through for optimum ventilation of the live components that equip the 19" rack.

Go to the general catalogue for the complete offer!

NetShelter SX server enclosure and Actassi patching frame

NetShelter SX enclosure for server applications



- Acceptable static load: 1,400 kg
- Black color (RAL 9011)
- Tool-less, zero U accessory channel
- Easily adjustable vertical mounting rails
- Half-height side panels
- Precision cooling system
- Dimensions:
 - Heights: 24U, 42U and 48U
 - Widths: 600 mm and 750 mm
 - Depths: 825 mm, 1070 mm and 1200 mm.

Visit the APC web site for complete information:
<http://www.apc.com/products/category.cfm?id=10>

Actassi 19" overhead patching frame 4U



- 19" frame
- Designed to be mounted in a mesh tray or cable ladder to provide 4U patching positions and to save space in the enclosure below
- 4U height
- In compliance with the directive RoHS and with 19" standards EIA 310-D and IEC 60297-3-100
- Dimensions: 500 x 350 x 160 mm
- Material: Steel AN10130 DC01 painted in Raven Black
- Holds up to 15 kg
- Equipped with two cord managers that secure the bend radius of the cords going down to the enclosure. It includes 4 self-grip strips of 30 cm
- Equipped with a big label holder to facilitate readiness from the ground.

Description

Overhead 19" patching frame 4U

Ref. No

VDIM33174

P133077

PE500684



Plain blanking plate (J1) (K1)

- Fixing on the internal surface of the base or roof
- Can be combined with other types of blanking plates
- Treated sheet steel
- Delivered with the fixings required for installation.

Description	Ref. No
Plain blanking plate	NSYEC440

PE500685



Blanking plate with brush gasket (J2) (K2) (L1)

- Fixing on the internal surface of the base or roof
- Can be combined with other types of blanking plates
- Treated sheet steel
- Delivered with the fixings required for installation.

Dimensions	Ref. No
75 x 400 mm	NSYEC440

PE500687



Blanking plates with or without fans Ø 120 mm (J3) (J4) (L2) (L3)

- Fixing on the internal surface of the base or roof or on a 6U knock-out panel of the reduced rear door
- Equipped with 2 or 3 fans, free flow of 170 m³/h each, 220 V-50/60 Hz, installed wired with terminal board. A 3-m power cord is supplied, installed
- Can be combined with other types of blanking plates
- Treated sheet steel
- Delivered with the fixings required for installation
- Noise level: 34 dB (A)
- To use fans with UK PDU's, order UK adaptor Ref: NSYAPUFRUK.

Description	Ref. No
With 2 fans	NSYECVT2V440

PE501488



1U 19" front panel with ventilation switch and thermostat

- Direct fixing to the 19" rack
- Switch with LED
- Thermostat 0...+60°C, In 5 A/250 V
- Front panel made from RAL 7016 sheet.

Description	Ref. No
RAL 7016	NSYCRTM1UVTG

PE500217



Earthing kit for Actassi VDA / VDS

- Kit for earthing the cladding pieces of the enclosure
 - Assembly on all the doors of the enclosure to comply with standard IEC 62208, Section 9.10 regarding the continuity of the protection circuit
 - Brass and copper lugs
 - Green-yellow PVC insulating sheath.
- Note:** It is up to the installer to make sure earth continuity and the earth connections are guaranteed.

Description	Ref. No
Earthing kit, pack of 10 pcs	NSYCTVDA

PE500189

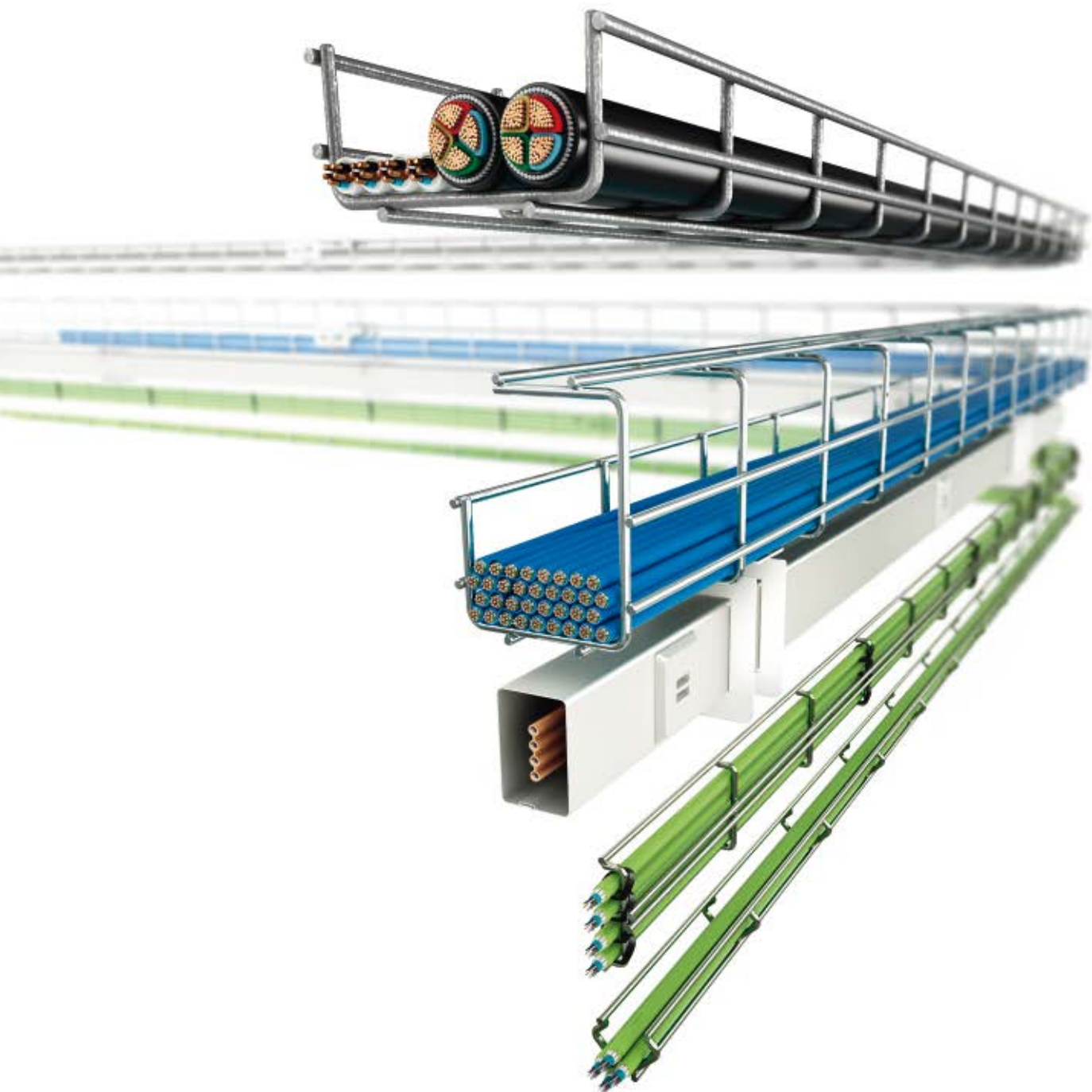


Fixings for 19" rack

- They allow 19" accessories to be mounted
- Caged nut compatible with 8.5 x 8.5 mm and 9.5 x 9.5 mm holes.
- Batch of 50.

Description	Ref. No
M6 screws + washers + nuts	NSYGFR95M65

Go to the general catalogue for the complete offer!



Defem mesh trays

- Steel mesh trays 90
- Electro-zinc 90
- U-Bar support system..... 99

Mesh trays, electro-zinc

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mesh trays, 45, 55 and 60 mm high				
Mesh cable tray, length 2.5 m. Size 75/55 available both made of ϕ 4 and 5 mm wire, see dimension table below. Material: Steel, electro-zinc.				
53/45	45/53/2500	175	7332227011136	1149113
75x4/55	55/75/2500	187	7332227011006	1149100
75x5/55	55/75/2500	290	7332227011105	1149110
120/60	60/120/2500	311	7332227011013	1149101
220/60	60/220/2500	430	7332227011020	1149102
320/60	60/320/2500	546	7332227011037	1149103
422/60	60/422/2500	757	7332227011143	1149114
522/60	60/522/2500	895	7321677886852	1149115
622/60	60/622/2500	1040	7321677886869	1149116
Mesh trays, 110 mm high				
Mesh cable tray, length 2.5 m. Material: Steel, electro-zinc.				
120/110	110/120/2500	430	7332227011044	1149104
220/110	110/220/2500	546	7332227011051	1149105
320/110	110/320/2500	663	7332227011068	1149106
422/110	110/422/2500	895	7332227011075	1149107
522/110	110/522/2500	1044	7332227011082	1149108
622/110	110/622/2500	1083	7332227011099	1149109

Dimension table

Type	A mm	B mm	C mm	D mm	E mm	Ref. No.
Mesh tray 53/45	53	45	4	4	37	1149113
Mesh tray 75x4/55	75	55	4	4	59	1149100
Mesh tray 75x5/55	75	55	5	5	55	1149110
Mesh tray 120/60	120	60	5	5	100	1149101
Mesh tray 220/60	220	60	5	5	200	1149102
Mesh tray 320/60	320	60	5	5	300	1149103
Mesh tray 422/60	422	60	5	6	400	1149114
Mesh tray 522/60	522	60	5	6	500	1149115
Mesh tray 622/60	622	60	5	6	600	1149116
Mesh tray 120/110	120	110	5	5	100	1149104
Mesh tray 220/110	220	110	5	5	200	1149105
Mesh tray 320/110	320	110	5	5	300	1149106
Mesh tray 422/110	422	110	5	6	400	1149107
Mesh tray 522/110	522	110	5	6	500	1149108
Mesh tray 622/110	622	110	5	6	600	1149109

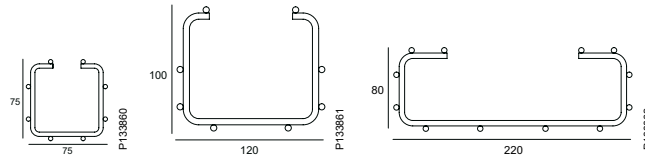
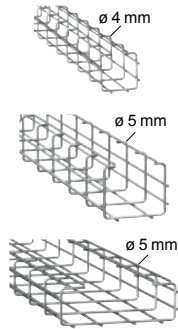
C and G-Mesh trays

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
------	------------------------	----------------------	----------	----------

C-mesh trays

C-shaped mesh cable tray, length 2.5 m, for use where mounting with long support distances (up to 4 metres) are needed.
Material: Steel, electro-zinc.

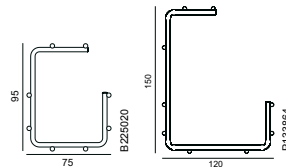
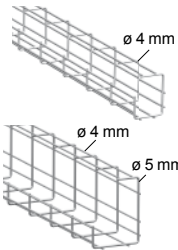
75x75	75/75/2500	258	7332227011327	1149132
120x100	100/120/2500	437	7332227011334	1149133
220x80	80/220/2500	634	7332227011341	1149134



G-mesh trays

G-shaped mesh cable tray, length 2.5 m, for installation in ceilings, onto walls, under desks and for mounting on cable ladders.
Material: Steel, electro-zinc.

75x95	95/75/2500	256	7332227011389	1149138
120x150	150/120/2500	356	7332227011396	1149139

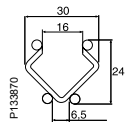


Mini Mesh trays

Mini mesh trays B30-D

Mini mesh tray for the routing of cables. Diamond-shaped for good guiding and protection. Mesh tray length 2 m, wire \varnothing 3 mm.
Material: Steel, electro-zinc.

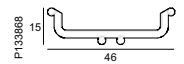
B30-D	24/30/2000	50	7332227011129	1149112
-------	------------	----	---------------	---------



Mini mesh trays B30-U

Mini mesh tray in a space-saving U-shape for the routing of cables. Mesh tray length 2 m, wire \varnothing 3 mm.
Material: Steel, electro-zinc.

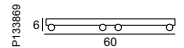
B30-U	15/46/2000	50	7332227011259	1149125
-------	------------	----	---------------	---------




Mini mesh trays B30-I

Mini mesh tray in a space-saving plane design for the routing of cables. Mesh tray length 2 m, wire \varnothing 3 mm.
Material: Steel, electro-zinc.

B30-I	6/60/2000	50	7332227011112	1149111
-------	-----------	----	---------------	---------




Fittings

	Type	Dimensions A/B/C mm		Weight kg/100 pcs	EAN code	Ref. No.
	Fitting B1					
	Fitting to be used as a wall bracket. It can also be mounted over the centre wires as a carrier of lighting fittings. Can also be used in 90 degree angles or as a joining fitting. Delivered without bolt and nut. Material: Steel, electro-zinc.					
P130021	B1	5/80/40		4.8	7332227011549	1149154
	Fitting B2					
	Fitting to be used to join mesh trays. Can also be used in 90 degree angles. Delivered without bolt and nut. Material: Steel, electro-zinc.					
B224661	B2	25/35/7		2	7332227011556	1149155
	Fitting B3					
	Fitting to be used when jointing wires in horizontal and vertical bends, in four-way and tee-junctions, etc. Delivered with bolt and nut. Material: Steel, electro-zinc.					
B224702	B3	20/23/29		4	7332227011563	1149156
	Angled fitting B27					
	Angled fitting for creating T-junctions or for connections to wall, ceiling and floor. Also for bends with adjustable angle. Material: Steel, electro-zinc.					
P130023	B27	85/40/85		13	7332227011693	1149169
	Mounting coupler B20					
	Mounting coupler to be used for joining and mounting of mini mesh trays. Material: Steel, electro-zinc.					
B224668	B20	9/19/85		2	7332227011310	1149131
	Joining set B52					
	Pre-assembled joining fitting including Fittings B1 and B2, Bolt and Nut B13. Used to join the side sections of all wire trays. Material: Steel, electro-zinc.					
P130025 P130026	B52	41/25/80		8	7332227011532	1149153
	Bolt and nut B13					
	Bolt and nut M6x25. Tensi-lock and flange nut M6. Material: Steel, electro-zinc.					
B225230	B13, 50+50 pcs	18/18/30		0.56/bag	7332227011846	1149184
	B13, 250+250 pcs	18/18/30		2.82/bag	7332227011853	1149185

Brackets

	Bracket B4/B4 Mini					
	Bracket to be used for the mounting of mesh trays 53-622 onto wall and floor. Material: Steel, electro-zinc.					
B224764 B224791	B4	85/30/95		14	7332227011570	1149157
	B4 Mini	53/23/55		6	7332227011983	1149198
	Bracket B9					
	Bracket to be used for the mounting of mesh trays onto walls and pendants. Material: Steel, electro-zinc.					
B224828 B224827	B9/75-120	120/180/40		40	7332227011211	1149121
	B9/220	120/280/40		52	7332227011228	1149122
	B9/320	120/380/40		64	7332227011235	1149123
	B9/422	142/480/40		83	7332227011242	1149124
B224829	B9/522	130/580/50		160	7332227011952	1149195
	B9/622	130/680/50		186	7332227011969	1149196


Pendants

Type	Dimensions A/B/C mm		Weight kg/100 pcs	EAN code	Ref. No.
Pendant B12L					
Pendant for light installations. Mounted with M8/M10 bolt. Telescopic extension with B19. Material: Steel, electro-zinc.					
B12L/250	145/60/250		65	7332227011365	1149136
B12L/500	145/60/500		100	7332227011464	1149146
Pendant B12					
Pendant for heavy installations. Mounted with M8/M10 bolt. Telescopic extension with B19. Material: Steel, electro-zinc.					
B12/250	142/142/250		115	7332227011488	1149148
B12/500	142/142/500		188	7332227011501	1149150

Ceiling and joining fittings, support

Ceiling fitting B23					
Adjustable ceiling fitting for mounting onto a straight or a sloping ceiling. Material: Steel, electro-zinc.					
B23	53/150/150		42	7332227011648	1149164
Extension B19					
Extension for telescopic extension of Pendant B12, B12L and for mounting onto Ceiling fitting B23. Material: Steel, electro-zinc.					
B19	1000/61/25		170	7332227011617	1149161
Joining fitting B24					
Joining fitting for Extension B19 and mounting onto Ceiling fitting B23. Material: Steel, electro-zinc.					
B24	55/20/200		28	7332227011655	1149165
Side support B10					
Side support intended to increase stability of a pendant with assymetrical load. Material: Steel, electro-zinc.					
B10	40/20/997		93	7332227011495	1149149
Ceiling fitting, universal B46					
Universal ceiling fitting intended for mounting of Threaded rod B41 onto ceiling. Material: Steel, electro-zinc.					
B46	75/30/60		9	7332227014748	1149474
Ceiling fitting, flexible B47					
Flexible ceiling fitting that adapts to the inclination of the ceiling. Delivered complete with Tensi-lock flange nut. Material: Steel, electro-zinc.					
B47/M8	65/65/65		12	7332227014755	1149475
B47/M10	65/65/65		13	7332227014762	1149476
Ceiling clamp B48					
Ceiling clamp for hole dimension Ø 22 mm. Delivered complete with Tensi-lock nut and washers. Material: Steel, electro-zinc.					
B48/M8	20/20/75		6	7332227014724	1149472
B48/M10	20/20/75		7	7332227014731	1149473

Support hooks

Type	Dimensions A/B/C mm		Weight kg/100 pcs	EAN code	Ref. No.
Support hook B35/120-220					
Support hook intended for 120-220 mm mesh trays. Material: Steel, electro-zinc.					
B35/120-220	120/50/95		30	7332227011198	1149119
Support hook B35/320-422					
Support hook intended for 320-422 mm mesh trays. Material: Steel, electro-zinc.					
B35/320-422	110/50/290		52	7332227011204	1149120
Support hook B35/422-622					
Reinforced support hook intended for 422-622 mm mesh trays. Material: Steel, electro-zinc.					
B35/422-622	140/50/410		105	7332227011303	1149130
Support hook B39					
Support hook for mounting onto a Threaded rod. For tray widths 120-220 and 320-422 respectively. Material: Steel, electro-zinc.					
B39/120-220	25/50/95		8	7332227011174	1149117
B39/320-422	25/50/290		30	7332227011181	1149118


Threaded rods

Threaded rod B41					
Threaded rod according to metric standard 6G. Material: Steel, electro-zinc.					
B41/M8	8/8/1000		31	7332227014519	1149451
	8/8/2000		63	7332227014526	1149452
B41/M10	10/10/1000		49	7332227014618	1149461
	10/10/2000		98	7332227014625	1149462

Nuts, locks, clamps

Flange nut B43					
Flange nut to be mounted onto Threaded rod B41 in order to lock it to the Support hook and the Ceiling fittings. Material: Steel, electro-zinc.					
B43/M8, 50 pcs	17/17/8		0.4/bag	7321677888474	1149405
B43/M10, 50 pcs	20/20/15		0.56/bag	7332227014649	1149464
Distance nut B42					
Distance nut to be used when joining Threaded rods. Material: Steel, electro-zinc.					
B42/M8	15/15/30		1	7332227014557	1149455
B42/M10	20/20/40		2	7332227014656	1149465
Thread lock B50					
Thread lock to be used when joining Threaded rods. Material: Steel, electro-zinc.					
B50/M8	10/20/35		1	7332227014564	1149456
B50/M10	12/24/35		2	7332227014663	1149466
Beam clamp B49					
Beam clamp intended for mounting onto a beam. Material: Steel, electro-zinc.					
B49	43/20/60		14	7332227014717	1149471


Accessory holders

Type	Dimensions A/B/C mm		Weight kg/100 pcs	EAN code	Ref. No.
Accessory holder B5 Mini					
Accessory holder with a universal hole pattern for the mounting of a variety of boxes and outlets. The holder is easy to mount in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires. Material: Steel, electro-zinc.					
B5 Mini	140/24/170		20	7332227011372	1149137
Accessory holder B5					
Accessory holder without holes or with a universal hole pattern for the mounting of a variety of boxes and outlets. The holder is easy to mount in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires. Material: Steel, electro-zinc.					
B5 with holes	120/28/230		43	7332227011587	1149158
B5 without holes	120/28/230		46	7332227011686	1149168









Accessories

Plate cover B7					
Mesh tray plate cover, to be mounted with Clips B8, 4 pcs / cover. For tray widths acc. to the type designation. Cover length 1250 mm. Material: Steel, pre-galvanized.					
B7/75	17/80/1250		80	7332227012706	1149270
B7/120	17/125/1250		117	7332227012713	1149271
B7/220	17/225/1250		174	7332227012720	1149272
B7/320	17/325/1250		239	7332227012737	1149273
B7/422	17/425/1250		303	7332227012744	1149274
Clip B8					
Clip intended to mount Plate cover B7 on a mesh tray, 4 pcs/cover. Material: Stainless steel AISI316.					
B8	10/20/30		1	7332227013796	1149379
Separating plate B36 and Plate holder B38					
Separating plate for simple joining by entering Plates into each other. Plate holder B38 is used to mount Separating plate B36 onto a mesh tray. Material: Steel, pre-galvanized.					
B36	38/4/2400		65	7332227012768	1149276
Plate holder to be used for mounting of Separating plate B36, 5 pcs/Separating Plate. Material: Steel, electro-zinc.					
B38	15/50/20		3	7332227012898	1149289
Separating plate B26					
L-shaped separating plate, fixed to the mesh tray by bending the flaps around the transversal wires. Material: Steel, pre-galvanized.					
B26, L-shaped	40/30/2500		114	7332227012782	1149278
Tele-channel B6					
Tele-channel to be fixed to the mesh tray by bending the flaps around the transversal wires. Material: Steel, pre-galvanized.					
B6	40/50/2500		195	7332227012478	1149247

Accessories

	Type	Dimensions A/B/C mm	 Weight kg/100 pcs	EAN code	Ref. No.
	Combi-fittings B21				
	Combi-fitting to be mounted onto cable ladders. Material: Steel, electro-zinc.				
B224671	B21	250/20/50	44	7332227011594	1149159
B224672	B21 90 degrees	120/50/135	44	7332227011914	1149191
	Support B33				
	Support to be used for mounting of all mesh trays on the floor, for example under a raised floor. The height of B33 Support is adjustable from 215 to 370 mm. The upper or lower part can be adjusted in a 90° angle. Material: Steel, electro-zinc.				
B224732	B33	215/100/220	169	7332227011358	1149135
	Conveyor bracket B17				
	Universal fitting to be used when mounting mesh trays along conveyor systems. Material: Steel, electro-zinc.				
B224652	B17	35/35/450	52	7332227011921	1149192
	Fixing for Canalis KBA and KBB				
	Fixing bracket to fix Canalis busbar trunking to the mesh trays. Hole for M6 on top, dia. 6.5 mm. Maximum load 60 kg. Material: Steel, pre-galvanized.				
P131609 P131608	For Canalis KBA	78/38/52.5	65	3606480461590	CSU794592
	For Canalis KBB	78/38/68.5	78	3606480461606	CSU794593
	Earth connection clamp B18				
	Earth connection clamp to be used to mount earth cable onto a chosen wire of the mesh tray. Material: Brass, electrolytically nickel coated.				
B224654	B18	15/15/30	2	321677887163	1149180
	Safety cap B32				
	Safety cap of halogen-free and flame-proof plastic material. To be mounted onto wires sticking out. Bag with 100 pcs. Material: PE.				
B224728	B32/3	5/5/8	5	7332227013895	1149389
	B32/4	8/8/10	5	7332227013888	1149388
	B32/5	8/8/10	4	7332227013666	1149366
	B32/6	8/9/10	3	7332227013673	1149367
	Mounting spacer B22				
	Plastic spacer that fits all mini mesh-tray dimensions. Mounted by snapping the spacer onto the bottom wires. For 3 mm wire diameter. Bag with 10 pcs. Material: PE.				
B224680	B22	18/6/18	1.4	7332227015233	1149523
	Bend plate B31				
	Bend plate for smooth bending of cables when changing level. For tray widths 120, 220, 320 and 422 mm respectively. Material: Aluminium.				
B224726	B31/120	5/90/290	4	7332227012263	1149226
	B31/220	5/190/290	9	7332227012270	1149227
	B31/320	5/290/290	13	7332227012287	1149228
	B31/422	5/390/290	17	7332227012294	1149229

Accessories

	Type	Dimensions A/B/C mm		Weight kg/100 pcs	EAN code	Ref. No.
	Side radius limiter B11					
	Radius limiter to be used for limiting the side bend radius of any cable type. R = 40 mm. Material: Steel, pre-galvanized.					
P191588		B11/5 for mesh trays 75x5-320 mm	120/40/215	24	7332227014380	1149438
		B11/6 for mesh trays 422-622 mm	120/40/215	24	7332227014397	1149439
	Radius limiter B34					
	Radius limiter that limits the bend radius for sensitive cables. The radius limiter is mounted from below by using the locking stick. Material: Steel, pre-galvanized.					
B224734		B34/75	40/80/75	8	7332227014373	1149437
		B34/120	40/80/115	10	7332227014311	1149431
		B34/220	40/80/215	21	7332227014328	1149432
		B34/320	40/80/315	32	7332227014335	1149433
		B34/422	40/80/415	43	7332227014342	1149434
		B34/522	40/80/515	55	7332227014359	1149435
		B34/622	40/80/615	65	7332227014366	1149436
	Radius limiter B67, Cover B68					
	Radius limiter that limits the bend radius and gives protection at side position. The radius limiter is mounted from below by using the locking stick. Cover B68 is used for extra protection of cables < 2 mm. Material: Steel, pre-galvanized.					
B225217		B67/75	40/150/75	13	7332227014427	1149442
		B68/75	10/25/60	1	7332227014823	1149482
		B67/120	40/150/115	18	7332227014434	1149443
		B68/120	10/25/102	2	7332227014830	1149483
		B67/220	40/150/215	30	7332227014441	1149444
		B68/220	10/25/202	4	7332227014847	1149484
		B67/320	40/150/315	42	7332227014458	1149445
		B68/320	10/25/302	6	7332227014854	1149485
		B67/422	40/150/415	53	7332227014465	1149446
		B68/422	10/25/402	8	7332227014861	1149486
		B67/522	40/150/515	65	7332227014472	1149447
		B68/522	10/25/502	10	7332227014878	1149487
		B67/622	40/150/615	77	7332227014489	1149448
		B68/622	10/25/602	12	7332227014885	1149488
	AS-I clip B14					
	Plastic clip, oil and UV-resistant, intended for the fixing of AS-I cable. For mesh tray wire diameter 4 and 5 mm respectively. The grey clip is also used for mounting onto Fixing plate B15. Package of 100 pcs. Material: POM.					
B225228 B225229		B14, blue For 4 mm wire	10/15/14	10	7332227015202	1149520
		B14, grey For 5 mm wire	10/15/14	10	7332227015219	1149521
	Fixing plate B15					
	Plastic plate, oil and UV-resistant, intended for mounting of cable or hose onto machines for example. The cable is mounted onto the fixing plate with Cable clips B14 or B16. Package of 100 pcs. Material: POM.					
B225165		B15, grey	5/15/15	7	7332227015226	1149522
	Cable clip B16					
	Plastic clip, oil and UV-resistant, intended for mounting of cable or hose, Ø 6, 8 or 10 mm respectively, onto a 5 mm mesh tray wire. Can also be used to mount cable or hose onto Fixing plate B15. Package of 100 pcs. Material: POM.					
B224648		B16, grey, Ø 6 mm	10/16/15	11	7332227015257	1149525
		B16, black, Ø 8 mm	10/16/15	10	7332227015264	1149526
		B16, white, Ø 10 mm	10/16/15	9	7332227015271	1149527
	Velcro B51					
	Velcro tape intended to attach bundles of cables onto a mesh tray. Length 22.8 m, colour black.					
B225157		B51/10	10/22.8	16	7332227186506	1518650
		B51/20	20/22.8	32	7332227186513	1518651

Accessories

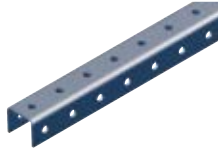
Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Marking clip B44				
Plastic marking clip, flame-resistant, to be snapped onto the two side wires of the mesh tray. The Equipotential Bonding clip is available in Swedish, English and German. Package of 10 pcs. Material: ABS.				
B44	40/10/90	1	7332227014274	1149427
B44/Potentialutjämning, SE	40/10/90	1	7321677888566	1149428
B44/Equipotential Bonding, GB	40/10/90	1	7321677888573	1149429
B44/Potentialausgleich, DE	40/10/90	1	7321677888580	1149430
Identification tag B40				
Identification tag to be snapped onto mesh tray wires of Ø 5 mm. Package of 10 pcs. Material: ABS.				
B40/Opto	35/8/43	1	7332227014205	1149420
B40/Coax	35/8/43	1	7332227014212	1149421
B40/Pair	35/8/43	1	7332227014229	1149422
B40/Neutral	35/8/43	1	7332227014236	1149423
B40/Pow	35/8/43	1	7332227014243	1149424

Tools

Cable roller B25				
Cable roller intended to facilitate the pulling of cables into the mesh trays. Mounted on the mesh tray by pulling the black knob outwards. When the cable pulled by the cable roller has reached the desired distance, it is moved to the tray by pushing the small metal button to open the cable roller and removing it. Material: Stainless steel AISI316, plastic.				
B25	210/130/40	35	7332227019552	1653955
Bolt cutter B28				
Bolt cutter with angled clipper cut head for narrow and clean cuts of mesh tray wires.				
B28	140/40/630	272	7332227239981	1623998
Spanner B45				
10 mm combination spanner, open end/flex head end. Material: Chrome vanadium steel.				
B45	15/15/180	7	7332227222006	1622200

U-Bar

B224803



Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
U-bar B60				
U-bar to be used for support of Defem Mesh Tray System and assembly of CombiRack frames. Distance between hole centres: 40 mm, hole Ø 8.5 mm. Material: Steel, electro-zinc.				
B60	35/40/400	90	7321677889921	5002450
B60	35/40/480	110	7321677889938	5002451
B60	35/40/520	120	3606480518591	5002454
B60	35/40/600	140	3606480518607	5002455
B60	35/40/720	160	7321677889945	5002452
B60	35/40/800	180	3606480518614	5002456
B60	35/40/920	200	3606480518621	5002457
B60	35/40/1000	220	3606480518638	5002458
B60	35/40/1920	420	7321677889952	5002453
B60	35/40/2120	480	3606480518645	5002459
B60	35/40/2876	620	7321677888429	1149400

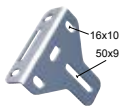
Fittings

B224804



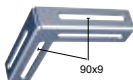
Joining fitting B61				
Fitting to be used for the joining of U-bars. Package of 6 pcs. Material: Steel, electro-zinc.				
B61	30/36/235	20	7332227014014	1149401

B224809



Angled fitting B62				
Angled fitting to be used for the mounting of U-bars. Package of 6 pcs. Material: Steel, electro-zinc.				
B62	35/101/110	20	7321677888443	1149402

B224812



Corner fitting B65				
Corner fitting to be used for the mounting of U-bars and the assembly of CombiRack. Package of 6 pcs. Material: Steel, electro-zinc.				
B65	30/130/130	20	7321677888498	1149407

B224810



Adjustable foot B63				
Adjustable foot for U-bars. With ball joint that compensates for uneven floors. Hole diameter 8.5 mm. M8-thread on the back side. Distance between hole centres 40 mm. Adjustable height 70 mm. Package of 6 pcs. Material: Steel, electro-zinc.				
B63	44/44/104	30	7321677888481	1149406

Cap, Bolt, Nuts

B224811



End cap B64				
Cap to be used for protection of exposed ends of the U-bar. Package of 10 pcs. Material: PE.				
B64	40/20/40	10	7321677888450	1149403

B224813



Flange bolt B66				
Tensi-Lock for gas-tight connections. Package of 50 pcs. Material: Steel, electro-zinc.				
B66 M8x20	17/17/30	70	7321677888467	1149404

B224767




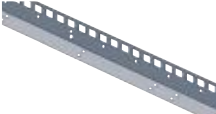
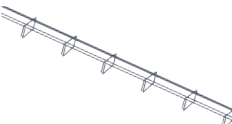
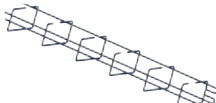


Flange nut B43				
Tensi-Lock for gas-tight connections. Package of 50 pcs. Material: Steel, electro-zinc.				
B43 M8	17/17/8	40	7321677888474	1149405

B225159




Cage nut set B2490				
Cage nut set including Torx bolt and nut. Package of 10 pcs. Material: Steel, electro-zinc.				
B2490	10/10/16	10	7321677890040	5002490

Accessories

	Type	Dimensions A/B/C mm	 Weight kg/100 pcs	EAN code	Ref. No.	
B225200	 Mounting profiles B2460 and B2461 Profile to be used when mounting 19" frames. Fittings included. Material: Steel, electro-zinc.					
		B2460 19"	35/53/1876	250	7321677889969	5002460
		B2461 19"	35/53/2060	270	7321677889976	5002461
B225242	 Cable duct B2468 Vertical cable duct for the organizing and routing of cables. Fittings included. Material: Steel, electro-zinc.					
		B2468/95	65/95/1400	115	7321677890019	5002468
		B2468/140	65/140/1400	143	7321677890002	5002467
B225164	 Cable duct B2469 Horizontal cable duct 19" for the organizing and routing of cables. Fittings included. Material: Steel, electro-zinc.					
		B2469 19"	85/45/495	26	7321677890026	5002469
B225219	 Adaptor B2580 Telescopic adaptor to be used to compensate for the difference between equipment and rack depth. Adjustable 15-220 mm. Material: Steel, electro-zinc.					
		B2580 19"	44/33/176	30	7332227015806	5002580
B225201	 Mounting frame B2590 Mounting frame that simplifies the mounting of CombiRack frames. Material: Steel, electro-zinc.					
		B2590	563/85/603	200	7321677890187	5002590

Tools

B224769	 Spanners B45/10 and B45/13 Combination spanner, open end/flex head end. Suitable for Defem U-Bars and Mesh trays. Material: Steel, electro-zinc.					
		B45/10	15/15/180	7	7332227222006	1622200
		B45/13	18/18/200	8	3606480518553	1622221

1149100

1149100.....	90	1149274.....	95
1149101.....	90	1149276.....	95
1149102.....	90	1149278.....	95
1149103.....	90	1149289.....	95
1149104.....	90	1149366.....	96
1149105.....	90	1149367.....	96
1149106.....	90	1149379.....	95
1149107.....	90	1149388.....	96
1149108.....	90	1149389.....	96
1149109.....	90	1149400.....	99
1149110.....	90	1149401.....	99
1149111.....	91	1149402.....	99
1149112.....	91	1149403.....	99
1149113.....	90	1149404.....	99
1149114.....	90	1149405.....	94, 99
1149115.....	90	1149406.....	99
1149116.....	90	1149407.....	99
1149117.....	94	1149420.....	98
1149118.....	94	1149421.....	98
1149119.....	94	1149422.....	98
1149120.....	94	1149423.....	98
1149121.....	92	1149424.....	98
1149122.....	92	1149427.....	98
1149123.....	92	1149428.....	98
1149124.....	92	1149429.....	98
1149125.....	91	1149430.....	98
1149130.....	94	1149431.....	97
1149131.....	92	1149432.....	97
1149132.....	91	1149433.....	97
1149133.....	91	1149434.....	97
1149134.....	91	1149435.....	97
1149135.....	96	1149436.....	97
1149136.....	93	1149437.....	97
1149137.....	95	1149438.....	97
1149138.....	91	1149439.....	97
1149139.....	91	1149442.....	97
1149146.....	93	1149443.....	97
1149148.....	93	1149444.....	97
1149149.....	93	1149445.....	97
1149150.....	93	1149446.....	97
1149153.....	92	1149447.....	97
1149154.....	92	1149448.....	97
1149155.....	92	1149451.....	94
1149156.....	92	1149452.....	94
1149157.....	92	1149455.....	94
1149158.....	95	1149456.....	94
1149159.....	96	1149461.....	94
1149161.....	93	1149462.....	94
1149164.....	93	1149464.....	94
1149165.....	93	1149465.....	94
1149168.....	95	1149466.....	94
1149169.....	92	1149471.....	94
1149180.....	96	1149472.....	93
1149184.....	92	1149473.....	93
1149185.....	92	1149474.....	93
1149191.....	96	1149475.....	93
1149192.....	96	1149476.....	93
1149195.....	92	1149482.....	97
1149196.....	92	1149483.....	97
1149198.....	92	1149484.....	97
1149226.....	96	1149485.....	97
1149227.....	96	1149486.....	97
1149228.....	96	1149487.....	97
1149229.....	96	1149488.....	97
1149247.....	95	1149520.....	97
1149270.....	95	1149521.....	97
1149271.....	95	1149522.....	97
1149272.....	95	1149523.....	96
1149273.....	95	1149525.....	97
		1149526.....	97
		1149527.....	97

1518650

1518650.....	97
1518651.....	97

1622200

1622200.....	98, 100
1622221.....	100
1623998.....	98
1653955.....	98

5002450

5002450.....	99
5002451.....	99
5002452.....	99
5002453.....	99
5002454.....	99
5002455.....	99
5002456.....	99
5002457.....	99
5002458.....	99
5002459.....	99
5002460.....	100
5002461.....	100
5002467.....	100
5002468.....	100
5002469.....	100
5002490.....	99
5002580.....	100
5002590.....	100

A

ACTFM1UF2LC12PM.....	49
ACTFM1UF2LC12PS.....	49
ACTFMSPT4USET.....	49
ACTFMSPTKIT.....	49, 50
ACTFP2L1M35M10.....	47
ACTFP2L1M35M20.....	47
ACTFP2L1M35M30.....	47
ACTFP2L1M35M50.....	47
ACTFP2L1M35M100.....	47
ACTFP2L1M45M10.....	47
ACTFP2L1M45M20.....	47
ACTFP2L1M45M30.....	47
ACTFP2L1M45M50.....	47
ACTFP2L1M45M100.....	47
ACTFP2L1S19S10.....	47
ACTFP2L1S19S20.....	47
ACTFP2L1S19S30.....	47
ACTFP2L1S19S50.....	47
ACTFP2L1S19S100.....	47
ACTFT1L1M35M10.....	46
ACTFT1L1M35M15.....	46
ACTFT1L1M35M20.....	46
ACTFT1L1M45M10.....	46
ACTFT1L1M45M15.....	46
ACTFT1L1M45M20.....	46
ACTFT1L1S19S10.....	46
ACTFT1L1S19S15.....	46
ACTFT1L1S19S20.....	46
ACTMMOG12xx.....	41
ACTMMOG12xxH.....	41
ACTMMOG24xx.....	41
ACTMMOG24xxH.....	41
ACTMMOS12xx.....	41
ACTMMOS12xxH.....	41
ACTMMOS24xx.....	41
ACTMMOS24xxH.....	41

ACTMMOT12xx.....	41
ACTMMOT12xxH.....	41
ACTMMOT24xx.....	41
ACTMMOT24xxH.....	41
ACTMP1U.....	48
ACTMP1U*.....	40
ACTMP1UH.....	40
ACTMP4U.....	48
ACTMP4U*.....	40
ACTMPBP.....	41, 49
ACTMPBPH.....	41

C

CSU794592.....	96
CSU794593.....	96

N

NSYBR9F42.....	83
NSYBR9F47.....	83
NSYBTR24U.....	82
NSYBTR42U.....	82
NSYCRTM1UVTG.....	86
NSYCTVDA.....	86
NSYEC440.....	86
NSYECV440.....	86
NSYECVT2V440.....	86
NSYGFR95M65.....	86
NSYPEPM42UBTR.....	82
NSYPV42.....	83
NSYPV47.....	83
NSYRUFVD.....	82
NSYRUFVDA.....	82
NSYVDA42U66B.....	83
NSYVDA42U68B.....	83
NSYVDA42U86B.....	83
NSYVDA42U88B.....	83
NSYVDA42U610B.....	83
NSYVDA42U810B.....	83
NSYVDA47U66B.....	83
NSYVDA47U68B.....	83
NSYVDA47U86B.....	83
NSYVDA47U88B.....	83
NSYVDAC42U66B.....	83
NSYVDAC42U68B.....	83
NSYVDAC42U86B.....	83
NSYVDAC42U88B.....	83
NSYVDAC42U610B.....	83
NSYVDAC42U810B.....	83
NSYVDS42U68N.....	84
NSYVDS42U88N.....	84
NSYVDS42U610N.....	84
NSYVDS42U810N.....	84
NSYVDSC42U68N.....	84
NSYVDSC42U88N.....	84
NSYVDSC42U610N.....	84
NSYVDSC42U810N.....	84
NSYZUN66BTR.....	82

V

VDIB1772XB12.....	68
VDIB1772XB96.....	68
VDIB6051003.....	51
VDIB6051004.....	51
VDIB6052003.....	51
VDIB6052004.....	51
VDIB6123001.....	51
VDIC62X218.....	72
VDIC62X228.....	72

VDIC62X318.....	72	VDICD52508L.....	44
VDIC63X218.....	72	VDICD52508LM.....	44
VDIC63X228.....	72	VDICD52512L.....	44
VDIC63X318.....	72	VDICD52512LM.....	44
VDIC64X218.....	72	VDICD52524L.....	44
VDIC64X228.....	72	VDICD52524LM.....	44
VDIC64X318.....	72	VDIG111241F.....	76
VDIC68X218.....	74	VDIG112241F.....	76
VDIC68X218F01.....	74	VDIG118241BX0.....	76
VDIC68X228.....	74	VDIG150991V2.....	50
VDIC68X228F01.....	74	VDIG161911.....	52, 79
VDIC68X318.....	74	VDIG161931.....	52, 79
VDIC68X318F01.....	74	VDIG161941.....	52, 79
VDIC42306L.....	45	VDIG161951.....	52, 79
VDIC42312L.....	45	VDIG163611.....	52, 79
VDIC42324L.....	45	VDIG163631.....	52, 79
VDIC42506L.....	44	VDIG164711.....	52, 79
VDIC42512L.....	44	VDIG164731.....	52, 79
VDIC42524L.....	44	VDIG188011.....	78
VDIC52306L.....	45	VDIG188021.....	78
VDIC52306LM.....	45	VDIG188141.....	78
VDIC52312L.....	45	VDIG188142.....	78
VDIC52312LM.....	45	VDIG188142.....	78
VDIC52324L.....	45	VDIG321241B.....	77
VDIC52324LM.....	45	VDIG328241B.....	77
VDIC52406L.....	45	VDIG328241BX0.....	77
VDIC52406LM.....	45	VDIG1636411.....	52, 79
VDIC52412L.....	45	VDIG1647411.....	52, 79
VDIC52412LM.....	45	VDILA1.....	33
VDIC52424L.....	45	VDILA2.....	33
VDIC52424LM.....	45	VDILA4.....	33
VDIC52504L.....	44	VDILA6.....	33
VDIC52504LM.....	44	VDILA33.....	33
VDIC52506L.....	44	VDILA34.....	33
VDIC52506LM.....	44	VDILA36.....	33
VDIC52508L.....	44	VDILA501.....	33
VDIC52508LM.....	44	VDILA503.....	33
VDIC52512L.....	44	VDILA504.....	33
VDIC52512LM.....	44	VDILC135C1C*.....	35
VDIC52524L.....	44	VDILC145C1C*.....	35
VDIC52524LM.....	44	VDILC165C1C*.....	35
VDIC648218.....	73	VDILC235C1C.....	35
VDIC648228.....	73	VDILC235C3C.....	35
VDIC648318.....	73	VDILC235D1D.....	35
VDIC658218.....	73	VDILC235K1K.....	35
VDIC658228.....	73	VDILC245C1C.....	35
VDIC658228F01.....	73	VDILC245C3C.....	35
VDIC658318.....	73	VDILC245D1D.....	35
VDIC658318F01.....	73	VDILC245K1K.....	35
VDICD42306L.....	45	VDILC265C1C.....	35
VDICD42312L.....	45	VDILC265C3C.....	35
VDICD42324L.....	45	VDILC265D1D.....	35
VDICD42506L.....	44	VDILC265K1K.....	35
VDICD42512L.....	44	VDILC335G5G0xxx.....	36
VDICD42524L.....	44	VDILC335G5G0XXX.....	36
VDICD52306L.....	45	VDILC335J5J0xxx.....	36
VDICD52306LM.....	45	VDILC335J5J0XXX.....	36
VDICD52312L.....	45	VDILC335P5P0xxx.....	36
VDICD52312LM.....	45	VDILC335P5P0XXX.....	36
VDICD52324L.....	45	VDILC345G5G0xxx.....	36
VDICD52324LM.....	45	VDILC345G5G0XXX.....	36
VDICD52406L.....	45	VDILC345J5J0xxx.....	36
VDICD52406LM.....	45	VDILC345J5J0XXX.....	36
VDICD52412L.....	45	VDILC345P5P0xxx.....	36
VDICD52412LM.....	45	VDILC345P5P0XXX.....	36
VDICD52424L.....	45	VDILC365G5G0xxx.....	36
VDICD52424LM.....	45	VDILC365G5G0XXX.....	36
VDICD52504L.....	44	VDILC365J5J0xxx.....	36
VDICD52504LM.....	44	VDILC365J5J0XXX.....	36
VDICD52506L.....	44	VDILC365P5P0xxx.....	36
VDICD52506LM.....	44	VDILC365P5P0XXX.....	36

VDILC435G5G0xxx	36	VDILL035K3K1XXX	38
VDILC435G5G0XXX	36	VDILL035K3K2xxx	38
VDILC435J5J0xxx	36	VDILL035K3K2XXX	38
VDILC435J5J0XXX	36	VDILL041C1C1xxx	39
VDILC435P5P0xxx	36	VDILL041C1C1XXX	39
VDILC435P5P0XXX	36	VDILL041C1C2xxx	39
VDILC445G5G0xxx	36	VDILL041C1C2XXX	39
VDILC445G5G0XXX	36	VDILL041C3C1xxx	39
VDILC445J5J0xxx	36	VDILL041C3C1XXX	39
VDILC445J5J0XXX	36	VDILL041C3C2xxx	39
VDILC445P5P0xxx	36	VDILL041C3C2XXX	39
VDILC445P5P0XXX	36	VDILL041K1K1xxx	39
VDILC465G5G0xxx	36	VDILL041K1K1XXX	39
VDILC465G5G0XXX	36	VDILL041K1K2xxx	39
VDILC465J5J0xxx	36	VDILL041K1K2XXX	39
VDILC465J5J0XXX	36	VDILL041K3K1xxx	39
VDILC465P5P0xxx	36	VDILL041K3K1XXX	39
VDILC465P5P0XXX	36	VDILL041K3K2xxx	39
VDILL031C1C1xxx	39	VDILL041K3K2XXX	39
VDILL031C1C1XXX	39	VDILL043C3C1xxx	39
VDILL031C1C2xxx	39	VDILL043C3C1XXX	39
VDILL031C1C2XXX	39	VDILL043C3C2xxx	39
VDILL031C3C1xxx	39	VDILL043C3C2XXX	39
VDILL031C3C1XXX	39	VDILL043K3K1xxx	39
VDILL031C3C2xxx	39	VDILL043K3K1XXX	39
VDILL031C3C2XXX	39	VDILL043K3K2xxx	39
VDILL031K1K1xxx	39	VDILL043K3K2XXX	39
VDILL031K1K1XXX	39	VDILL044C4C0xxx	37
VDILL031K1K2xxx	39	VDILL044C4C0XXX	37
VDILL031K1K2XXX	39	VDILL044D4D0xxx	37
VDILL031K3K1xxx	39	VDILL044D4D0XXX	37
VDILL031K3K1XXX	39	VDILL044K4D0xxx	37
VDILL031K3K2xxx	39	VDILL044K4D0XXX	37
VDILL031K3K2XXX	39	VDILL044K4K0xxx	37
VDILL033C3C1xxx	39	VDILL044K4K0XXX	37
VDILL033C3C1XXX	39	VDILL045C1C1xxx	38
VDILL033C3C2xxx	39	VDILL045C1C1XXX	38
VDILL033C3C2XXX	39	VDILL045C1C2xxx	38
VDILL033K3K1xxx	39	VDILL045C1C2XXX	38
VDILL033K3K1XXX	39	VDILL045C3C1xxx	38
VDILL033K3K2xxx	39	VDILL045C3C1XXX	38
VDILL033K3K2XXX	39	VDILL045C3C2xxx	38
VDILL034C4C0xxx	37	VDILL045C3C2XXX	38
VDILL034C4C0XXX	37	VDILL045D1K1xxx	38
VDILL034D4D0xxx	37	VDILL045D1K1XXX	38
VDILL034D4D0XXX	37	VDILL045D1K2xxx	38
VDILL034K4D0xxx	37	VDILL045D1K2XXX	38
VDILL034K4D0XXX	37	VDILL045D3K1xxx	38
VDILL034K4K0xxx	37	VDILL045D3K1XXX	38
VDILL034K4K0XXX	37	VDILL045D3K2xxx	38
VDILL035C1C1xxx	38	VDILL045D3K2XXX	38
VDILL035C1C1XXX	38	VDILL045K1K1xxx	38
VDILL035C1C2xxx	38	VDILL045K1K1XXX	38
VDILL035C1C2XXX	38	VDILL045K1K2xxx	38
VDILL035C3C1xxx	38	VDILL045K1K2XXX	38
VDILL035C3C1XXX	38	VDILL045K3K1xxx	38
VDILL035C3C2xxx	38	VDILL045K3K1XXX	38
VDILL035C3C2XXX	38	VDILL045K3K2xxx	38
VDILL035D1K1xxx	38	VDILL045K3K2XXX	38
VDILL035D1K1XXX	38	VDILL061C1C1xxx	39
VDILL035D1K2xxx	38	VDILL061C1C1XXX	39
VDILL035D1K2XXX	38	VDILL061C1C2xxx	39
VDILL035D3K1xxx	38	VDILL061C1C2XXX	39
VDILL035D3K1XXX	38	VDILL061C3C1xxx	39
VDILL035D3K2xxx	38	VDILL061C3C1XXX	39
VDILL035D3K2XXX	38	VDILL061C3C2xxx	39
VDILL035K1K1xxx	38	VDILL061C3C2XXX	39
VDILL035K1K1XXX	38	VDILL061K1K1xxx	39
VDILL035K1K2xxx	38	VDILL061K1K1XXX	39
VDILL035K1K2XXX	38	VDILL061K1K2xxx	39
VDILL035K3K1xxx	38	VDILL061K1K2XXX	39

VDILL061K3K1xxx	39	VDIM155061.....	50
VDILL061K3K1XXX	39	VDIM157021.....	50
VDILL061K3K2xxx	39	VDI M189111	78
VDILL061K3K2XXX	39	VDIM189112.....	78
VDILL063C3C1xxx	39	VDIM189412.....	78
VDILL063C3C1XXX	39	VDIP185X46010.....	75
VDILL063C3C2xxx	39	VDIP185X46020.....	75
VDILL063C3C2XXX	39	VDIP185X46030.....	75
VDILL063K3K1xxx	39	VDIP185X46050.....	75
VDILL063K3K1XXX	39	VDIP185X46100.....	75
VDILL063K3K2xxx	39	VDIP1811	75
VDILL063K3K2XXX	39	VDIP1812	75
VDILL064C4C0xxx	37	VDIP1813	75
VDILL064C4C0XXX	37	VDIP1814	75
VDILL064D4D0xxx	37		
VDILL064D4D0XXX	37		
VDILL064K4D0xxx	37		
VDILL064K4D0XXX	37		
VDILL064K4K0xxx	37		
VDILL064K4K0XXX	37		
VDILL065C1C1xxx	38		
VDILL065C1C1XXX	38		
VDILL065C1C2xxx	38		
VDILL065C1C2XXX	38		
VDILL065C3C1xxx	38		
VDILL065C3C1XXX	38		
VDILL065C3C2xxx	38		
VDILL065C3C2XXX	38		
VDILL065D1K1xxx	38		
VDILL065D1K1XXX	38		
VDILL065D1K2xxx	38		
VDILL065D1K2XXX	38		
VDILL065D3K1xxx	38		
VDILL065D3K1XXX	38		
VDILL065D3K2xxx	38		
VDILL065D3K2XXX	38		
VDILL065K1K1xxx	38		
VDILL065K1K1XXX	38		
VDILL065K1K2xxx	38		
VDILL065K1K2XXX	38		
VDILL065K3K1xxx	38		
VDILL065K3K1XXX	38		
VDILL065K3K2xxx	38		
VDILL065K3K2XXX	38		
VDILP3	33		
VDILP5	33		
VDILP131S5F.....	34		
VDILP131S5L.....	34		
VDILP132U5H.....	34		
VDILP132U5N.....	34		
VDILP133S5F.....	34		
VDILP133S5L.....	34		
VDILP141S5F.....	34		
VDILP141S5L.....	34		
VDILP142U5H.....	34		
VDILP142U5N.....	34		
VDILP143S5F.....	34		
VDILP143S5L.....	34		
VDILP161S5F.....	34		
VDILP161S5L.....	34		
VDILP162U5H.....	34		
VDILP162U5N.....	34		
VDILP163S5F.....	34		
VDILP163S5L.....	34		
VDIM11U241	78		
VDIM11U242	78		
VDIM11U243	78		
VDIM11U244	78		
VDIM11U246	78		
VDIM48E011	78		
VDIM33174.....	85		



Schneider Electric Industries SAS

35, rue Joseph Monier
CS 30323
92506 Rueil Malmaison Cedex
France

RCS Nanterre 954 503 439
Capital social 896 313 776 €
www.schneider-electric.com

12-2017
LSB02759_Data_centres_V4

© 2017 - Schneider Electric. All Rights Reserved.
All trademarks are owned by Schneider Electric Industries SAS or its affiliated companies.

This document has been
printed on recycled paper

