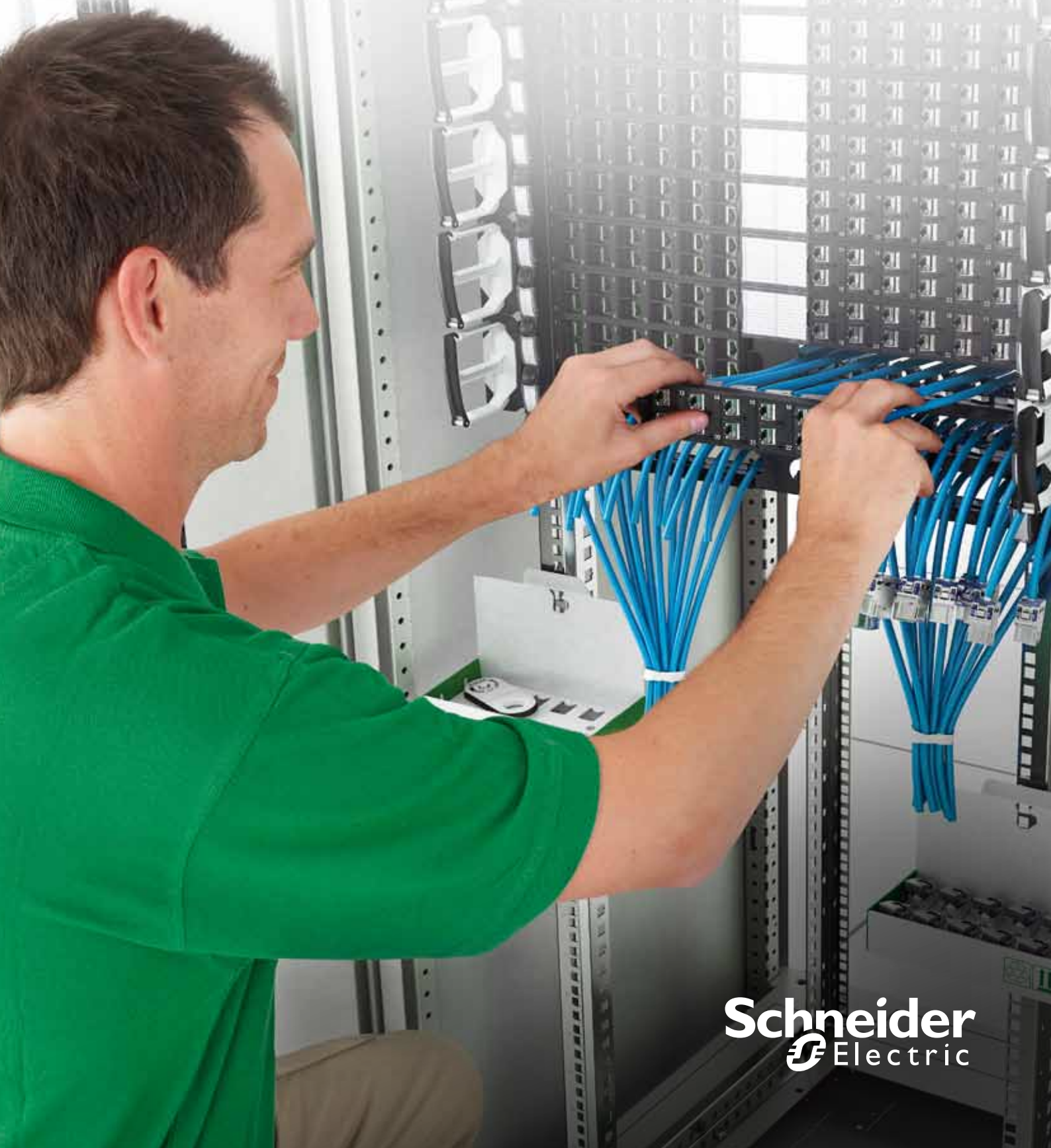


Actassi Cat 6_A

Time for shielded solutions and long-lasting performance

Network Connectivity



The evolution of connectivity

1990

313.000 devices connected

2001

3 billion devices connected

2010

5 billion devices connected

The facts speak for themselves. Cat 6_A is the way to go.

The amount of digital information we produce in seven days today, is equal to that produced in the whole of 2002. The development in the past decade has been immense, and there is no reduction of the pace as far as we can foresee. A fact that in many contexts seems to be at odds with the increasingly stringent requirements on energy consumption. But there are ways to handle this tight spot, and instead profit from what evolution and innovation bring.

Researchers and developers in cooperation with major network communication companies are currently developing the next generation of mobile networks, 5G. The aim is to implement the new standard in Europe by the year 2020, handling 1,000 times more data traffic than today's networks. Behind these mobile networks there are data centres, cables and connectors, all with the need of a high bandwidth. This fact points out the same direction as so many others; it's time to take charge of the needs to come. The solution is Cat 6_A.

Our goal is to stay ahead

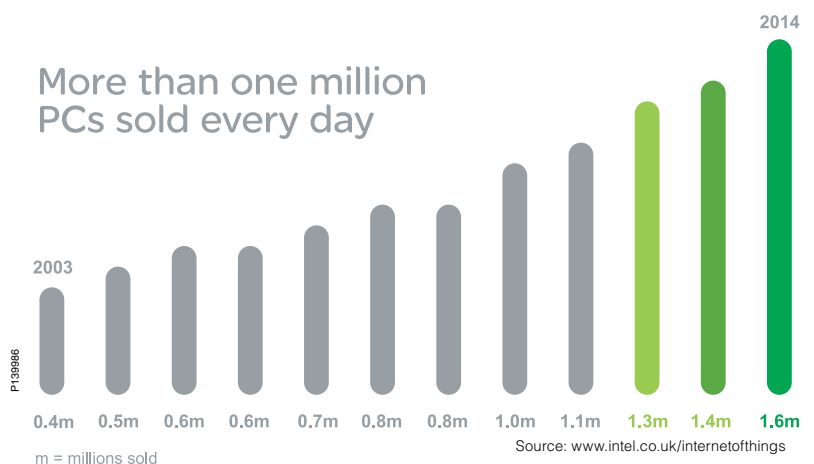
In Schneider Electric's constant endeavour to improve the everyday life for specifiers, installers and end-users, developing professional and future-proof high-performance network solutions has been our focus for many years. Today, our pioneering Cat 6_A solutions provide long-lasting performance in integrated systems, along with time- and energy-saving installation properties that are hard to beat.



The circles indicate the global network capacity over the past three decades, whereas the coloured areas illustrate the amount of used space. The urgent need for increasing network capacity and improving efficiency is evident.

Source: www.intel.co.uk/internetofthings

More than one million PCs sold every day



Take charge of tomorrow's
data requirements today.

Our Actassi

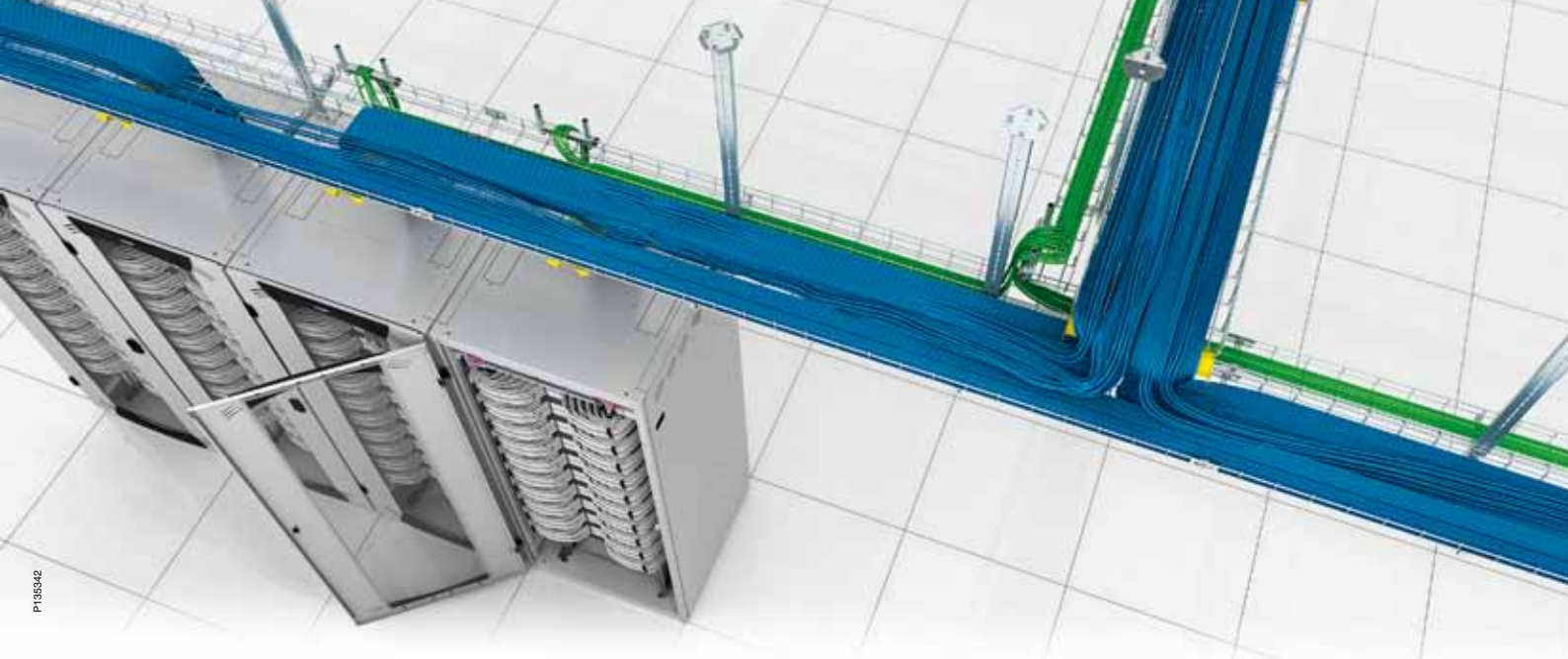
Cat 6_A

solutions enable long-
lasting performance
and optimised ROI.

Link type	Bit rate (Gbits)	Cost/link (Index*)	Estimated lifetime	Cost/year
Cat 6 _A F/FTP MX	10	100	10 years	1.0**
Cat 6 _A U/UTP	10	92	7 years	1.3

*Cost/link: Cat 6_A F/FTP MX = Index 100

** High-end systems
are 30% more cost
efficient



P135542

Total system integration. The key to outstanding performance.

If you plan to install a reliable, long-lasting network system, make sure you focus your time, effort and finances on a solution that will generate optimised ROI for many years to come.

There are thousands of network components on the market, of various brands, qualities and price ranges. The quest for lowest costs will most likely result in a challenging integration of products of different brands. And the outcome will be performance issues, time-consuming installations and costly maintenance.

Plan for optimised total cost of ownership

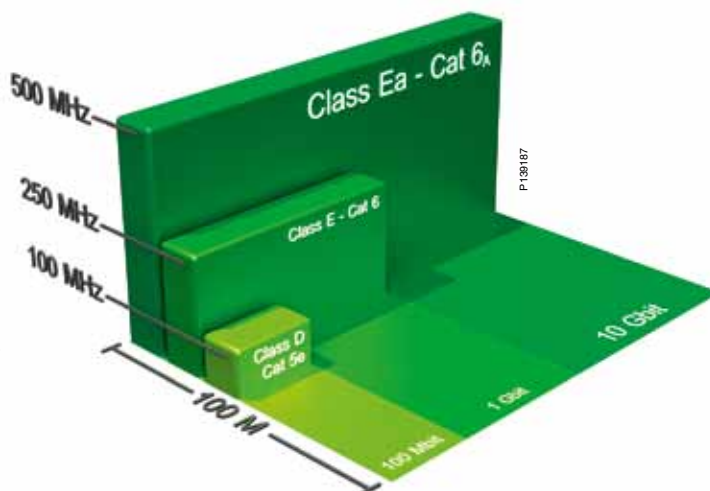
Cat 6_A is the new standard which extends cable frequency from 250 to 500 MHz, thus increasing

performance and reliability over longer distances. Our Cat 6_A solutions are fully integrated, tested and developed for premium performance – component by component, as well as together in a well-composed system.

In other words, the best conditions possible for fast installations, low maintenance and maximised cost efficiency.

Performance comparison

The graph shows that Cat 6_A is well-prepared for taking on the challenges of tomorrow's data traffic.



P138187

Shielded is the obvious choice

We are living in a world where the radiowave disturbances will increase drastically, and thus we need to use shielded solutions to secure the performance. Shielded systems are safe, enduring and reliable, but they have been regarded as complex, expensive and time-consuming to install. But not anymore. In our complete Cat 6_A solutions, every detail has been refined to deliver superior, shielded performance along with design and properties that allow faster and easier installations.

Shielding minimizes the disturbance

Alien Crosstalk (ANEXT)

Today's network solutions are exposed to increasing interference from surrounding equipment like other LAN cables, machines and cell phones.

The installation of Class EA permanent links or channels require costly and time-consuming field testing to insure 10Gbits performances :

- internal transmission parameters
- alien crosstalk performances (ANEXT).

Shielding properties reduce the impact from surrounding equipment to the cabling.

Schneider Electric shielded solutions

Schneider Electric shielded Class EA cabling solutions (CL-MNC6A, CL-MX6_A) present coupling attenuation performances 10dB better than the requirements of ISO/IEC 11801 Ed. 2.2.*

Therefore the Alien Crosstalk performances are met by design and there is no need to test them.

* ISO/IEC 11801 Ed. 2.2 Information technology – Generic cabling for customer premises



Alien Crosstalk is the effect of noise generated between adjacent links that couples from one link to another.

Shielded cables use less space

The Cat 6_A shielded cables are lighter and slimmer compared to unshielded cables. They are also much less twisted than an unshielded cat 6_A cable. The smaller outside diameter provides higher port density and is easier to handle which reduces installation costs. In general, Cat 6_A F/UTP cables provide at least 35% more fill capacity than Cat 6_A UTP cables. They also use less space in conduits.

Increased fill capacity



Shielded cable.
Minimum 35% more fill capacity

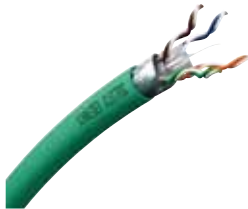


Unshielded cable

Choose the ultimate cable

Using the right type of cable is one of the keys to an optimised network installation. Our range includes Cat 6_A cables for all needs and performances – from standard cables to exclusively designed high performance cables.

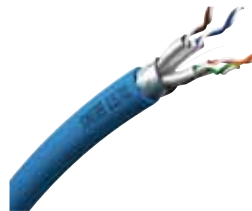
P120018, P119667



CL-C offer

Standard copper LAN cables for your day-to-day installations. The CL-C cables are reliable and well-known, with good performance.

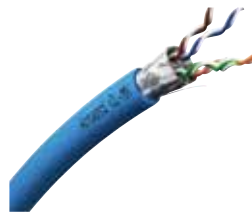
P120023, P119666



CL-MNC offer

High-end copper LAN cables. **Exceeding international standards by 10dB on ACR-F and by 20dB on NEXT.**

P139186, P126513



CL-MX offer

Exclusively designed copper LAN cables with a patented single-foil metallic Xfiller, providing high performance and reliable shielded installations. **Exceeding international standards by 10dB on ACR-F and by 20dB on NEXT. The patented CL-MX brings you the advantages of a shielded cable with the ease of installation of an unshielded cable.**



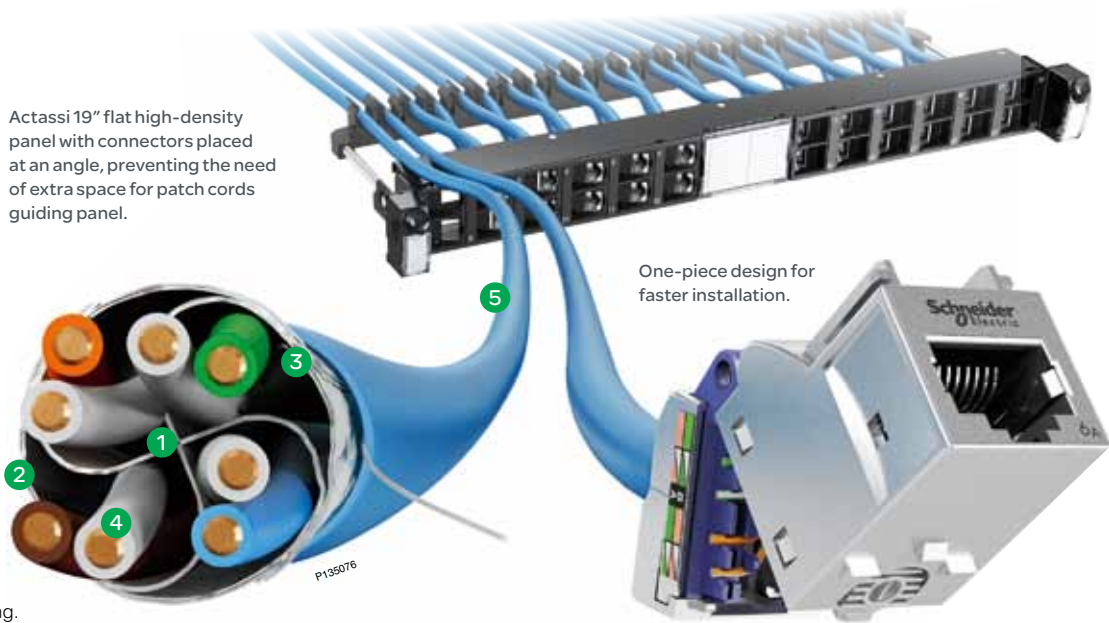
All cables have full certification by the third-party independent laboratory Delta at the highest Cat6_A international standards level (ISO/IEC 11801:2011Ed2.2)



P126826

Actassi S-One and CL-MX. The perfect match.

Actassi S-One RJ45 connectors, the CL-MX cables and the flat high-density panel are all important parts of our total Cat 6A solution. Innovations like these enable faster installations, improved energy efficiency, more reliable operation and a minimum of maintenance.



Actassi 19" flat high-density panel with connectors placed at an angle, preventing the need of extra space for patch cords guiding panel.

Actassi CL-MX

Patented metallic crossfiller for superior EMC and reduced installation time.

- 1 Inner cross
- 2 Outer shielding
- 3 Double outer shielding
- 4 More copper for lower power consumption
- 5 Slim design for better cooling and 20% more filling.

One-piece design for faster installation.



PoE+

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

3x improved performance

The Actassi CL-MX Cat 6A cable

Three times shielding, faster installations and increased efficiency are the major advantages resulting in three times improved performance. The patented crossfiller is wrapped in one single foil, enabling remarkable benefits, such as minimum of cutting and maximum quality of the cable preparation. Also, thanks to the excellent shielding properties, the Actassi CL-MX cable provides outstanding link performance.

Connecting is a swift operation

The Actassi S-One RJ45 connector

Together with the CL-MX cable, the S-One connector allows you to handle connections up to 50% faster. Just insert the cable, close, cut and shut. The innovative one-piece design, automatic 360° cable earthing and smart locking function are features that make the S-One connector suitable for all kinds of applications and a joy for every installer.



Scan the QR-code to see the benefits.



Scan the QR-code to see the benefits.



Environment in focus

Energetic and environmental responsibility lies at the core of Schneider Electric culture and strategy. We strive to reduce the environmental impact of our products throughout their entire life-cycle, particularly through eco-design and eco-production.



Actassi is compliant with RoHS, the REACH European directives and PEP Eco passport. Product Environmental Profile available on request.



Actassi CL-MX cables is one example of Eco-design. Halogen-free, flame or fire retardant. In case of fire, the result of using Actassi CL-MX is the reduction of the emissions of opaque smoke and acid gases. Thus, it helps reducing damages to equipment and allows people to escape from the building more easily.

Eco-design

The European Union enacted an Energy using Products (EuP) framework directive in 2005 (directive on the eco-design of products) which seeks to promote eco-design approaches in priority sectors, or even to specify the aims of impacts for some products.

Although Schneider Electric's supply is outside of the EuP target, it generalises the eco-design approach to all its developmental activities and undertakes to communicate the environmental features of its products through Product Environmental Profiles (PEPs)

Product Environmental Profile

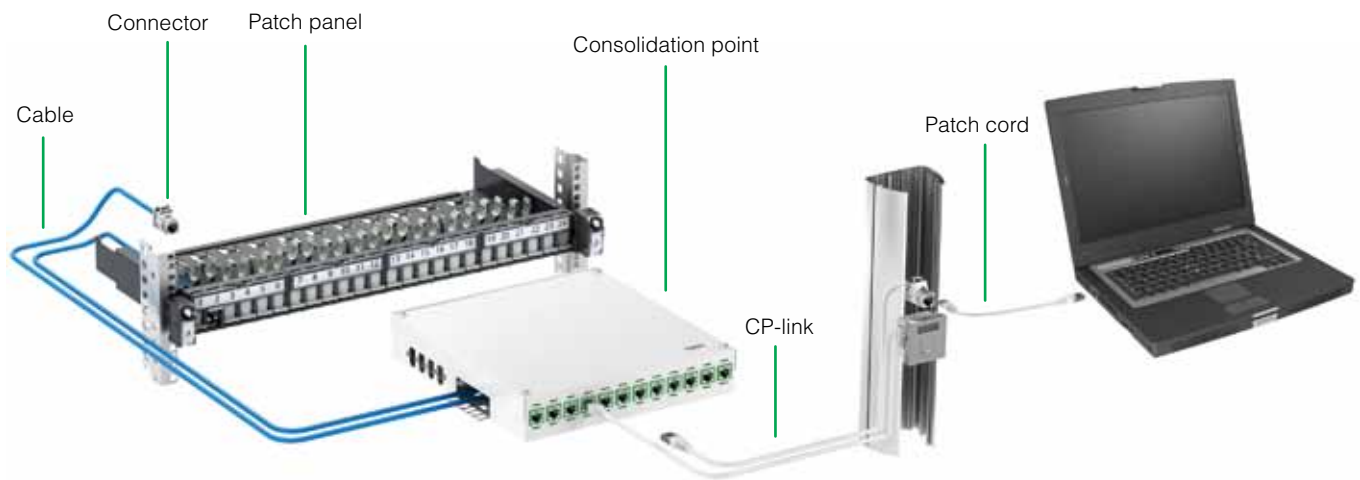
For each product Schneider Electric undertakes to publish a Product Environmental Profile (PEP). It provides customers with information on their environmental performances during their life cycle as well as the best treatment solutions at the end of their life. To ensure transparency and the validity of the data, it complies with ISO 14025* in an inter-professional programme which sets shared calculation and drafting rules for publishing the environmental impacts of products.













* ISO 14025 Environmental labels and declarations – Principles and procedures



Create a seamless end-to-end Cat 6_A shielded solution



Product	Ref. No	Description
 Actassi S-One RJ45 connector	VDIB1772XB12	RJ45 Connector Cat 6 _A shielded (box of 12)
 Actassi S-One DPM RJ45 connector	VDIB1771XB12	RJ45 Connector Cat 6 _A shielded DPM footprint (box of 12)
 Actassi 19-C panels	VDIG018241BX0	Basic empty sliding panel 1U STP 24 ports for Actassi S-One connectors
	VDIG118241BX0	Evolution sliding panel 1U equipped with 24 RJ45 Cat 6 _A STP Actassi S-One connectors
 Actassi 19-C guiding panel	VDIG188141	Patch cord guiding panel 1U with 4 openable rings
 Actassi HD 19-C panels	VDIG328241B	Empty flat 19" panel for connectors in angle 1U 24 ports
	VDIG328241BX0	Equipped flat 19" panel 1U with 24 RJ45 S-One connectors Cat 6 _A STP in angle
 Actassi 19-C guiding ring	VDIM189412	Vertical and openable side ring for vertical management of patch cords. 2U
 Actassi copper cables	VDIC63X318	CL-MNC Cat 6 _A F/UTP LSZH 4 pair cable (1000m)
	VDIC64X318	CL-MNC Cat 6 _A F/FTP LSZH 4 pair cable (1000m)
	VDIC68X318	CL-MX Cat 6 _A F/FTP LSZH 4 pair cable (1000m)
 OptiLine consolidation points	INS68200	12xVDI, one compartment
	INS68201	12xVDI / Installation couplers GST18, two compartments
 Actassi CP-link	VDICP4X00501	CL-MNC6 _A , CP Cabling S/FTP Cat 6 _A LSZH cable with Actassi S-One DPM connector 5 m length
 Actassi copper patch cord	VDIP185X46020	Patch cord S/FTP Cat 6 _A 2 m length

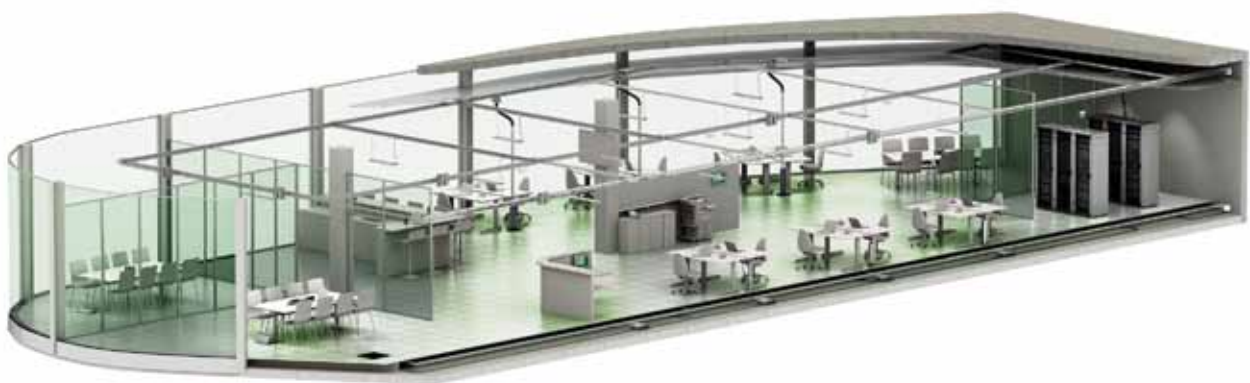


In the Actassi range you can also find Cat 6_A unshielded solutions.

Find all details about the full Actassi system on the Schneider Electric web site.

A total solution from enclosure to desktop

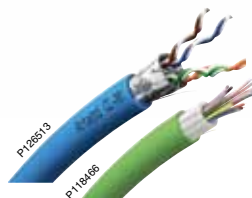
Actassi is our global state-of-the-art range for network and connectivity infrastructure. With enclosures and connectors, patch panels and cables, Actassi probably provides the best professional equipment on the market, making it easy to create an end-to-end, reliable and long-lasting Cat 6_A solution. Furthermore Actassi is fully integrated with other Schneider Electric solutions and products, such as the Total Office Performance system including products for infrastructure easy access to networks and power everywhere in the building.



P135043

Actassi 19" enclosures

A complete range of scalable and functional enclosures from 6U to 47U with different widths and depths. Easy to use with toolless components.



P128510

P118466

Actassi cables

Copper cables for day-to-day installations or for very high performance. The fibre cables support all kinds of network applications. Both are compliant with all international LAN standards.



P111437

Actassi patch panels

Sliding and quick-fix function, automatic earthing, quick-release button and rear cable identification.



P135044

Infrastructure

Combine cable support, such as mesh trays and cable ladders, with strategically placed consolidation points. The result is quick, reliable and flexible access to power and networks.



P121600

Actassi RJ45 connectors

Colour coding, smart bridle, U-shaped cable entry and automatic 360° earthing allow you to connect up to 50% faster.



P131650

OptiLine installation system

Posts, poles, pop-ups, boxes and trunking, enable elegant access to power, telecom and data everywhere.

* Make the most of your energy

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Schneider Electric Industries SAS
35 rue Joseph Monier
92500 Rueil-Malmaison
France
www.schneider-electric.com

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