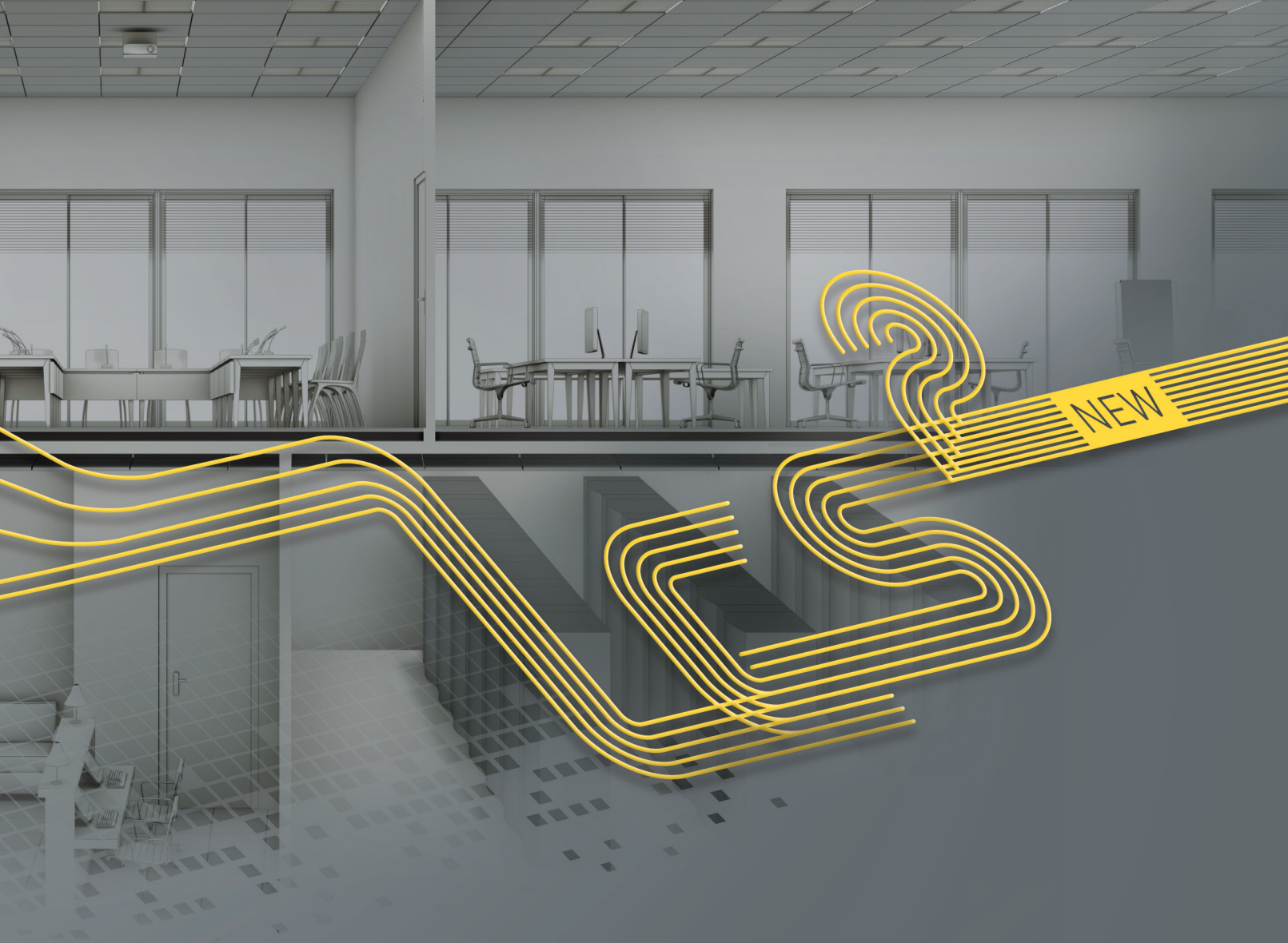


LEGRAND CABLING SYSTEM²

PERFORMANCE

FROM TECHNICAL ROOM TO WORKSTATION

legrand®



LEGRAND CABLING SYSTEM²



Solutions from technical room to workstation
See pages 02 to 13



LCS² copper
See pages 15 to 25



LCS² fibre optic
See pages 26 to 31



LCS² enclosures
See pages 32 to 43



LCS² workstation
See pages 44 to 53



LCS² services
See pages 54 to 57

Catalogue references
See pages 58 to 113





LCS² from technical room to workstation

LCS² Cabling system products

Complete systems with a 25-year guarantee.
The new LCS² cat. 6A (up to 500 MHz), cat. 6 (up to 250 MHz) and cat. 5e (up to 100 MHz) systems have been designed as coherent entities to optimise their performance.
The systems are suitable for optical fibre cables as well as copper cables.
See pages 14 to 43

Legrand Synergies

The new LCS² systems integrate perfectly in the various other Legrand solutions: DLP trunking system, cabling accessories, cable management, etc.
See pages 46 to 57

Towards network convergence.
The IP convergence products (IP telephony, IP remote monitoring, IP access control) can also be a part of the LCS² systems.

LCS²
APPLICATION
EXAMPLE

OFFICE



Area distribution box



RJ 45 socket



Access control





Patch panel



LCS²
APPLICATION
EXAMPLE

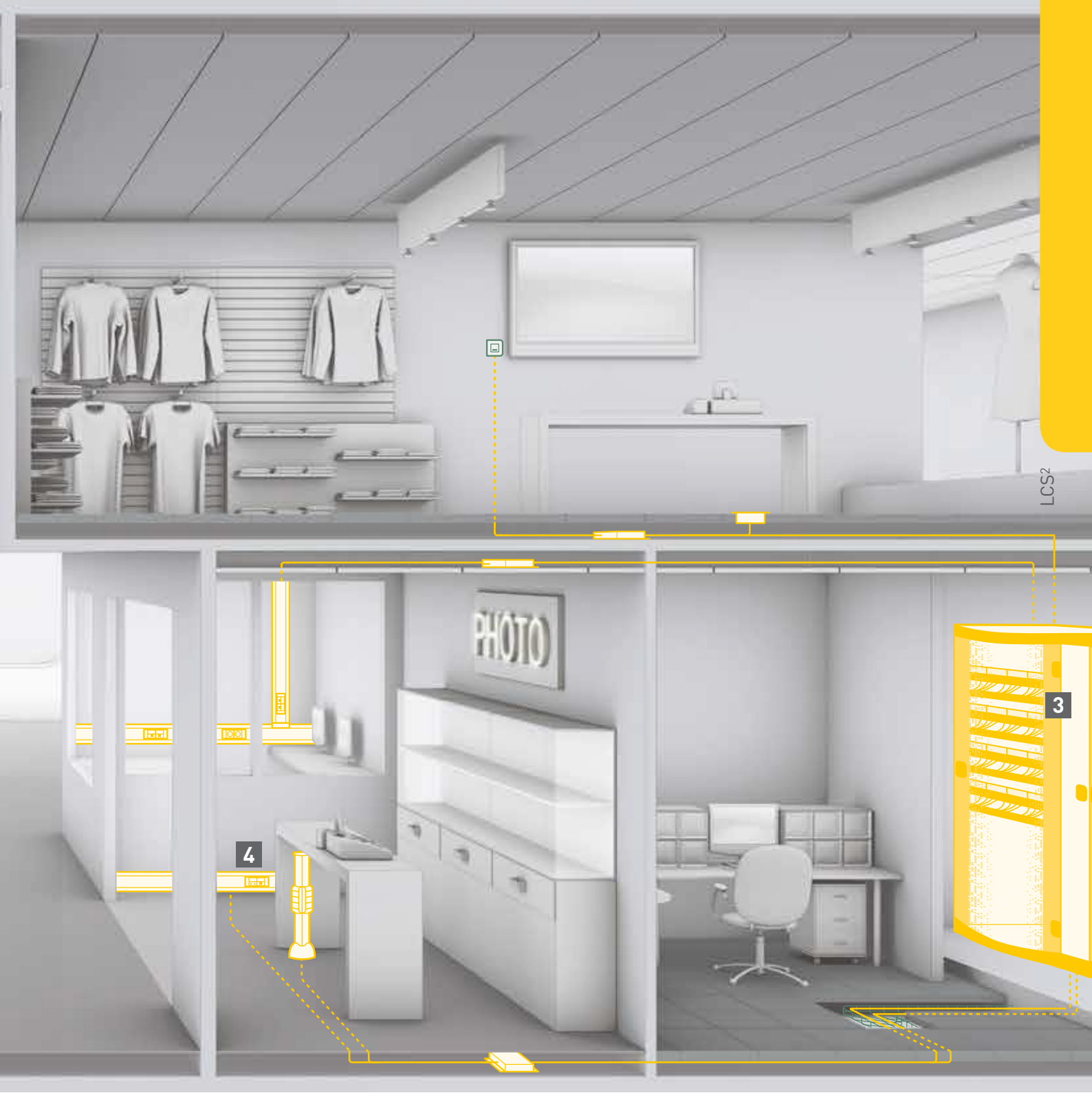
MALL CENTER



Switch Mosaic



Cablofil wire mesh





Cabling unit



Fibre optic socket



LCS²
APPLICATION
EXAMPLE

CAMPUS



AVS socket



DLP trunking system





Wi-Fi access point



RJ 45 with controlled access



LCS²
APPLICATION
EXAMPLE

HOTEL



RJ 45 sockets 45°



Retractable RJ 45 socket





Patch cord



19” wall-mounting cabinet



LCS² system the high performance solution

Guaranteed LCS² LINK

→ Channel performances:
+3dB crosstalk
+3dB return loss.

The LCS2 Cat.e5, Cat.6 and Cat6A solutions were designed to significantly exceed all application requirements in order to offer optimum performance and reliability.
Legrand guarantees LCS2 installed channel performances exceeding all crosstalk an return loss requirements by 3dB* when covered by the 25-year performance warranty.

*Products and testing equipment must be approved by Legrand for the +3dB guarantee programme. Some restrictions apply.

GUARANTEED APPLICATIONS

10Base-T	Cat.5e and above
100Base-T	Cat.5e and above
1000Base-T	Cat.5e and above
1000Base-TX	Cat.6 and above
10GBase-T	Cat.6A and above

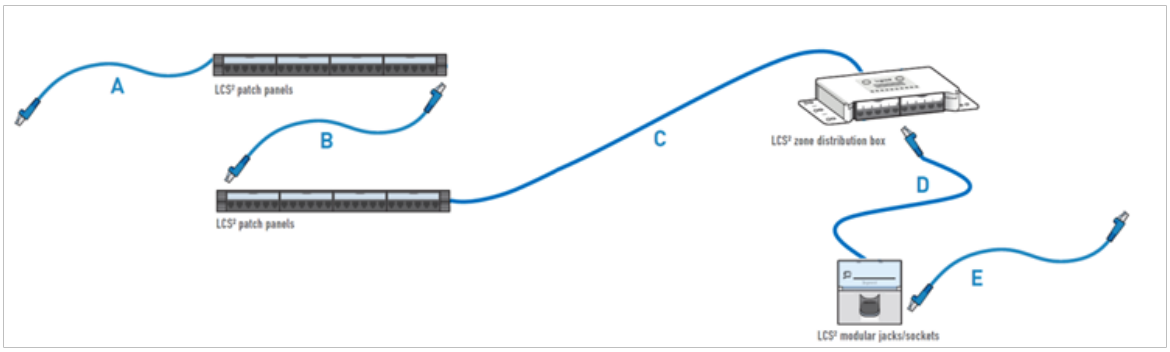
4-CONNECTOR CHANNEL

The LCS2 channel is designed to offer flexibility. Legrand LCS2 solutions have been designed to optimize application performance by using all standard channel lengths and configuration, up to the 4-connector 100 meter channel.

COMPLIANCE WITH STANDARDS

ANSI/TIE/EIA 568-C2
ISO/IEC – 11801 (second edition) Class EA amendment 2

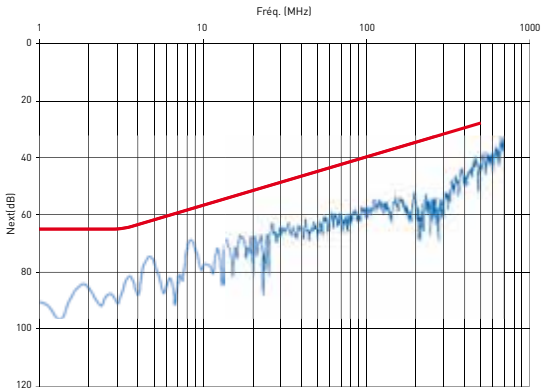
A+C+E ≤ 10m, B+C ≤ 90m



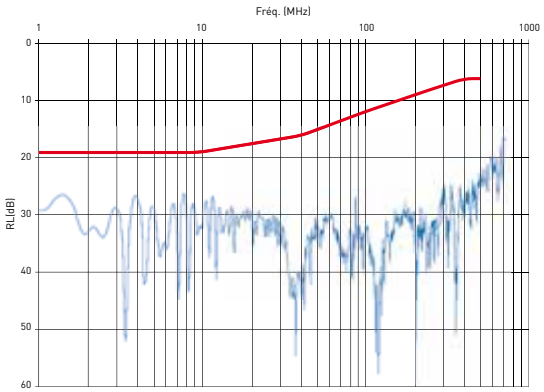
A: Single ended replication cord
B: Patch Cord
C: Horizontal cable
D: Single ended consolation cord
E: User cord

LCS² category 6A performances

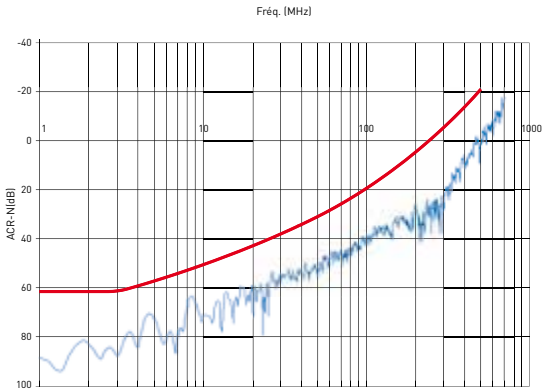
The results of independent trials shown below allow comparison of worst performance obtained from a 100-metre LCS² channel with 4 connectors conforming with ISO standard category 6A specifications. The significant margins shown for each measured parameter demonstrate the technical superiority of the LCS² category 6A solution. These performance margins are consistent across the ISO/TIA standard tested frequency range and even beyond.



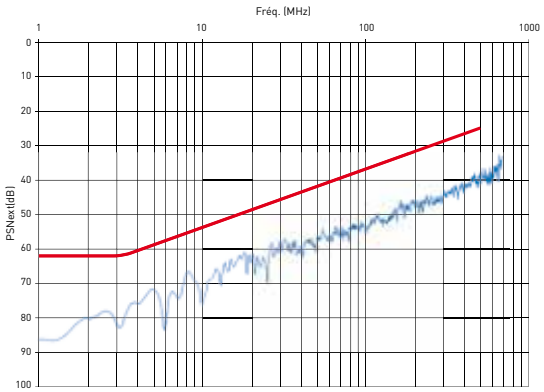
NEXT



RETURN LOSS



ACR-N



PS NEXT

Frequency (MHz)	NEXT (dB) ISO11801 Channel Class Ea	NEXT (dB) LCS² Channel Class Ea	ACR-N (dB) ISO11801 Channel Class Ea	ACR-N (dB) LCS² Channel Class Ea	RL (dB) ISO11801 Channel Class Ea	RL (dB) LCS² Channel Class Ea	PS NEXT (dB) ISO11801 Channel Class Ea	PS NEXT (dB) LCS² Channel Class Ea	PS ACR-N (dB) ISO11801 Channel Class Ea	PS ACR-N (dB) LCS² Channel Class Ea	ACR-F (dB) ISO11801 Channel Class Ea	ACR-F (dB) LCS² Channel Class Ea	PS ACR-F (dB) ISO11801 Channel Class Ea	PS ACR-F (dB) LCS² Channel Class Ea
1	65	68	61	64	19	22	62	65	58	61	63.3	66.3	60.3	63.3
4	63	66	58.9	61.9	19	22	60.5	63.5	56.4	59.4	51.2	54.2	48.2	51.2
10	56.6	59.6	50.1	53.1	19	22	54	57	47.5	50.5	43.3	46.3	40.3	43.3
20	51.6	54.6	42.5	45.5	17.5	20.5	49	52	39.8	42.8	37.2	40.2	34.2	37.2
31.25	48.4	51.4	36.9	39.9	16.5	19.5	45.7	48.7	34.2	37.2	33.4	36.4	30.4	33.4
62.5	43.4	46.4	27	30	14	17	40.6	43.6	24.2	27.2	27.3	30.3	24.3	27.3
100	39.9	42.9	19	22	12	15	37.1	40.1	16.2	19.2	23.3	26.3	20.3	23.3
200	34.8	37.8	4.7	7.7	9	12	31.9	34.9	1.8	4.8	17.2	20.2	14.2	17.2
250	33.1	36.1	-0.8	2.2	8	11	30.2	33.2	-3.7	-0.7	15.3	18.3	12.3	15.3
300	31.7	34.7	-5.6	-2.6	7.2	10.2	28.8	31.8	-8.6	-5.6	13.7	16.7	10.7	13.7
400	29.6	32.6	-14.1	-11.1	6	9	26.6	29.6	-17.1	-14.1	11.2	14.2	8.2	11.2
500	27.9	30.9	-21.4	-18.4	6	9	24.8	27.8	-24.5	-21.5	9.3	12.3	6.3	9.3





LCS² COPPER

A complete system for higher performance



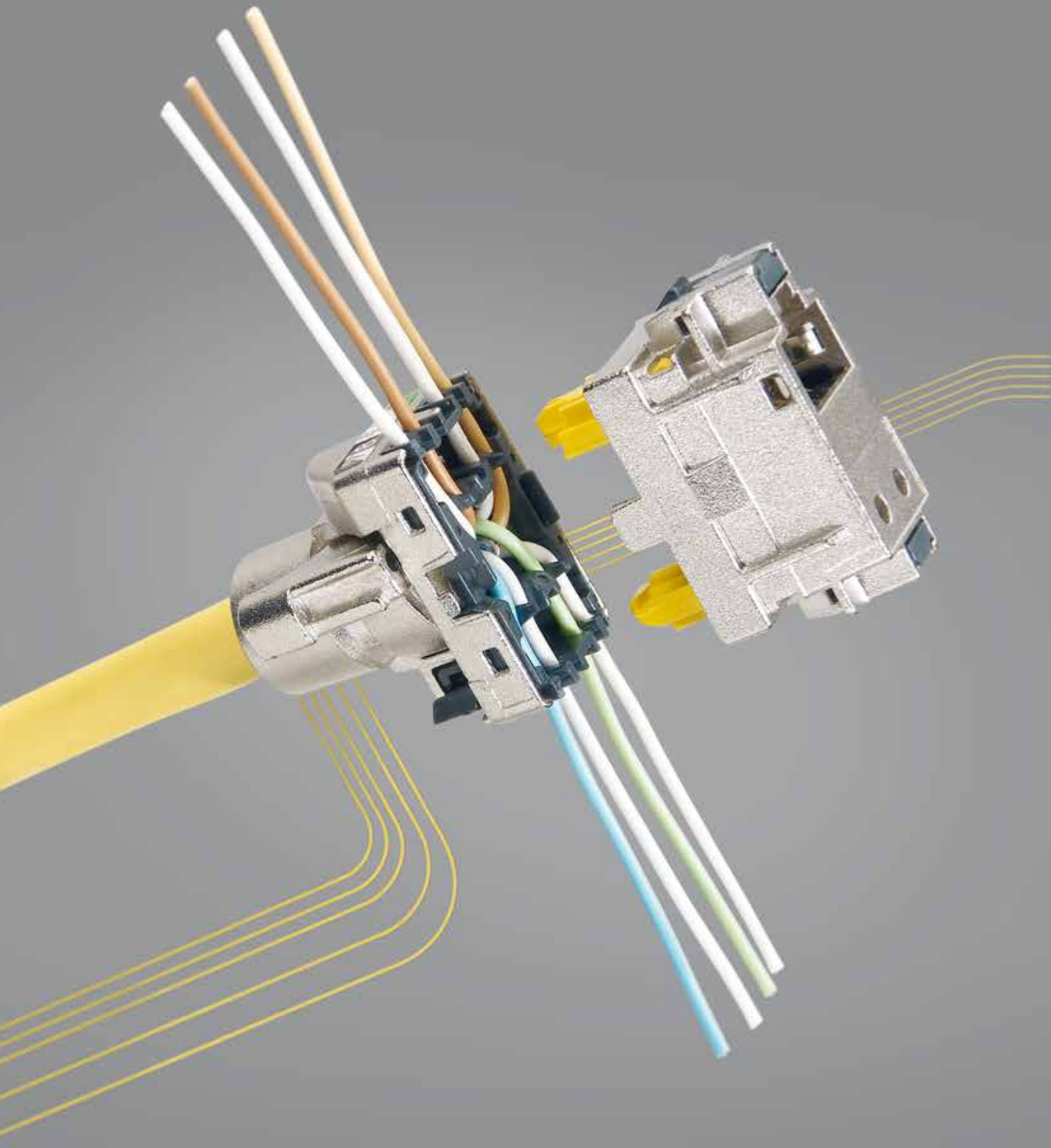
Connectors
See pages 16 to 19



Patch panels
See pages 21 to 23

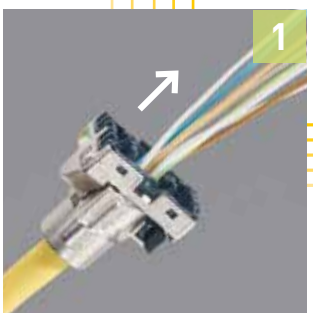


Patch cords and cables
See pages 24 to 25

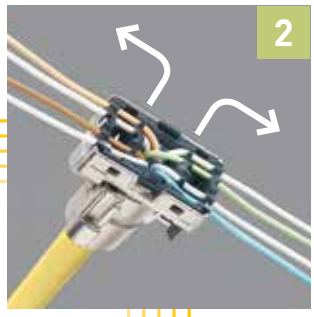


New LCS² connector
Performance of the installation

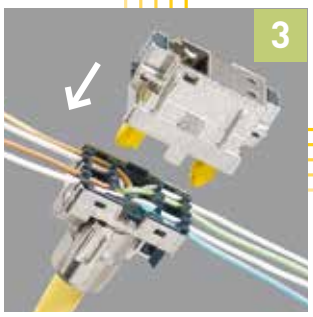
RJ 45 connector is the core element contributing to the performance of the LCS² system.
You can obtain a perfect connection within a few seconds guaranteeing an optimum performance of the link from the patch panel to the RJ 45 socket (see page 50).



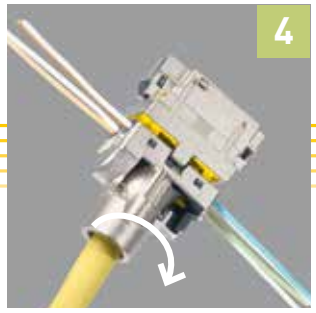
Insert the cable in the rear part
Visibility of the marking as per the TIA/EIA code.
Takes all cables currently available on the market: U/UTP, F/UTP and SF/UTP.



Separate and insert the strands
Intuitively maintain 13 mm, no need to measure.



Add the upper part of the connector
The tamperproof insert gives ease of movement.



Turn to guarantee the connection
Simply turn to flatten the strands simultaneously. Cut them, and the connector is ready!

New connector LCS² Performance in all categories

The new LCS² connector with fast connection thanks to integrated crimping is available in all categories for mounting in patch panels or workstations.



Connector LCS²
Cat. 6_A STP shielded
500 MHz - 10 Giga.



Connector LCS²
Cat. 6 STP shielded
250 MHz - 1 Giga.



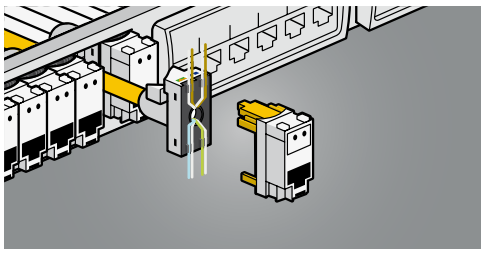
Connector LCS²
Cat. 6 FTP and UTP
250 MHz - 1 Giga.

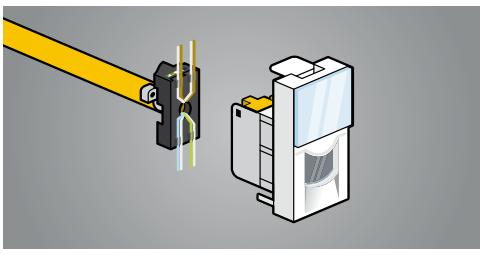


Connector LCS²
Cat. 5e FTP and UTP.

2 ergonomic options

- Patch panels.
- Workstation.

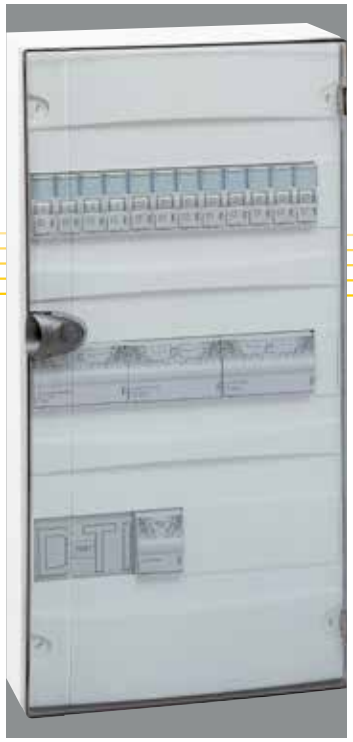




New connector LCS² DIN solution

The Legrand DIN solutions are perfectly adapted for the new residential needs. They allow distribution of triple play services in the home in an aesthetic design.







The DIN RJ45 modules, switches and splitters are mounted in a manner that conceals the patch cords in the cabinet.




Bur3
5
Bur3
6

New LCS² Patch panels Performance of maintenance

The design of the new LCS² patch panels optimises the maintenance.
Maintaining the cables with cable guides, blocks of 6 RJ 45 connectors.



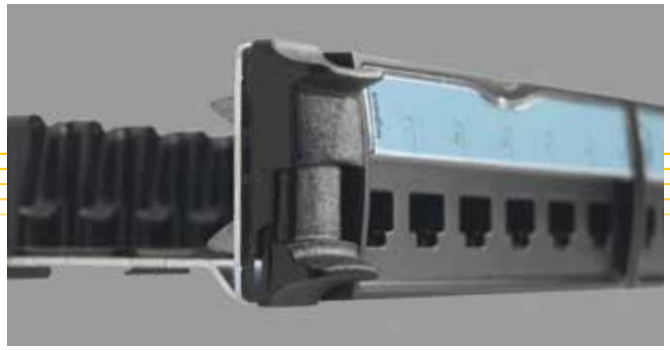
Better fixing by clamp
Cable maintained in its cable guide.



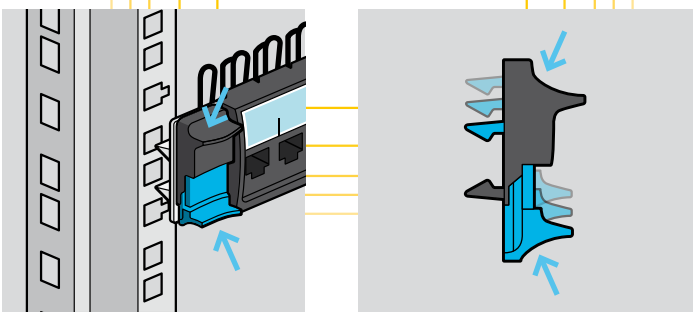
Room for maintenance
Simple unclipping of LCS² connectors.

New LCS² Patch panels Performance in implementation

Quick fixing
The innovative quick-fixing system provides speed and all-purpose benefits for assembling the 19" panel



Panels provided with quick-fixing system
Universal mounting



Fast clipping of the patch panel.

The new LCS² panels can also be fitted with:



Telephone block



FC type video broadcast block



LC fibre optic cassette

New LCS² Patch panels
The density performance

The LCS² high density provide a satisfactory bending radius and avoid the need to use a feedthrough panel.



24-port 1U high density available in Cat. 6 and Cat6$_A$ categories.

Legrand cables and cords coherence and performance

To ensure total coherence of its LCS² cat. 6A, cat. 6 and cat. 5e systems,
Legrand offers a range of 4 twisted pair cables in the four types: U/UTP, F/UTP, S/FTP, SF/UTP.



Legrand cat. 6A F/UTP cable.

High-quality manufacturing

Manufactured to high quality standards, with thicker insulation to reduce the effects of crosstalk, and reduction of the twist pitch of the pairs: the quality of Legrand cables is suitable for the LCS² category 6A, category 6 and category 5e systems, ensuring high performance from the patch panel right through to the RJ 45 socket. What's more, Legrand offers its cables in 2 versions with sheaths suitable for different environments: LSZH and PVC. The 3P laboratory has certified all the Legrand cables to be compliant with the ISO IS 11 801, EN 50173-1 standards and TIA/EIA-568-C.2.

See catalogue pages

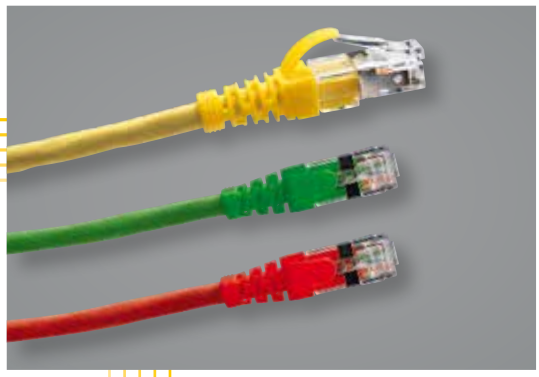


Legrand cat. 6 F/UTP cable.



Legrand cat. 6 SF/UTP cable.

	SHEATH	MARKING	STORAGE/TRANSPORT TEMPERATURE	OPERATING TEMPERATURE
CAT. 6A F/UTP CABLE 100 OHMS	LSZH in accordance with NFC 32062 with flame retardant effect in accordance with IEC 60332-1 & NFC 32070 2.1 Ø 7.8 mm - Colour yellow RAL 1018	LEGRAND 32778 4 pair 24 AWG F/UTP 100 ohms LSZH CAT. 6A 500 MHz - VERIFIED TO ISO 11801 IEC 60332-1 EN 50173 - TIA/EIA 568C - VPN/NVP .....% Batch no. + length in metres	0 to +50 °C	-20 to +60 °C
CAT. 6 U/UTP CABLE 100 OHMS	PVC or LSZH in accordance with NFC 32062 with flame retardant effect in accordance with IEC 60332-1 & NFC 32070 2.1 Ø 6.4 mm - Colour blue RAL 5015	LEGRAND (4 pair or 2x4 pair) 24 AWG UTP 100 ohms 250 Mhz (PVC or LSZH) CAT. 6 250 MHz - EC VERIFIED TO ISO 11801 IEC 60332-1 EN 50173-1 TIA/EIA 568A Batch no. + length in metres	0 to +50 °C	-20 to +60 °C
CAT. 6 F/UTP CABLE 100 OHMS	PVC or LSZH in accordance with NFC 32062 with flame retardant effect in accordance with IEC 60332-1 & NFC 32070 2.1 Synthetic water repellent tape Ø 7 mm - Colour blue RAL 5015	LEGRAND (4 pair or 2x4 pair) 24 AWG FTP 100 ohms 250 Mhz (PVC or LSZH) CAT. 6 250 MHz - EC VERIFIED TO ISO 11801 IEC 60332-1 EN 50173-1 TIA/EIA 568A Batch no. + length in metres	0 to +50 °C	-20 to +60 °C
CAT. 6 SF/UTP CABLE 100 OHMS	PVC or LSZH in accordance with NFC 32062 with flame retardant effect in accordance with IEC 60332-1 & NFC 32070 2.1 Synthetic water repellent tape Ø 7.7 mm - Colour blue RAL 5015	LEGRAND 4 pair 24 AWG SFTP 100 ohms 250 Mhz (PVC or LSZH) CAT. 6 250 MHz - EC VERIFIED TO ISO 11801 IEC 60332-1 EN 50173-1 TIA/EIA 568A Batch no. + length in metres	0 to +50 °C	-20 to +60 °C
CAT. 5e U/UTP CABLE 100 OHMS	PVC or LSZH in accordance with NFC 32062 with flame retardant effect in accordance with IEC 60332-1 & NFC 32070 2.1 Ø 5.2 mm - Colour light grey RAL 7035	LEGRAND CAT.NO (4 pair or 2x4 pair) 24 AWG UTP 100 ohms (PVC or LSZH) CAT. 5e EC VERIFIED TO ISO 11801 IEC 60332-1 EN 50173-1 TIA/EIA 568A Batch no. + length in metres	-15 to +70 °C	+5 to +40 °C
CAT. 5e F/UTP CABLE 100 OHMS	PVC or LSZH in accordance with NFC 32062 with flame retardant effect in accordance with IEC 60332-1 & NFC 32070 2.1 Ø 5.5 mm - Colour light grey RAL 7035	LEGRAND CAT.NO (4 pair or 2x4 pair) CAT. 5e EC VERIFIED TO ISO 11801 IEC 60332-1 EN 50173-1 TIA/EIA 568A Batch no. + length in metres	-15 to +70 °C	+5 to +40 °C



Ensure high-quality continuity:perfect plug connection and transmission performance... Available in several colours.

Individually tested cords

Legrand patch cords ensure high-quality continuity in a cabling system like other components. Legrand therefore takes the same care with the quality of its complete range of RJ 45 cords, which are certified as compliant with the standards. See catalogue pages

Tests on all parameters

Legrand cords are individually tested, both for continuity and transmission performance. All the parameters are measured: CR, ACR, NEXT, Return loss, Attenuation, etc. Cords which do not meet the criteria are rejected. These tests guarantee transmission performance from one end of the system to the other.

Universal cords

Available in cat. 6A, cat. 6 and cat. 5e versions and in the three cabling types (U/UTP, F/UTP and SF/UTP). Legrand cords are available in different lengths, thus offering considerable flexibility of use.





LCS² FIBRE OPTIC

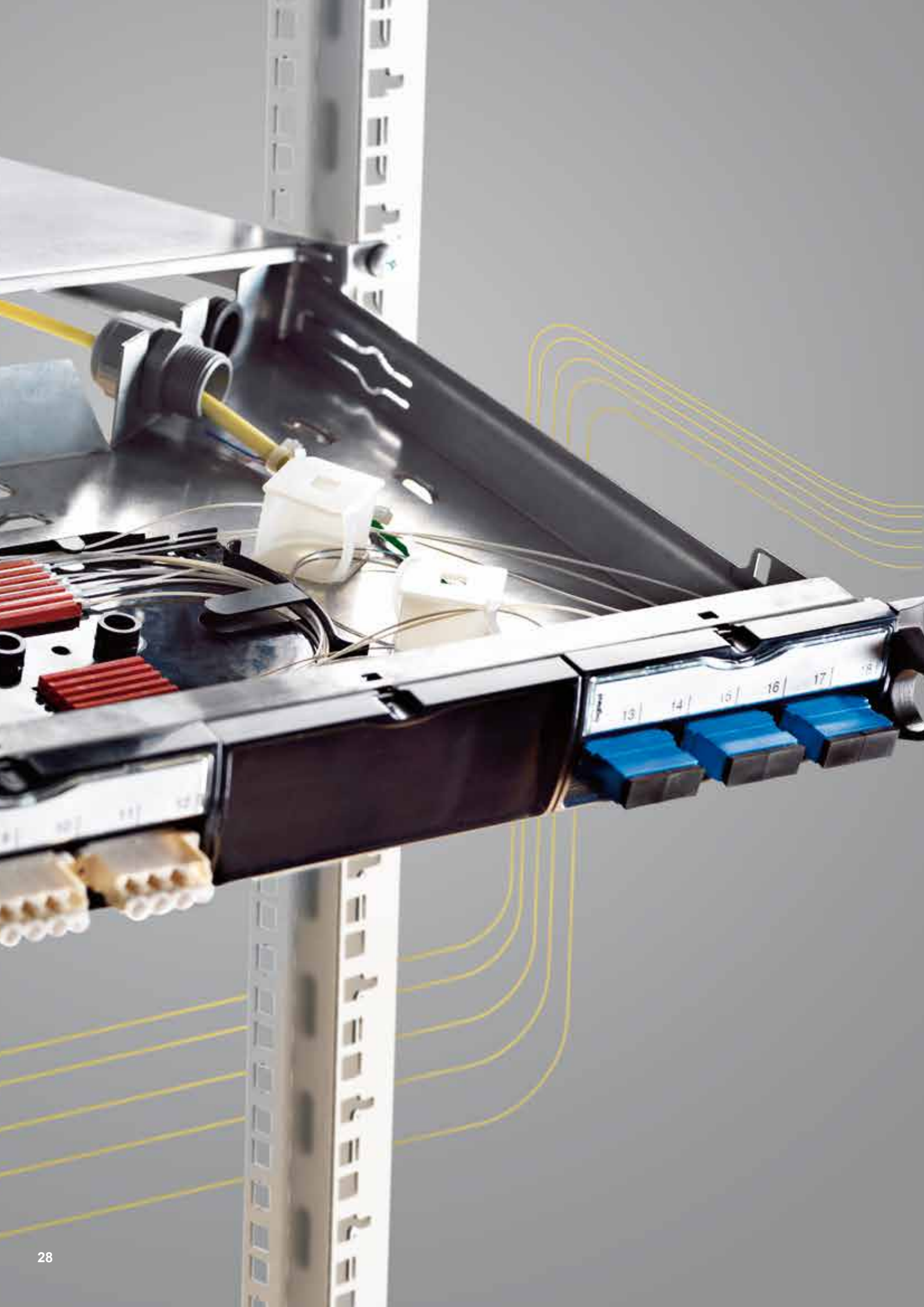
A simple and reliable option



Fibre optic drawers
See pages 28 to 29



Connecting fibres
See pages 30 to 31



LCS² Fibre optic drawer

Complete accessibility and ease in coiling

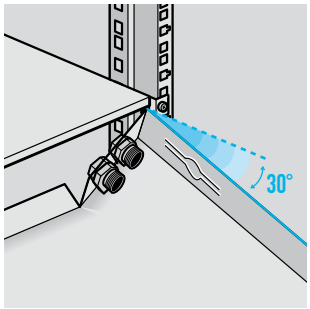
The LCS² Fibre optic drawer gives a better comfort in installation and maintenance.
Reinforcements facilitating the opening and closing, end stop inclined at 30° for complete accessibility, coiling the fibres ensured by the in-built coiling accessories...



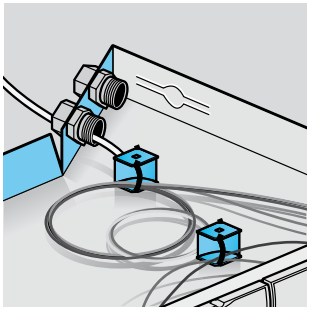
19'' Fibre optic drawer
Up to 4 fibre optic blocks can be fitted:
from 24 fibres ST or SC, 48 fibres LC.
Equipped with grip handles.
Height: Modular 1U.



High density fibre panel
2U with front patch cord management



Total accessibility
End stop, inclined at 30°.



Easier cable management.
Integrated coiling accessories.
Rear in the form of a tail
to facilitate connection of incoming cables.

Can take all fibre optic connector blocks



LC connector block
19" Fibre optic drawer



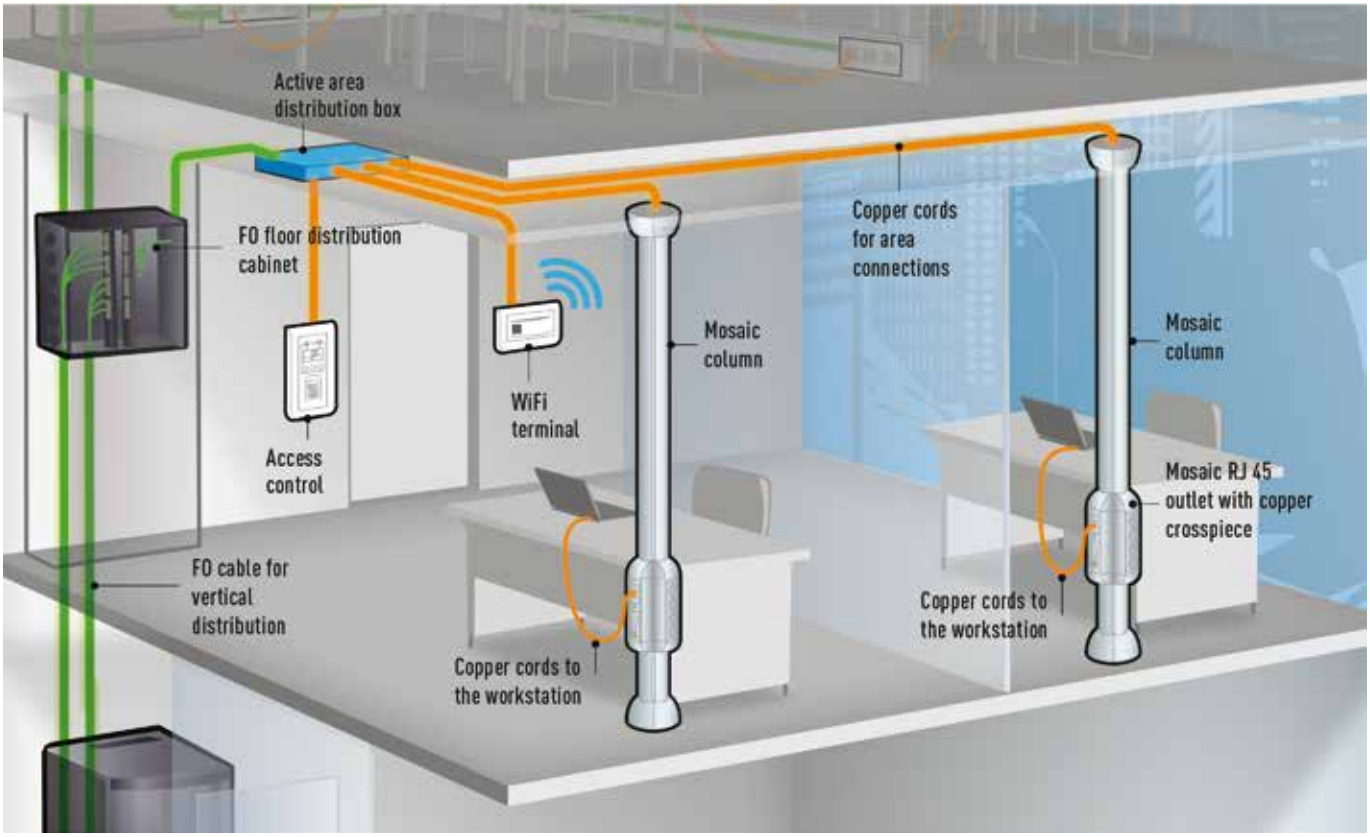
SC connector block
19" Fibre optic drawer



SC connector block
19" High density fibre optic drawer

LCS2 Fibre Solutions
FTTO design

The new FTTO solutions offer improved flexibility and OPEX.
The Fibre To The Office design can greatly reduce the amount of cabling required, as well as improve the flexibility for the users. Associated with the plug-and-play solutions from Legrand, this allows very rapid network deployments.



OPTIMISED SURFACE AREA	60% less technical equipment room space
ENERGY SAVING	-10% energy consumption for data transmission
ENHANCED PERFORMANCE	300 metres with a guaranteed speed of 10 Gigabits
IMPROVED DENSITY	1 FO cable = 12 copper cables





Pre-fitted fibre optic

Pre-fitted fibre optic links on demand: save time and cut risk to a minimum.

Order your own individual solution: pre-fitted and factory tested, it will save you time on site while ensuring a high level of link reliability. This minimises the risk of malfunction during the installation, thereby simplifying the acceptance test.

What is delivered?

Each link is supplied with a test report. Length stands from connector to connector, in metres. Links up to 50 m are conditioned in boxes (reel optional) and those over 50 m are supplied by reel. Connectors are protected by a sheath. Pulling ring included. Multimode 62.5/125 µm cable complies with OM1 category, 50/125 µm with OM2 or OM3 category and single mode with OS1 category.

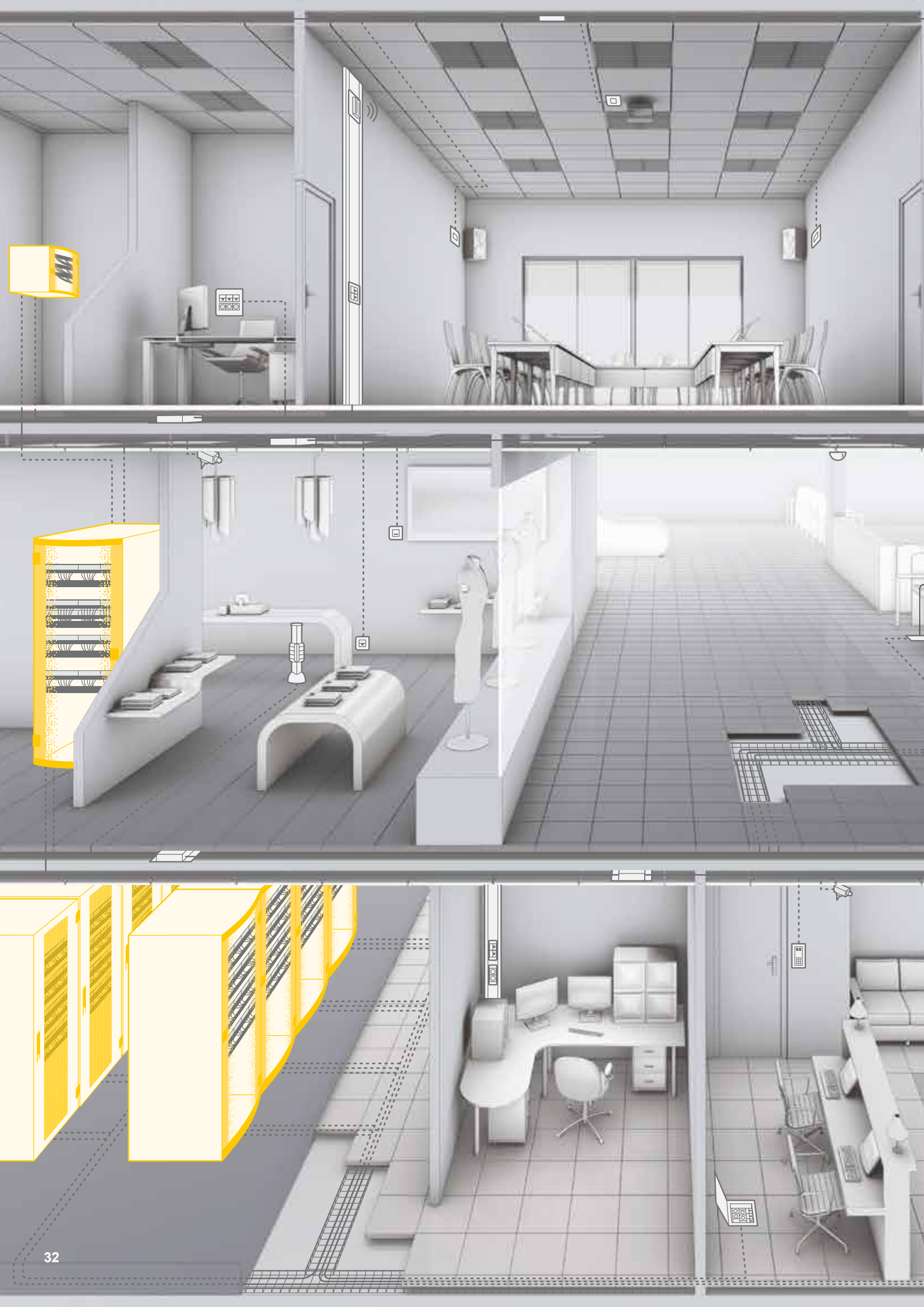




How to order

1. Once your preparatory installation work is done, determine the required length of cable.
2. Indicate the required type of fibre:
   - indoor, indoor/outdoor or outdoor
   - multimode 62.5/125 µm or 50/125 µm or single mode 9/125 µm
   - number of cores (4, 6, 12, 24 for indoor applications, outdoor applications and indoor/outdoor applications)
3. Specify the type of connector: ST, SC or LC.
4. State your preferred form of delivery: box or reel.

For further information
Please contact us!





LCS² ENCLOSURES AND CABINETS

Easy installation and efficient maintenance



Enclosures
See pages 34 to 37



Racks
See pages 38 to 39



Server enclosures
See pages 40 to 41



Wall mounted cabinets
See pages 42 to 43


4
1
2
5
3

19'' LCS² enclosures
Optimised management of cables and patch cords

The design of the new LCS² enclosures facilitates managing the cables and patch cords.
Easy association of a unit dedicated for cords, cable entry at the top made easy, new feedthrough panels for perfect organisation of patching...



1

Enclosures
The structure allows easy cable entry at the top and bottom of the enclosure. In the case of reduced room access space the structure can be completely dismantled.



5

Respecting of the bending radius
Cable management panels with rings to guide and protect the patch cords.



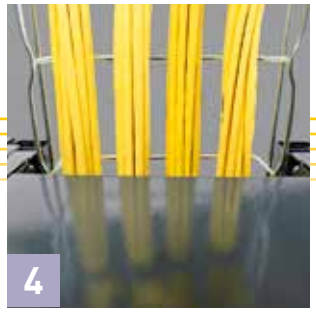
2

Optimised cable management
The enclosures are offering lots of space besides the 19" uprights to guide and fix large quantities of cables.



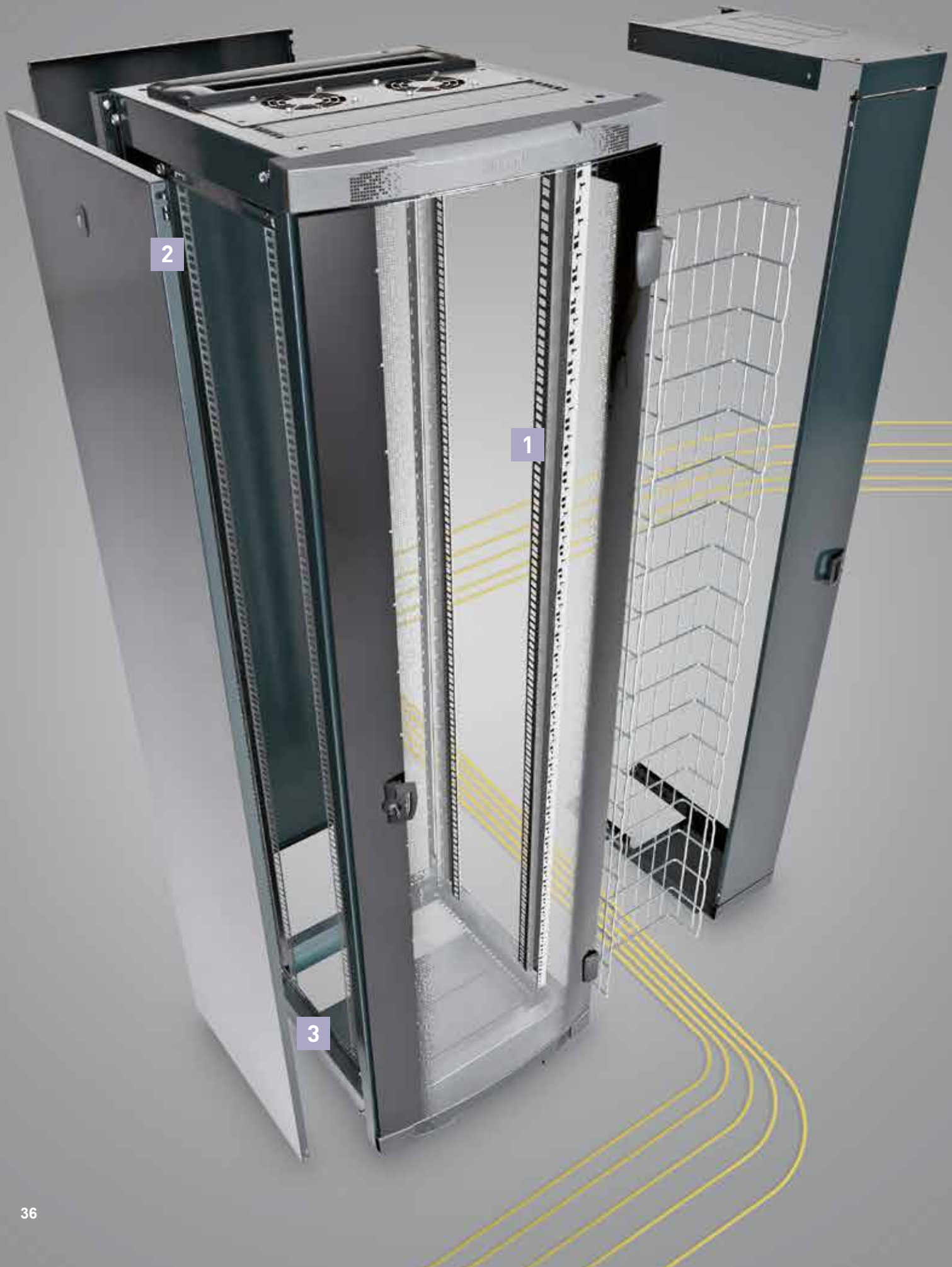
3

Linking interface
Protects the cables and guarantees the bending radius between enclosure and cable trunking.



4

Easy cable entry
Enclosure and cable management unit are equipped with pre-cuts (19") that accept cable feedthrough panels.


2
1
3

19'' LCS² enclosures simplified assembly

The new LCS² enclosures can be very easily assembled and dismantled.
A considerable time-saving on the sites, complete accessibility thanks to the removable side and rear panels and a structure that can be entirely dismantled.



Easy installation
Dual marking of 19" uprights.



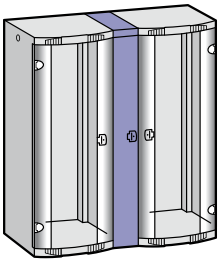


Total accessibility
A structure that can be completely dismantled.

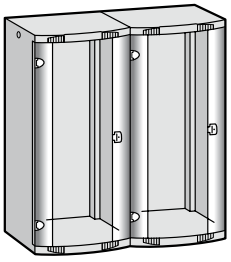


Automatic grounding clip
Guarantee of grounding for the side and rear panels with the automatic grounding clip.

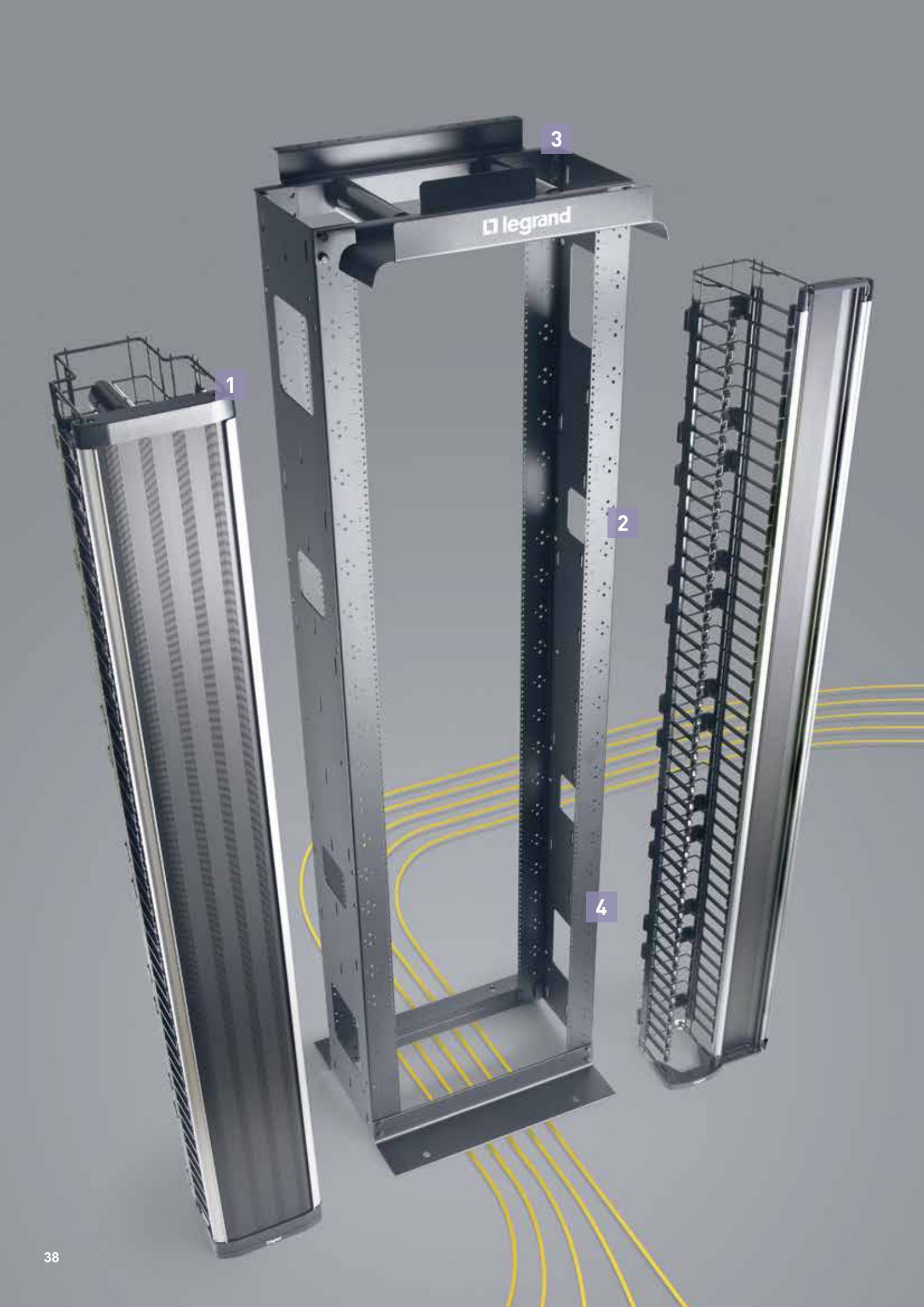
Combinations that answer various needs



Two 600-mm-wide enclosures with a cabling unit.



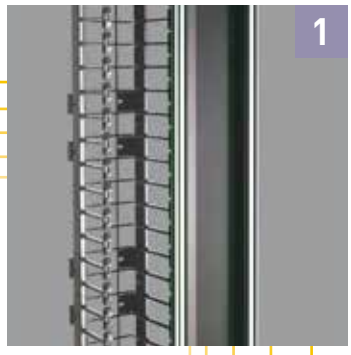
Two 800-mm-wide enclosures side by side.


3
legrand
1
2
4

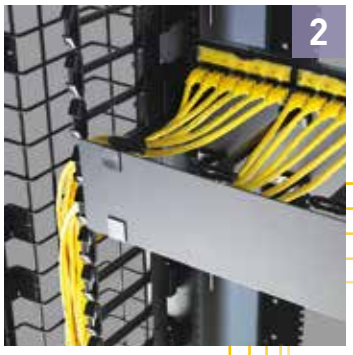
LCS² 19" racks
Advanced cable management

The new LCS² racks offer full cable management for optimizing your network performance.
In addition to the support strength, the LCS² cable management systems provide flexibility from the system design stage through to any future extensions.

Innovative cord management cages
With individual conduit for each rack unit and door that opens in both directions.

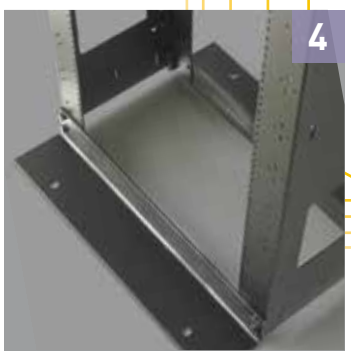


Cord management panels with cover
With conduits for vertical and horizontal cord organization.



Integrated upper trunking
For compliance with the bending radius and organized running of cords.





Light stainless-steel aluminium construction
With black powder finish, resistant to marks and scratches.


2
3
1

LCS² 19" Server enclosures
Complete accessibility

The new LCS² server enclosures are designed for complete accessibility.
Complete accessibility not only via the doors and panels, but also thanks to the rooftop pre-cuts and opening of the enclosure below.





Doors and panels with keyless lock system
- front door with handle
- perforated front and rear doors - 80% microperforation.



Cable entry
- 19" High pre-cuts
- open bottom.

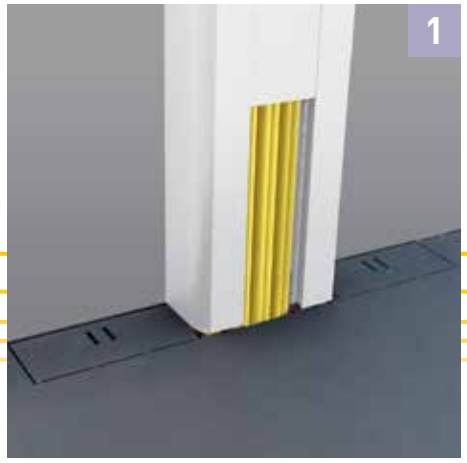


Cable ducting
Support with screwless tray fixing - Cablofil.


1
2
3

19''LCS² cabinets
Easy access, high-quality finish

The new LCS² wall-mounting cabinets can be fitted anywhere where maintaining aesthetic quality is very important.
The removable side panels and flexible cable entries (in the fixed cabinets) facilitate access for quick installation and easy maintenance.



Flexible cable entries
In DLP trunking system format.

Total accessibility
Also available with pivoting body to enable easy access at the back. Removable side panels on all LCS² cabinets.





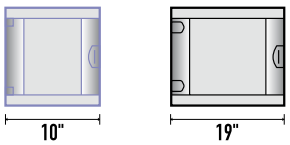


High-quality finish
Curved door, screen-printed glass.

Also available in 10'' version



Compact:
LCS² cabinet for small businesses.







LCS² WORKSTATION

The network at your hand



Zone distribution boxes
See pages 46 to 47



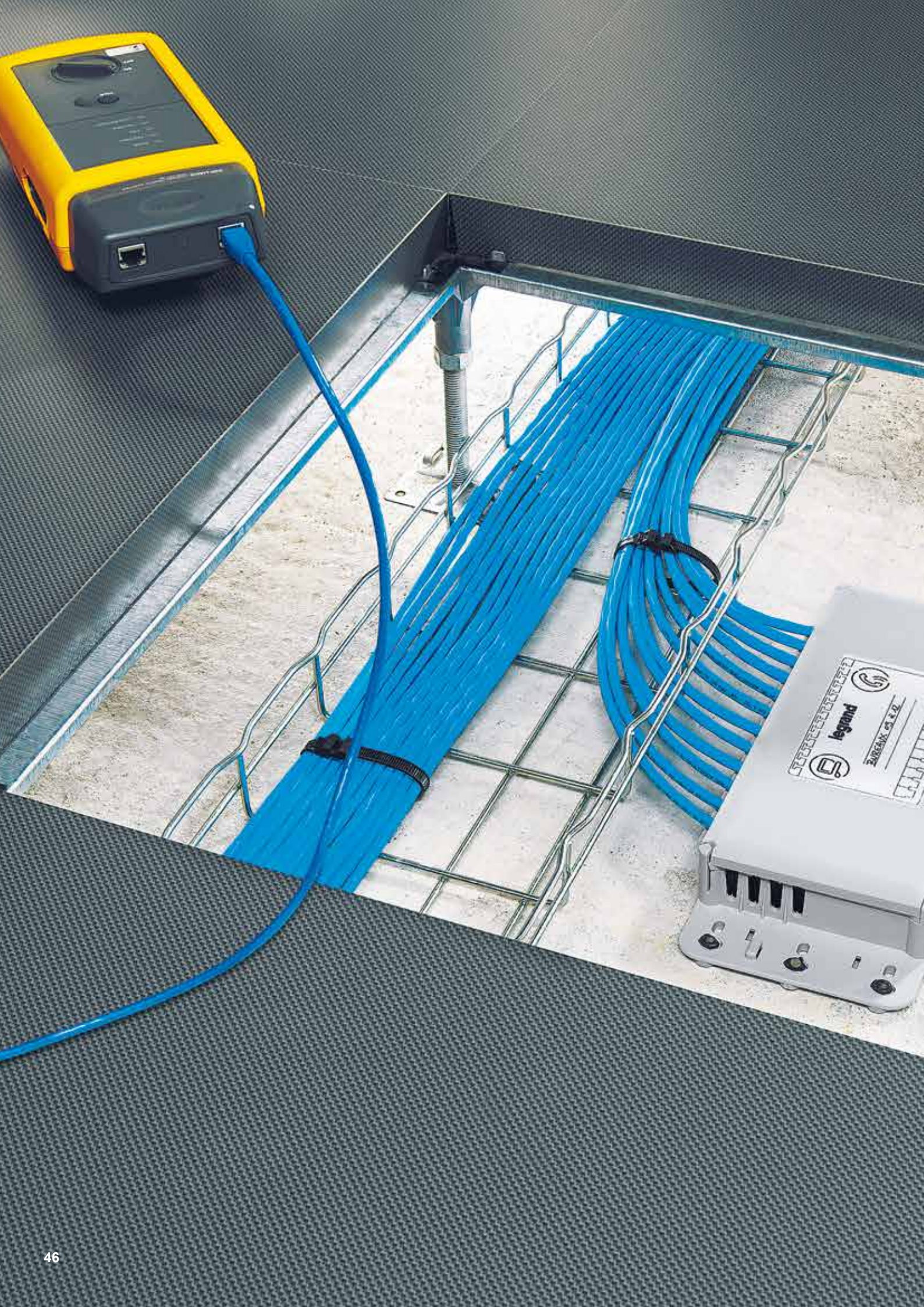
Installation supports
See pages 48 to 49



RJ 45 Sockets
See pages 50 to 51



Wi-Fi
See pages 52 to 53


legrand

Zone distribution boxes of LCS² consolidate and redistribute with complete ease

With the new LCS² zone distribution boxes connected to the Mosaic or Arteor feedthrough sockets, the result is complete flexibility.
The connections close to the workstation are centralised, copper and fibre optic are in a single box, etc. and the LCS² performances are guaranteed.



2 blocks of 6 connectors can be fitted to connect up to 12 RJ 45 sockets
Distribution close to the installation supports (see next page).

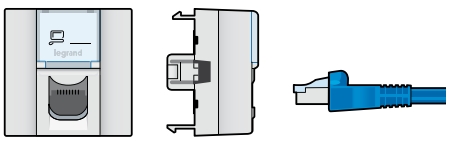


Fibre optic/RJ 45 union
Copper and fibre are placed side by side in the same box.

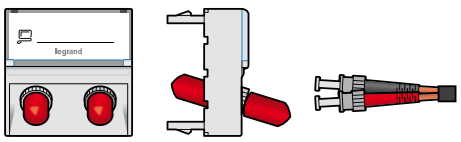


Coil rack
For fibre optic.

LCS² Mosaic feedthrough sockets: Quick and reliable connection, installation on all supports



RJ 45 socket with copper feedthrough for RJ 45 – RJ 45 cord.



2 x ST fibre optic feedthrough socket for optical patch cord.


2
4
7
1
8
5
6
3

Installation support cable management systems

Network within reach.
On the wall with trunking, on the ceiling with columns, on the ground with floor boxes and desktop multi-outlet extensions or nearby with blocks and mini-columns. They are suitable for all work space configurations.

1

Mini-columns

2

Columns

3

Cablofil

4

Snap-on trunking

5

Floor boxes

6

Desktop multi-outlet extensions

7

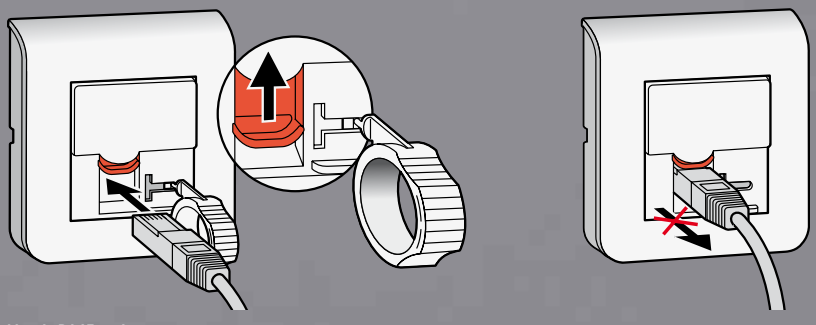
Meeting room modules

8

Office modules

End-to-end solutions:
Legrand cable management systems allow distribution of VDI cables and power cables from the point of entry to the workstation.





Mosaic RJ 45 socket
with controlled access

Organisation and safety with the new Mosaic sockets

In the technical room, in a false ceiling or in the floor boxes and desktop multi-outlet extensions, it is necessary to identify the special networks at a single glance.
Video surveillance, access control, adjusting the air conditioning, sensitive devices, etc.
The Mosaic LCS² sockets have a coloured cover, consistent with high-current sockets.

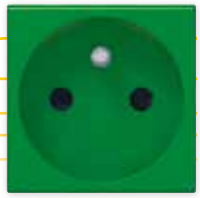
Identify the protected supply networks to ensure the protection of sensitive applications (for example: medical equipment).



Identify and restrict access to the uninterrupted power supply networks to ensure continuous power supply to computer equipment.



Structure the special supply networks to isolate the specific equipment in the building.





Structure and protect the networks by insulating the sensitive applications.



Identify the sensitive information networks and control their access using a cover that can be unlocked using a key.



Structure the remote-supply networks (PoE injector) to use telephone, video applications on IP, etc.

RJ 45 Sockets with high standards of Legrand accessories



Mosaic
White or aluminium



Céliane
Pleasing to the eyes



Soliroc
IK 20 protection



Wi-Fi that can be installed just like RJ 45 sockets

Wi-Fi access points can be fitted anywhere where unrestricted access to the computer network is required.
They can be fitted just like the RJ 45 sockets and on any supports. The stability of performance and the durability of products are guaranteed (see page 57).





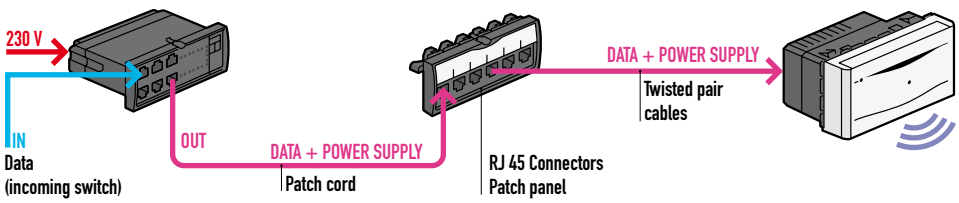
Wi-Fi access points: essential mobility...
- In an environment where multiple Wi-Fi networks operate together, to optimise the available speed everywhere in the building (in compliance with 802.11 a + b/g and 802. 11 n standards).
- In reception areas and passages, to provide network access anywhere in the building (in compliance with the 802.11 b/g and 802. 11 n standards).
- In shared work areas, to connect a computer permanently and provide a wireless connection to temporary users (in compliance with the 802.11 a + b/g and 802. 11 n standards).

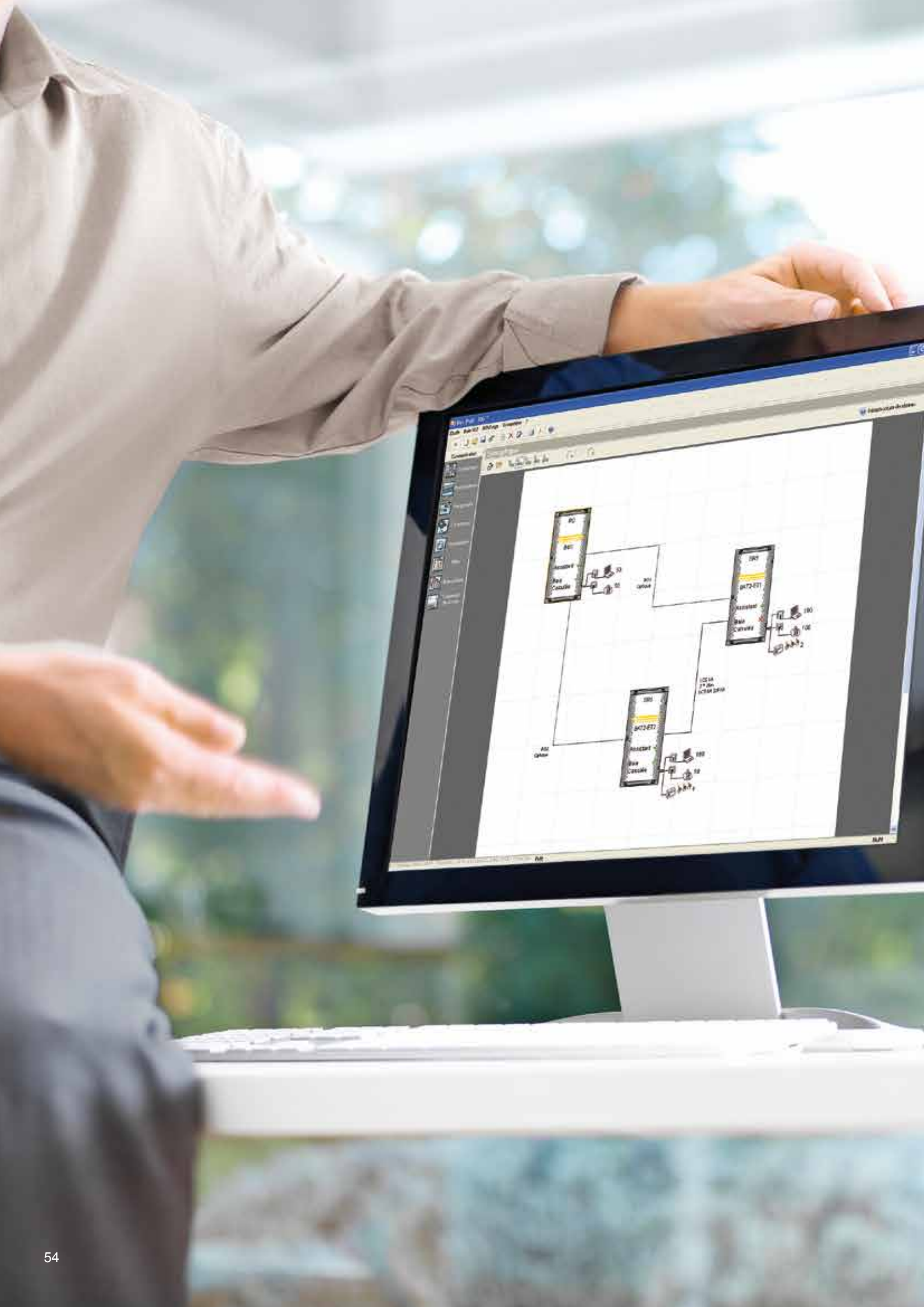
The Wi-Fi access points can be mounted on any support:
Columns, mini-columns, snap-on trunking, floor boxes, etc., mural or on Cablofil.





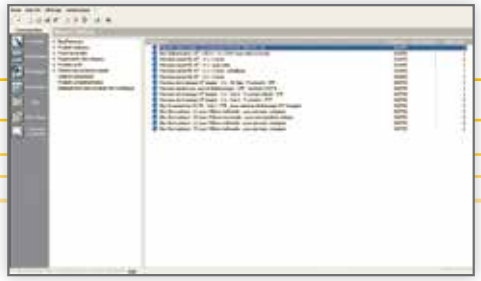
LCS² PoE injector: Power supply to Wi-Fi access points from the patch panels





New LCS Pro² software
Your LCS² enclosure in a few clicks

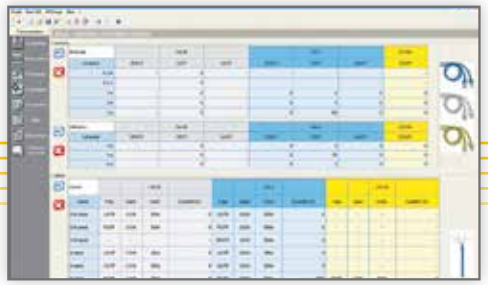
With the new LCS Pro² software, you can now very easily and quickly select your products, view your enclosure, etc.
and complete your study with the Chantier Chrono software which integrates all installation supports.



Automatic determination
of catalogue numbers by selecting the features and options.



Visual display of the installation
of the enclosure, modifications possible.



Easy management of studies
Technical records, purchase orders, document printing.

For more information
Check the LCS Pro² and Chantier Chrono software downloadable from www.legrand.country

Structured cabling classes: A top-level training at Innoval

Being in close contact with engineers at the cutting edge of technological advances, Legrand trainers offer you practical classes in workshops.
These are experienced people who understand your business and speak your language. We offer you very useful and practical classes.



Comprehensive classes
- Copper installation: essential for commercial sites
- Optical fibre: use and testing of an installation
- Copper: use and testing of an installation.



Classes to understand different methods of using an optical backbone and of connecting and testing the optical links, as per the standards in force.



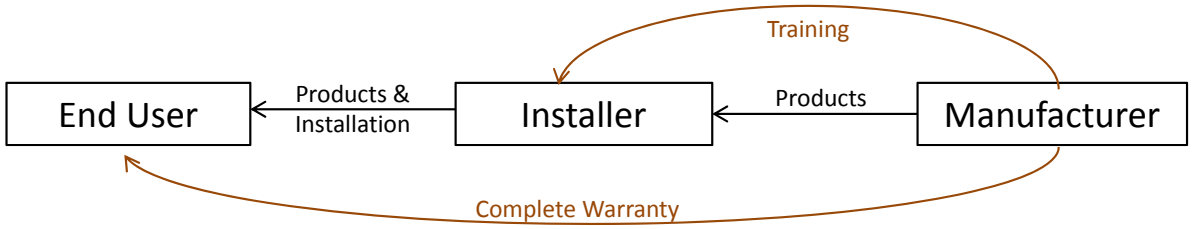
Classes to convert the telephone and computer network needs of your clients into complete and upgradeable solutions, and cabling them as per the standards in force.

Assurance of performance

The performance of an installation must stand the test of time.
This is why Legrand guarantees the performance and the components of its LCS² cat. 6A, cat. 6 and cat. 5e systems over the entire channel or link for 25 years.

Introduction:

LCS2 is not just about the product, it's about the complete system including the installation. Thanks to a partner certification programme covering both standards and best installation practices, Legrand is able to guarantee to the end-user not only the individual components, but also the performance of the actual installation.



Advantages to the end user:

By requesting the 25-year performance warranty the end user ensures all of the following:

1-The design is verified by Legrand, and optimised for best performance and flexibility.*
2-The products as well as the installation are guaranteed for 25 years. If anything is found defective, Legrand covers the costs of replacement.*
3-The installation is carried out by a certified installer. This company has qualified staff, knows the products, and has a close collaboration with Legrand
4-The installation is controlled by Legrand. All links are tested with an approved device, and the results verified for compliance.
5-Legrand technical staff is available during the installation phase to provide advice and local support.



Products covered:



Legrand guarantees the performance in the copper and fiber links. But because the core of the system is the cabinet that will hold the panels, cables and manage the patch cords, Legrand also includes them in the warranty. The following are covered in the warranty:

- Copper connectivity
- Copper cables
- Cooper patch cords
- Fibre connectivity
- Fiber cables
- Fibre patch cords
- Cabinets

Why request the warranty?

It's not about the products, it's about the trust relationship with Legrand.
By requesting the 25-year performance warranty, the end user is ensuring that Legrand controls each step of the installation, provides support, optimizes the design, and in the end, guarantees a complete peace of mind.

• The warranty must be requested before the start of the project. Contact Legrand to obtain details and conditions.



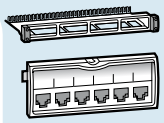
LCS², structured cabling systems

LCS² systems

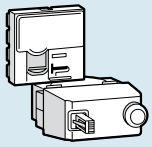


P. 60 LCS², presentation of the system

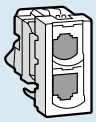
LCS² copper



P. 66 LCS², cat. 6A patch panels and blocks

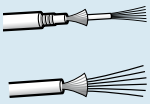


P. 74 LCS², cat. 6 RJ 45 sockets



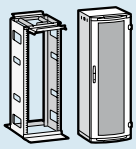
P. 81 LCS², spliter sockets and accessories

LCS² fibre optic

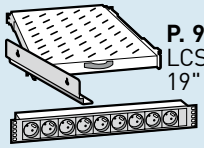


P. 84 LCS², optical cables

LCS², enclosures and cabinets



P. 92 LCS², 19" racks and server enclosures



P. 97 LCS², 19" equipment

NEW PRODUCTS



LCS² connector

for a perfect connection and optimum performance

(p. 66)



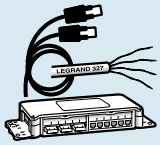
LCS² fibre optic drawer

For complete accessibility and comfortable cabling

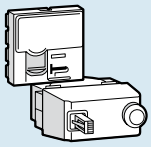
(p. 86)



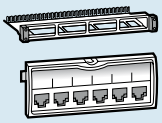
P. 62
LCS², equipment and enclosures Selection chart



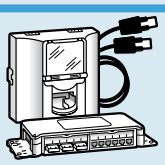
P. 67
LCS², cat. 6A cables, cords and zone distribution boxes



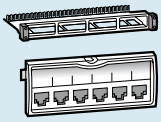
P. 69
LCS² cat. 6A RJ 45 sockets



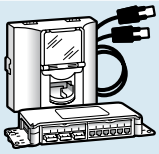
P. 70
LCS², cat. 6 patch panels and blocks



P. 71
LCS², cat. 6 cables, cords, zone distribution boxes and cooper feedthroughs



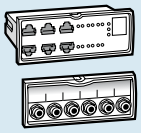
P. 76
LCS², cat. 5e patch panels and blocks



P. 77
LCS², cat. 5e cables, cords, zone distribution boxes and cooper feedthroughs



P. 79
LCS², cat. 5e RJ 45 sockets



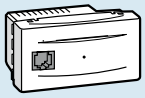
P. 80
LCS²: panels, blocks, switches, PoE, etc.



P. 81
LCS², system installation accessories



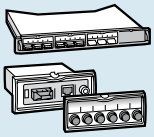
P. 82
Telephone, panels units and cables



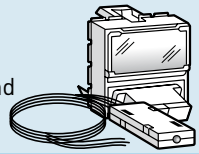
P. 83
Switch and Wi-Fi access points Mosaic Programme



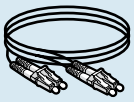
P. 85
LCS², rapid crimping kit and connectors



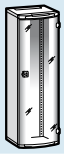
P. 86
LCS², 19" fibre optic drawer and blocks, fibre optic invertors



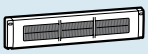
P. 87
LCS², Optical fibre hight desity and wall mount, patch cord



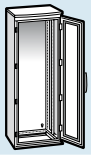
P. 88
LCS²,optical patch cords, zone distribution box, fibers sockets



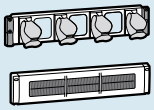
P. 95
LCS² 19" enclosures



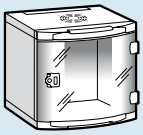
P. 96
Cables Altis™ enclosures



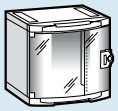
P. 97
Altis™ enclosures



P. 99
LCS², cable management



P. 100
LCS², 19" cabinets



NEW

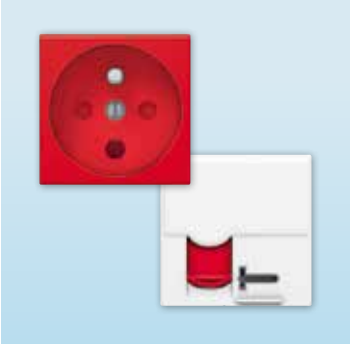
P. 101
LCS²,data center solutions



LCS² 19" enclosures

For an optimised management of cables and cords

(p. 95)

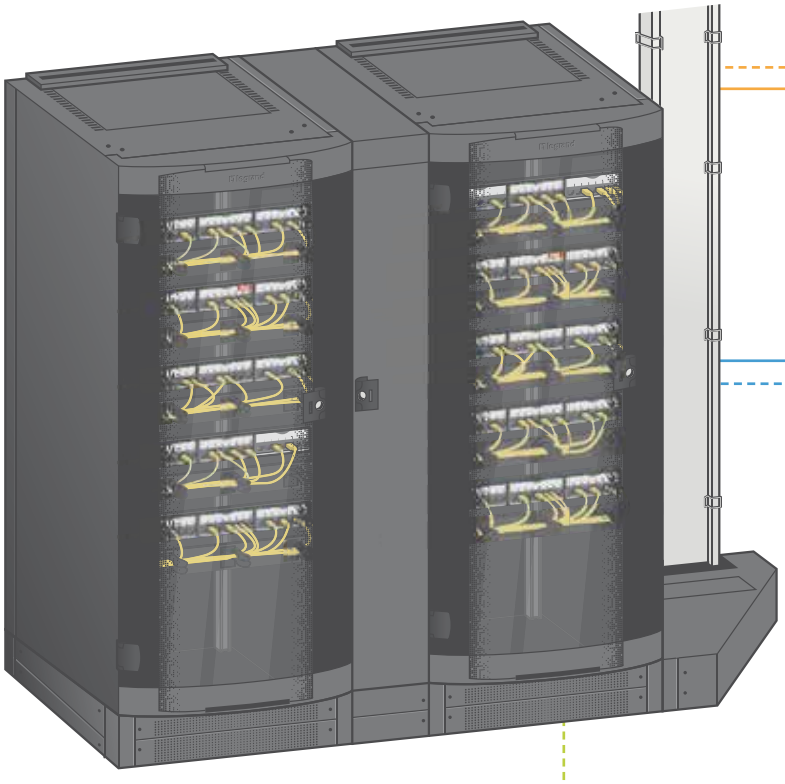


Mosaic sockets

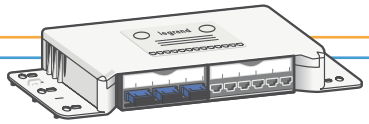
For organisation and safety

(p. 74)

LCS² ENCLOSURES



OPTICAL FIBRE CABLING



LCS² ZONE DISTRIBUTION BOXES
- Quick installation and maintenance
- Connections close to the work station are centralised
- Copper and optical fibre in a single box

COPPER CABLING

COPPER CABLING + READY PoE+

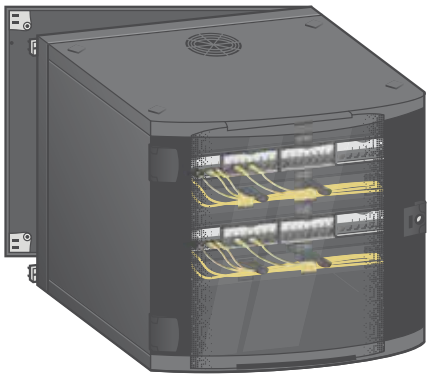
19" LCS² ENCLOSURES
- From 24 to 47 U, 600 to 1,000 mm deep
- Complete accessibility:
  Removable side and rear panels and a structure that can be entirely dismantled

NEW
- Cabling unit with cable guide rack for optimised cable management



NEW
- Protects and maintains the bending radius of cables thanks to the linking interface



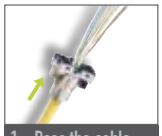


19" LCS² CABINETS
- From 6 to 21 U, 400 to 600 mm deep
- Quick installation and easy maintenance thanks to the removable side panels
- Available in 10" option
- Available with pivoting body to enable easy access to the rear

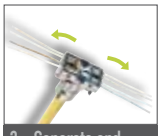
ADVANTAGES OF THE OFFER

■ The new LCS² RJ 45 connectors are the core elements in the performance of the LCS² system

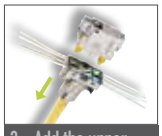
■ Technical performance:
Measurements of LCS² components and links validated by 3 P Third Party Testing, an independent laboratory



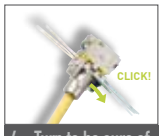
1 – Pass the cable in the rear part



2 – Separate and insert the strands



3 – Add the upper part of the connector



4 – Turn to be sure of the connection



Connector cat. 6A Shielded 500 MHz STP – 10 Giga



Connector cat. 6 shielded 250 MHz STP – 1 Giga



Connector cat. 6 250 MHz FTP – 1 Giga

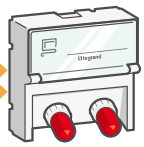


Connector cat. 5e FTP

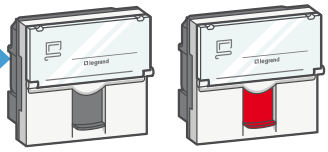
NEW

LCS² from technical room to workstation

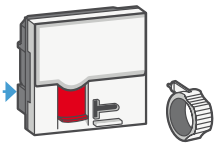
LCS² CONNECTORS



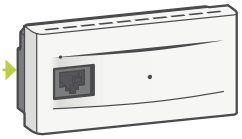
OPTICAL FIBRE SOCKETS
- To connect 2 fibres
- Available in ST, SC and LC



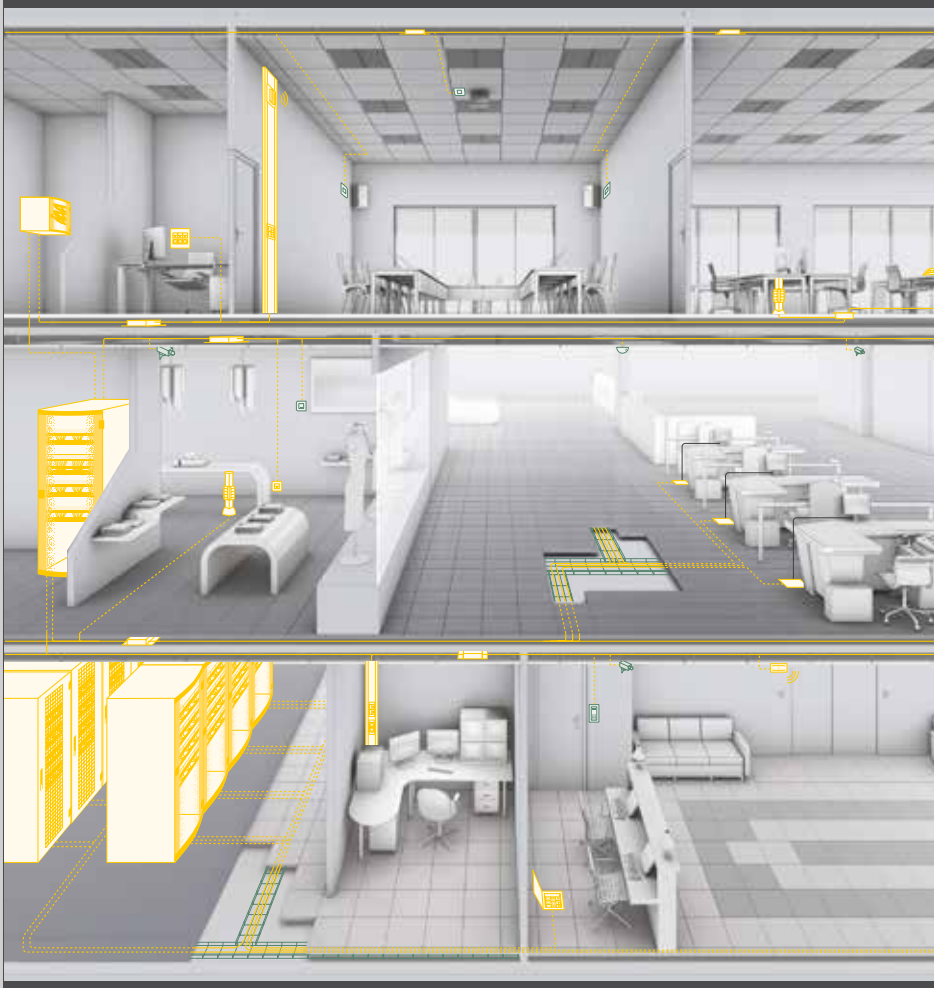
WALL-MOUNTED COPPER SOCKETS
- Cat. 6A / cat. 6 / cat. 5e
- With coloured cover to structure and protect the networks



WALL-MOUNTED SAFETY SOCKETS
To identify the sensitive information networks and control their access using a cover that can be unlocked using a key



WI-FI ACCESS POINT
- Supply from the patch panel by the PoE injector LCS²
- Cabling identical to that of RJ 45 sockets
- Can be fitted on any installation supports of Mosaic Programme



TOOLS FOR MORE INFORMATION

/// **The LCS PRO² software:** to design your LCS² enclosure in a few clicks, and configure your networks

/// **The LCS² document and the technical recommendation guide:** to see the entire LCS² range

/// **Courses at Innoval:** essential to carry out copper and optical fibre installations

WARRANTY 25 YEARS PERFORMANCE legrand

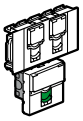
Committed to delivering a durable LCS² system, Legrand gives a 25-year guarantee on its performance

POE+ READY LCS2 connectors Cat.5e, Cat.6 and Cat.6A are tested well beyond the IEC 60512-99-001 and allow up to 2500 insertions under PoE+

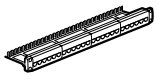
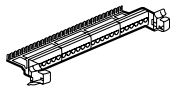
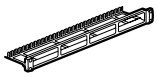
selection chart for equipment and enclosures

configure your LCS² system

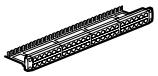
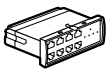
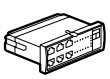
SELECT RJ 45 SOCKETS AND WI-FI MOSAIC ACCESS POINTS

					LCS² cat. 6A	LCS² cat. 6	LCS² cat. 5e
	1 module	STP	White		765 73	765 63	-
		UTP	White		-	765 61	765 51
	2 modules	STP	White		765 76	765 66	-
		UTP	White		-	765 64	765 54
	2 modules with 45° incline	STP	White		765 08	765 03	765 01
		UTP	White		765 09		
	With controlled access	STP	White		765 99	765 96	-
		UTP	White		-	765 94	765 97
	Sockets at 90°	STP	White		-	765 93	-
		UTP	White		-	765 91	-
	Antimicrobial	STP	White		-	765 83	-
		UTP	White		-	765 81	-
	2 x RJ 45 sockets	UTP	White		-	765 44	765 41
	Green shutter	STP	White		765 24	-	-
		FTP	White		-	765 22	-
	Orange shutter	STP	White		765 25	-	-
		FTP	White		-	765 23	-
	Copper feedthroughs	UTP	White		-	786 22	786 20
	Splitter sockets	Ethernet/Ethernet		UTP	765 38	765 38	765 38
		Telephone/Ethernet		UTP	765 36	765 36	765 36
		Telephone/telephone			765 35	765 35	765 35
	Manageable Wi-Fi access points	With RJ 45 socket, dual-band and dual-radio			779 14	779 14	779 14
		Dual-band and dual-radio			779 13	779 13	779 13

SELECT LCS² PANELS AND CONNECTOR UNITS

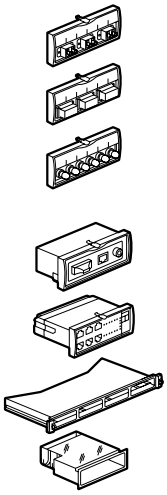
				LCS² cat. 6A	LCS² cat. 6	LCS² cat. 5e
	Patch panels 1U Fitted with 24 connectors	STP		335 73	335 63	-
		UTP		-	335 61	335 51
	High density panels 1U	STP		335 86		-
		FTP		-		335 68
		UTP		-		335 67
	Units of 6 x RJ 45 connectors	STP		335 76	335 66	-
		UTP		-	335 64	335 54
	Blanking plate			335 91	335 91	335 91
	Patch panel 1 U To be fitted with 4 units			335 90	335 90	335 90

SELECT ADDITIONAL LCS² PANELS AND UNITS

				LCS²
	Telephone panels 1 U Fitted with 4 x 12 port extensions	3-6/4-5 contacts (digital)		335 31
		4-5/7-8 contacts (analogue)		335 30
	Telephone extensions Fitted with 12 ports	3-6/4-5 contacts (digital)		335 33
		4-5/7-8 contacts (analogue)		335 32
	Splitter units	Ethernet/Ethernet	UTP	335 38
		Telephone/Ethernet	UTP	335 36
		Telephone/telephone		335 35
	Video streaming unit	6 x "F" connectors		335 34
	Switch units	7 x RJ 45 ports		335 02
		6 x RJ 45 ports + 1 LC type optic port		335 05
	Power over Ethernet (PoE) injector	4 ports		335 01

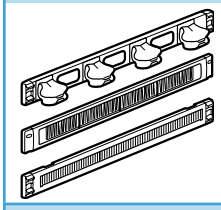
selection chart for equipment and enclosures
configure your LCS² system (continued)

SELECT FIBRE OPTIC EQUIPMENT



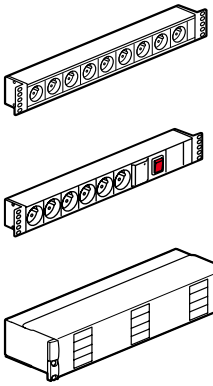
		Singlemode	Multimode
LC units	For 6 fibres	335 13	335 18
	High density - For 12 fibres	-	335 19
SC units	For 6 fibres	335 12	335 17
SC/APC units	For 6 fibres	335 14	-
ST units	For 6 fibres	-	335 16
Copper/fibre optic converters	10/100 base T to 10/100 base SX	-	335 06
	1000 base T to 1000 base SX/LX	-	335 07
Switch units	6 x RJ 45 ports + 1 LC type optic port	335 05	335 05
Fibre optic enclosures 1 U - For 4 fibre optic units		335 10	335 10
Fibre optic cassettes for patch panel		335 11	335 11

SELECT 19" LCS² FEEDTHROUGH PANELS



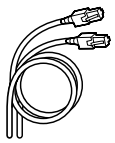
Metal, 2 axes, quick-fixing	1 U	465 22
	2 U	465 23
Plastic with brushes, direct clipping	1 U	465 28
	2 U	465 29
Metal with brushes, quick-fixing	1 U	465 30
	2 U	465 31

SELECT 19" LCS²



Socket units 2P+E 2 U	9 sockets	465 50
	6 sockets	465 54
	6 sockets Switch with indicator	332 88
	6 sockets Double-pole circuit-breaker	332 37
	6 sockets For safeguarded circuit	332 87
	9 sockets Schuko	465 60
	6 sockets Schuko	465 62
Unit with surge suppressor 2 U	6 sockets Switch with indicator	332 78
	Replacement module	775 41
Modular unit 2 U	Takes 16 Mosaic modules	332 79
DIN rail kit IP 2X - 2 U	For Lexic modular devices	465 45

SELECT PATCH CORDS AND RJ 45 USER CORDS



			Cat. 6A	Cat. 6	Cat. 5e
S/FTP	Impedance 100 Ohms	1 m	517 80	517 52	-
		2 m	517 81	517 53	-
		3 m	517 82	517 54	-
		5 m	517 83	517 55	-
F/UTP	Impedance 100 Ohms	1 m	-	517 62	516 40
		2 m	-	517 63	516 41
		3 m	-	517 64	516 42
		5 m	-	517 65	516 43
U/UTP	Impedance 100 Ohms	1 m	518 82	517 72	516 36
		2 m	518 83	517 73	516 37
		3 m	518 84	517 74	516 38
		5 m	518 85	517 75	516 39

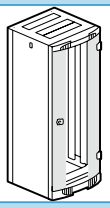
SELECT COPPER CABLES (305 OR 500 m REELS)



S/FTP	4 pairs	500 m	327 77	-	-
SF/UTP	4 pairs	500 m	-	327 57	-
	2 x 4 pairs	500 m	-	328 59	-
F/UTP	4 pairs	305 m	-	328 56	327 52
		500 m	327 78	327 56	328 50
	2 x 4 pairs	500 m	-	327 76	327 74
U/UTP	4 pairs	305 m	-	327 54	327 50
		500 m	-	328 61	328 53
	2 x 4 pairs	500 m	-	328 63	328 55

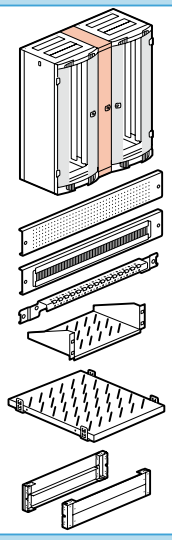
selection chart for equipment and enclosures

configure your LCS² system (continued)

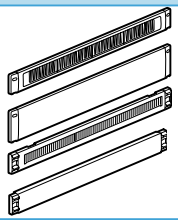
SELECT 19" LCS² ENCLOSURES			Depth 600 mm	Depth 800 mm	Depth 1000 mm
	24 U	Width 600 mm	463 00	-	-
	29 U	Width 600 mm	463 06	-	-
	33 U	Width 600 mm	463 12	-	-
	42 U	Width 600 mm	463 18	463 19	-
		Width 800 mm	463 21	463 22	463 23
	47 U	Width 800 mm	-	463 28	463 29

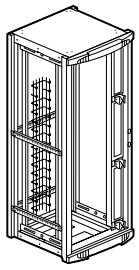
SELECT 19" LCS² EXTENSION ENCLOSURES		Depth 600 mm	Depth 800 mm
42 U	Width 600 mm	463 30	-
	Width 800 mm	-	463 33

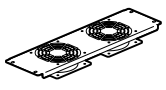
SELECT 19" LCS² SERVER ENCLOSURES		Depth 1000 mm
42 U	Width 600 mm	463 85
	Width 800 mm	**463 86**

SELECT EQUIPMENT FOR 19" LCS² ENCLOSURES		For enclosure depth 600 mm	For enclosure depth 800 mm	For enclosure depth 1000 mm
	42 U cabling units	463 34	463 35	-
	Base for cabling unit, trap height 100 mm	464 64(1)	464 64(1)	-
	Joining kits	463 37	463 38	463 39
	Sets of 2 solid side traps for enclosure base	464 54(2)	464 56(2)	464 58(2)
	Ventilated traps, 1 trap height 100 mm	464 60	464 61	-
	Traps with brushes, 1 panel height 100 mm	464 62	464 63	-
	Stay plates	476 93	476 94	476 95
	Linking interface	464 66	-	-
	Fixed shelves Projecting mounting on 2 x 19" uprights (excludes server enclosures) Depth 115 mm	465 00	465 00	465 00
	Depth 200 mm	465 01	465 01	465 01
	Depth 360 mm	465 02	465 02	465 02
	Fixed shelves. Quick mounting on 4 x 19" uprights (excludes server enclosures)	465 05	465 06	465 07
	Fixed shelf. Screw fixed on 4 x 19" uprights	-	-	465 17
	Telescopic shelves. Quick mounting on 4 x 19" uprights (excludes server enclosures)	465 08	465 09	465 10
	Telescopic shelf. Screw fixed on 4 x 19" uprights (for server enclosures)	-	-	465 18
	Set of 2 fixed runners	465 11	465 12	465 13

		Height 100 mm	Height 200 mm
Enclosure base kits	For width 600 mm	464 50	464 52
	For width 800 mm	464 51	464 53

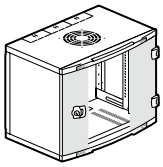
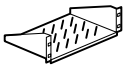
SELECT 19" LCS² CABLE ENTRIES FOR TOP AND BOTTOM AND BLANKING PLATES		For enclosures
	Plastic cable entries with brushes, direct clipping 1 U	465 28
	2 U	465 29
	Solid plastic blanking plates, direct clipping 1 U	465 32
	2 U	465 33
	Metal cable entries with brushes, quick-fixing 1 U	465 30
	2 U	465 31
	Solid metal blanking plates, quick-fixing 1 U	465 38
	2 U	465 39
	3 U	465 40

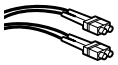
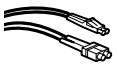
SELECT CABLING MANAGEMENT EQUIPMENT			
	Sets of 3 cable management supports	For enclosure width/depth 600 mm	464 72
		For enclosure width/depth 800 mm	464 73
		For enclosure depth 1000 mm	464 74
	Flat cable guides	For enclosure 33 U	464 76
		For enclosure 42 U	464 77
	U-shaped cable guides	Width 200 mm	464 69
		Width 400 mm	464 70
	Cord management grille	For enclosure 42 U, width 800 mm	331 35
	Vertical feedthrough	For enclosure 42 U, width 800 mm	464 80
	Patch extension	For enclosure 42 U, width 800 mm	464 81

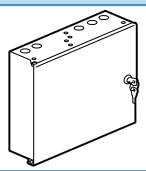
SELECT THERMAL MANAGEMENT EQUIPMENT AND ACCESSORIES			
	19" plates 3U with 230 V fans	2 fans	464 87
		3 fans	464 88
	Ventilation enclosures	For enclosure depth 600/800 mm	464 89
		For enclosure depth 800/1000 mm	464 90
	Thermostat	Adjustable range 5 to 60 °C	348 48
	Accessories	Set of 4 casters	464 83
		Set of 4 casters for server enclosure	464 82
		230 V Lighting kit	464 85
		Level adjustment kit	464 84
		Floor fixing kit	464 86

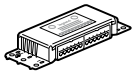
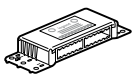
(1) Double the number of traps for a height of 200 mm
(2) Order 2 sets for a base height of 200 mm (Cat.Nos 464 52/53)

selection chart for equipment and enclosures
configure your LCS² system (continued)

SELECT 19" LCS² CABINETS AND EQUIPMENT			FIXED		PIVOTING
			Depth 400 mm	Depth 580 mm	Depth 600 mm
	6 U	Height 350 mm	462 00	-	-
	9 U	Height 500 mm	462 01	462 06	462 11
	12 U	Height 600 mm	462 02	462 07	462 12
	16 U	Height 800 mm	462 03	462 08	462 13
	21 U	Height 1000 mm	-	462 09	462 14
	Fixed shelves	Depth 115 mm	465 00	465 00	465 00
		Depth 200 mm	465 01	465 01	465 01
		Depth 360 mm	-	465 02	465 02
	Equipment	Cable entry plate with brush	-	-	462 55
		230 VA fan	462 60	462 60	462 60
		Thermostat	348 48	348 48	348 48
		Set of 4 casters	-	-	462 64

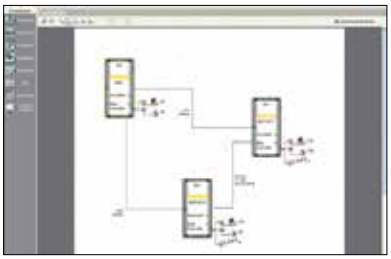
Select fibre optic pacth cords			OS 1 / OS 2 (UPC) siglemode 9/125 µm	OM 4 multimode 50/125 µm	OM 3 multimode 50/125 µm
	SC/SC duplex cords	1 m	326 00	326 30	326 09
		2 m	326 01	326 31	326 10
		3 m	326 02	326 32	326 11
	SC/LC duplex cords	1 m	326 03	-	326 12
		2 m	326 04	-	326 13
		3 m	326 05	-	326 14
	SC/SC duplex cords	0,5 m	326 28	326 33	-
		1 m	326 06	326 34	326 15
		2 m	326 07	326 35	326 16
		3 m	326 08	326 36	326 17
		5 m	326 29	326 37	-

Wall mount fibre opric cabinets		
	Empty cabinet	462 90
	Cabinet equiped with 2 SC blocs for 12 fibres multimode	462 91

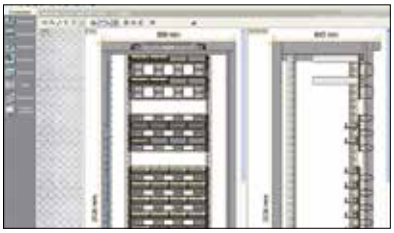
SELECT OPTIC CABLES (2000 m REELS)			OS 1/OS2 singlemode 9/125 µm	OM 4 multimode 50/125 µm	OM 3 multimode 50/125 µm
	Internal/external, anti-rodent	6 fibres	325 12	326 66	325 10
		12 fibres	32514	326 67	325 11
	External, anti-rodent reinforced steel	6 fibres	325 13	-	-
LCS² zone distribution boxes			LCS² cat. 6_A	LCS² cat. 6	LCS² cat. 5e
	Zone distribution boxes Fitted with 12 x RJ 45 connectors	STP	335 49	335 46	-
		FTP	-	335 45	-
		UTP	-	335 44	-
	Units of 6 x RJ 45 connectors	STP	335 76	335 66	-
		FTP	335 77	335 65	335 55
		UTP	-	335 64	335 54
	Fibre optic accessory			335 20	335 20
	Zone distribution box To be fitted with 4 units			335 40	335 40

Your LCS² enclosure in a few clicks

**Select your products and visualise your enclosure simply and quickly with the new LCS Pro² software...
and complete your study with Chantier Chrono software which integrates trunking, columns, floor and feeder boxes**



LCS Pro² allows you **to automatically find** Cat.Nos by selecting characteristic options



LCS Pro² lets you **visualise the enclosure installation** and amend it if required



LCS Pro² allows you to **easily manage your studies:** technical summaries, purchase orders, document printing

POE READY LCS2 connectors Cat.5e, Cat.6 and Cat.6A are tested well beyond the IEC 60512-99-001 and allow up to 2500 insertions under PoE+

Legrand cabling system LCS² category 6A
patch panels, blocks of connectors



335 73



335 90



335 76



Connector cat. 6A shielded STP

Pack	Cat.Nos	
		Patch panel cat. 6A 24 x RJ 45 connectors Panel supplied with quick-fixing All enclosures or cabinets general assembly Panel ensures automatic grounding of each connector Fitted with rear cable guide to hold cables during maintenance Fitted with 4 units of 6 LCS² RJ 45 connectors cat. 6A with fast connection thanks to integrated crimping, with wiring schemes T 568 A and T 568 B Supplied with numbered colour labels Conform to standards ISO/IEC 11801 Ed. 2.0, amendment 2, EN 50173-2 and TIA/EIA 568C 19" panel - 1 U
1	335 84	UTP panel - 8 contacts
1	335 85	UTP high density panel - 8 contacts
1	335 73	STP - Metal shielding 360°
1	335 86	STP high density panel - 360° metal shielding

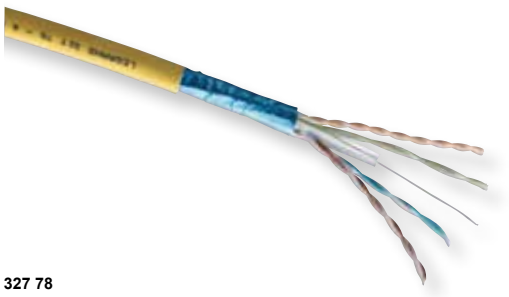
		Modular panel Panel supplied with quick-fixing All enclosures or cabinets general assembly Panel ensures automatic grounding of each connector Fitted with rear cable guide to hold cables during maintenance Modular empty panel for up to 4 units Take the following equipment: - units of 6 x LCS² RJ 45 connectors - telephone inlet units - fibre optic units - PoE injector units - video streaming units - switch units - telephone/Ethernet Splitter units - copper/fibre optic converter units - blanking plates
1	335 90	19" panel - 1 U

		Units of 6 x RJ 45 connectors cat. 6A Fitted with 4 units of 6 LC S2 RJ 45 connectors cat. 6a with fast connection thanks to integrated crimping, with wiring schemes T 568 A and T 568 B Supplied with colour labels Conform to standards ISO/IEC 11801 Ed. 2.0, amendment 2, EN 50173-2 and TIA/EIA 568C
2	335 76	STP unit - metal shielding 360°
10	335 91	Blanking plate for 19" panel - Black

Bloc with controled access
see p. 80



Legrand cabling system LCS²
category 6A
cables

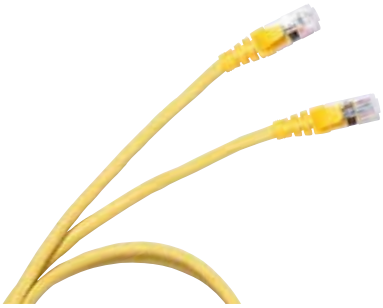


327 78

Pack	Cat.Nos	Cables for local networks cat. 6A
		Cables 4 pairs or 2 x 4 twisted pairs 100 ohms LSZH sleeve: halogen-free Yellow RAL 1018 Colour code TIA/EIA Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568C Performance 500 MHz
	LSZH	**U/UTP - 4 pairs**
500(1)	327 87	Performance 500 MHz Length 500 m Supplied on reel. Weight 25 kg
		F/UTP - 4 pairs
500(1)	327 78	Performance 500 MHz Length 500 m Supplied on reel. Weight 25 kg
		F/UTP - 2x4 pairs
500(1)	328 78	Performance 500 MHz Length 500 m Supplied on reel. Weight 65 kg
		S/FTP - 4 pairs
500(1)	327 77	Performance 600 MHz Length 500 m Supplied on reel. Weight 30 kg

(1) in metre(s)

Legrand cabling system LCS²
category 6A
cords



517 82

Pack	Cat.Nos	RJ 45 patch cords and user cords cat. 6A
		RJ 45 - RJ 45 right Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568C
	PVC	**U/UTP unscreened impedance 100 Ω**
5	518 82	Length 1 m
5	518 83	Length 2 m
5	518 84	Length 3 m
5	518 85	Length 5 m
	LSZH	
5	518 78	Length 1 m
5	518 79	Length 2 m
5	518 80	Length 3 m
5	518 81	Length 5 m
5	518 74	Length 1 m
5	518 75	Length 2 m
5	518 76	Length 3 m
5	518 77	Length 5 m
	PVC	**S/FTP shielded impedance 100 Ω**
5	517 80	Length 1 m
5	517 81	Length 2 m
5	517 82	Length 3 m
5	517 83	Length 5 m
	LSZH	
5	518 70	Length 1 m
5	518 71	Length 2 m
5	518 72	Length 3 m
5	518 73	Length 5 m
5	518 66	Length 1 m
5	518 67	Length 2 m
5	518 68	Length 3 m
5	518 69	Length 5 m

Accessory connection equipment

Complete flexibility with the new LCS² zone boxes: centralisation of connections close to the workstation, coexistence of copper and fibre optics



> Flexible installation with lines in reserve to meet future requirements quickly





> Reliable and fast connection to the LCS² zone box with sockets with copper and fibre optic feedthrough and RJ 45/RJ 45 cords

> Guaranteed performance across the whole LCS² system

Bloc with controled access
see p. 80



Legrand cabling system LCS² category 6A
zone distribution boxes

NEW



335 40

Pack	Cat.Nos	Zone distribution boxes
		For distribution of low current in a zone fitted with 1 to 12 RJ 45 sockets Centralise connections to guarantee flexibility and adaptability of the installation Installed on false ceiling or false floor Connect to the patch panel or the floor cabinet Connection to workstation for RJ 45 cords Can take switch Cat.No 335 02 or PoE injector Cat.No 335 01 or 6 connector units Cat.No 335 76 Conform to standards UTE C 15-900, NF C 15-100, NF C 20-730, EN 50-174.2, CEI 60950, ISO/IEC 11801 Ed. 2.0, EN 50173-2 and TIA/EIA 568 Colour code TIA/EIA 568 A and C Cords and cables: ISO 11801 Ed.2.0, EN 50173-1, TIA/EIA 568 Technical characteristics: - polycarbonate PC hood - polypropylene PP base - RAL 7035 - hold connector units in place in the box: 100 N - cables anchored on support using Colring cable ties
		Zone distribution boxes cat. 6 Fitted with 2 x 6 LCS² connector blocks RJ 45 cat. 6 and RJ 45 blanking plates Supplied with Colring cable ties
1	336 46	STP
		Self-assembly zone distribution box
1	335 40	Used for mounting LCS² RJ 45 connector blocks cat. 6A (p. 69), cat. 6 (p. 70) and cat. 5e (p. 76), fibre optic accessories or blanking plates

Pack	Cat.Nos	Cords cat. 6A - RJ 45/stripped AWG 24
		RJ 45 - straight stripped Clip on and off in the zone distribution boxes and connection via LCS² connector of an RJ 45 socket by the stripped side Cords prepared in factory, "ready for wiring" Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568 Yellow RAL 5015 Wiring in T 568 B
	●	**S/FTP screened impedance 100 Ω**
4	515 23	Length 8 m
1	515 24	Length 15 m
4	515 25	Length 20 m

		Cords cat. 6A - RJ 45/RJ 45
		For direct connection via RJ 45 male plug to the zone distribution box and to the RJ 45 socket with copper feedthrough to ensure: - safe connection - speed and reliability of connection Yellow RAL 5015
	●	**F/UTP screened impedance 100 Ω**
4	515 13	Length 8 m
4	515 14	Length 15 m
4	515 15	Length 20 m

		Sockets with copper feedthrough cat. 6A
		Easy connection at the rear through simply attaching a male plug. Ensures network access for the RJ 45 socket. Used to create cat. 5e links. According to standards ISO 11801 Ed.2, EN 50173-1 and TIA/EIA 568 within the framework of operation with zone distribution boxes. Multidirectional cord entry. Installation possible in all supports with a min. 40 mm depth. 2 modules
		Cat. 6A shielded Mosaic
10	786 28	○ White
10	786 29	● Aluminium

Legrand cabling system LCS²
category 6A
RJ 45 sockets


765 73


765 76


794 76


765 24


765 25


765 99


673 46 + Titane 685 51

Sockets with LCS² connector with fast connection thanks to integrated crimping
Take AWG 22 single-core cables up to AWG 26 and AWG multicore cables
Contacts marked with dual colour code and wiring schemes T 568 A and T 568 B
Conform to standards ISO/IEC 11801 Ed. 2.0, amendment 2, EN 50173-1 and TIA/EIA 568C

Pack	Cat.Nos	Mosaic RJ 45 sockets cat. 6A	
		STP - 1 module	
		360° metal shielding	
10	765 73		○ White
10	794 73		● Aluminium
		STP - 2 modules	
		360° metal shielding	
10	765 76		○ White
10	794 76		● Aluminium
10	765 24		○ White with green shutter
10	765 25		○ White with orange shutter
10	765 08		○ White
		STP with controlled access - 2 modules	
		360° metal shielding	
		Supplied with 2 keys for 5 sockets	
5	765 99		○ White with red shutter
		UTP - 1 module	
10	765 71		○ White
10	794 71		● Aluminium
10	765 26		○ White with green shutter
10	765 27		○ White with orange shutter
		UTP - 2 modules	
10	765 74		○ White
10	794 74		● Aluminium
		UTP with controlled access - 2 modules	
		Supplied with 2 keys for 5 sockets	
5	765 90		○ White with red shutter
10	765 09		○ White

Pack	Cat.Nos	Celiane RJ 45 socket cat. 6A	
		STP - 360° metal shielding	
10	673 46		To create a 1-gang socket, combine mechanism Cat.No 673 46 and a cover plate Cat.No 682 51 (white) or Cat.No 685 51 (titanium). To create a 2-gang socket, combine 2 mechanisms Cat.Nos 673 46 and a cover plate Cat.No 682 52 (white) or Cat.No 685 52 (titanium)
		UTP	
10	673 47		To create a 1-gang socket, combine mechanism Cat.No 673 46 and a cover plate Cat.No 682 51 (white) or Cat.No 685 51 (titanium). To create a 2-gang socket, combine 2 mechanisms Cat.Nos 673 46 and a cover plate Cat.No 682 52 (white) or Cat.No 685 52 (titanium)]

Pack	Cat.Nos	Valena RJ 45 socket cat. 6A	
		360° metal shielding	
		STP - socket RJ 45	
10	7700 72		○ White
	7741 72		○ Ivory
	7702 72		● Aluminium
		STP - double socket RJ 45	
10	7700 73		○ White
	7741 73		○ Ivory
	7702 73		● Aluminium

Pack	Cat.Nos	Bticino Axolute RJ 45 socket cat. 6A	
		360° metal shielding	
		STP - 1 module	
10	HC4279C6A		● Tech
	HS4279C6A		● Antracite
	HD4279C6A		○ White

Pack	Cat.Nos	Keystone RJ 45 socket cat. 6A	
10	331 54	STP socket - metal shielding 360° with fast connection thanks to integrated crimping	
10	331 55	UTP socket - metal shielding 360° with fast connection thanks to integrated crimping	



Mosaic Programme audio/video sockets

see p. 90

GUARANTEED 2500 INSERTIONS
legrand

Legrand cabling system LCS²
category 6
patch panels, blocks of connectors



335 62



335 90



335 65



Cat. 6 connector
STP shielded

Pack	Cat.Nos	Patch panels cat. 6 24 x RJ 45 quick-fixing connectors
		Panels supplied with quick-fixing All enclosures or cabinets general assembly Panels ensure automatic grounding of each connector Fitted with rear cable guide to hold cables during maintenance Fitted with 4 units of 6 LCS² RJ 45 connectors cat. 6 with fast connection thanks to integrated crimping, with colour code and wiring schemes T 568 A and T 568 B Supplied with numbered colour labels Conform to standards ISO/IEC 11801 Ed. 2.0, amendment 2, EN 50173-2 and TIA/EIA 568C 19" panel - 1 U
1	335 61	UTP panel - 8 contacts
1	335 67	UTP high density panel - 8 contacts
1	335 62	FTP panel - 9 contacts
1	335 68	FTP high density panel - 9 contacts
1	335 63	STP panel - metal shielding 360°
		UTP through panel 24 x RJ 45 connectors
1	335 89	UTP through panel

		Patch panels cat. 6 24 x RJ 45 connectors, 110 connection
		Panels supplied with screws All enclosures or cabinets general assembly Fitted with 4 units of 6 RJ 45 connectors cat. 6 connection with 110 tool, with colour code and wiring schemes T 568 A and T 568 B Supplied with labels numbered from 1 to 24 Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-2 and TIA/EIA 568 19" 1 U panels
1	335 82	UTP panel - 8 contacts - connection with 110 tool
1	335 83	UTP high density panel - 8 contacts - connection with 110 tool

Pack	Cat.Nos	Modular panels
		Panels supplied with quick-fixing General all-purpose assembly of all enclosures or cabinets Panels ensure automatic earthing of each connector Fitted with rear cable guide to hold cables during maintenance Empty panels to be fitted with 4 units Take the following equipment: - 6 LCS² RJ 45 connector units - telephone inlet units - fibre optic units - PoE injector units - video streaming units - switch units - telephone/Ethernet splitter units - copper/fibre optic converter units - blanking plates
1	335 90	19" panel - 1 U

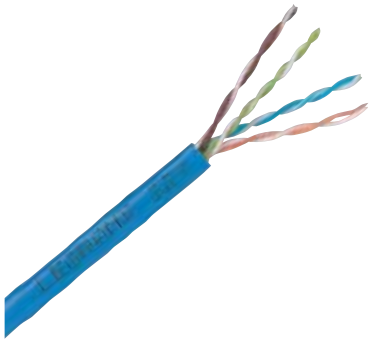
		Units of 6 x RJ 45 connectors cat. 6
		Fitted with 6 x LCS² RJ 45 connectors cat. 6 with fast connection thanks to integrated crimping, with colour code and wiring schemes T 568 A and T 568 B Supplied with colour labels Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568
2	335 64	UTP unit - 8 contacts
2	335 65	FTP unit - 9 contacts
2	335 66	STP unit - metal shielding 360°
10	335 91	Blanking plate for 19" panel - Black

POE+ READY
LCS2 connectors Cat.5e, Cat.6 and Cat.6A are tested well beyond the IEC 60512-99-001 and allow up to 2500 insertions under PoE+

Bloc with controled access
see p. 80



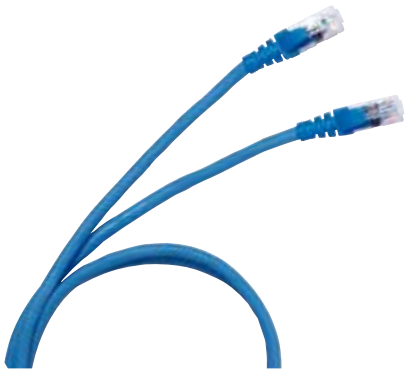
Legrand cabling system LCS²
category 6
cables



327 54

Pack	Cat.Nos		Cables for local networks cat. 6
			Cables 4 pairs or 2 x 4 twisted pairs 100 ohms Blue RAL 5015 Colour code TIA/EIA Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568C
	LSZH	PVC	**U/UTP - 4 pairs**
305(1)	327 54		Length 305 m Supplied in cardboard box. Weight 16 kg
500(1)	328 61		Length 500 m Supplied on reel. Weight 18 kg
1000(1)	328 71		Length 1000 m Supplied on reel
305(1)		327 55	Length 305m Supplied in cardboard box. Weight 13 kg
1000(1)		328 72	Length 1000 m Supplied on reel
			F/UTP - 4 pairs
305(1)	328 56		Length 305 m Supplied on reel. Weight 17 kg
500(1)	327 56		Length 500 m Supplied on reel. Weight 25 kg
			F/UTP - 4 pairs
305(1)		328 57	Length 305 m Supplied in cardboard box. Weight 17 kg
500(1)		327 58	Length 500 m Supplied on reel. Weight 25 kg
			SF/UTP - 4 pairs
500(1)	327 57		Length 500 m Supplied on reel. Weight 29 kg
500(1)		327 59	Length 500 m Supplied on reel. Weight 30 kg

Legrand cabling system LCS²
category 6
cords



517 62

Pack	Cat.Nos		RJ 45 patch cords and user cords cat. 6
			RJ 45 - RJ 45 right
	PVC		**U/UTP unscreened impedance 100 Ω**
1	517 72		Length 1 m
1	517 73		Length 2 m
1	517 74		Length 3 m
1	517 75		Length 5 m
	LSZH		
1	518 62	518 58	Length 1 m
1	518 63	518 59	Length 2 m
1	518 64	518 60	Length 3 m
1	518 65	518 61	Length 5 m
	PVC		**F/UTP screened impedance 100 Ω**
1	517 62		Length 1 m
1	517 63		Length 2 m
1	517 64		Length 3 m
5	517 65		Length 5 m
	LSZH		
1	518 54	518 50	Length 1 m
1	518 55	518 51	Length 2 m
1	518 56	518 52	Length 3 m
1	518 57	518 53	Length 5 m
	PVC		**SF/UTP shielded impedance 100 Ω**
5	517 52		Length 1 m
5	517 53		Length 2 m
5	517 54		Length 3 m
5	517 55		Length 5 m

(1) in metre(s)

Legrand cabling system LCS²
category 6
zone distribution boxes



335 46



335 40



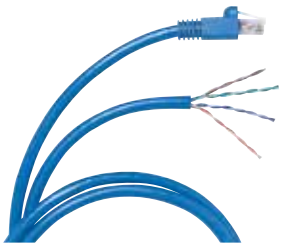
335 40 fitted with SC fibre optic unit, accessory Cat.No 335 20 and a 6 x RJ 45 connector unit



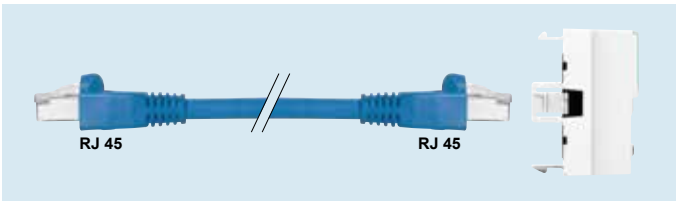
335 20 accessory for fibre optics

Pack	Cat.Nos	Zone distribution boxes
		For distribution of low current in a zone fitted with 1 to 12 RJ 45 sockets Centralise connections to guarantee flexibility and adaptability of the installation Installed on false ceiling or false floor Connect to the patch panel or the floor cabinet Connection to an RJ 45 socket with stripped cord or to a Mosaic RJ 45 socket with copper feedthrough with an RJ 45/RJ 45 cord IP 21 - IK 07 Conform to standards UTE C 15-900, NF C 15-100, NF C 20-730, EN 50-174.2, CEI 60950, ISO/IEC 11801 Ed. 2.0, EN 50173-2 and TIA/EIA 568 Colour code TIA/EIA 568 A and C Cords and cables: ISO 11801 Ed.2.0, EN 50173-1, TIA/EIA 568 Technical characteristics: - polycarbonate PC hood - polypropylene PP base - RAL 7035 - hold connector units in place in the box: 100 N - Cables anchored on support using Colring cable ties
		Zone distribution boxes cat. 6 Fitted with 2 x 6 LCS² connector blocks RJ 45 cat. 6 and RJ 45 blanking plates Supplied with Colring cable ties
1	335 44	UTP
1	335 45	FTP
1	335 46	STP
		Self-assembly zone distribution box
1	335 40	**Used for mounting LCS² RJ 45 connector blocks cat. 6 (p. 70)**

Legrand cabling system LCS²
category 6
cords specifically for zone distribution boxes



517 57



Connection principle

Pack	Cat.Nos	Cords cat. 6 - RJ 45/stripped AWG 24
		RJ 45 - straight stripped Clip on and off in the zone distribution boxes and connection via LCS² connector of an RJ 45 socket by the stripped side Cords prepared in factory, "ready for wiring" Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568 Blue RAL 5015 Wiring in T 568 B
		U/UTP unscreened impedance 100 Ω
4	517 57	Length 8 m
4	517 58	Length 15 m
4	517 59	Length 20 m
		F/UTP screened impedance 100 Ω
4	517 96	Length 8 m
1	517 97	Length 15 m
4	517 98	Length 20 m

Pack	Cat.Nos	Cords cat. 6 - RJ 45/RJ 45
		For direct connection via RJ 45 male plug to the zone distribution box and to the RJ 45 socket with copper feedthrough to ensure: - safe connection - speed and reliability of connection Blue RAL 5015
		U/UTP unscreened impedance 100 Ω
4	515 10	Length 8 m
4	515 11	Length 15 m
4	515 12	Length 20 m
		F/UTP screened impedance 100 Ω
4	515 13	Length 8 m
4	515 14	Length 15 m
4	515 15	Length 20 m

Bloc with controled access
see p. 80



Legrand cabling system LCS²
category 6
feedthrough sockets



786 22

Pack	Cat.Nos	Sockets with copper feedthrough cat. 6
		Easy connection at the rear through simply attaching a male plug Ensures network access for the RJ 45 socket Used to create links cat. 6 According to standards ISO 11801 Ed.2, EN 50173-1 and TIA/EIA 568 within the framework of operation with zone distribution boxes Multidirectional cord entry Installation possible in all supports with min. 40 mm depth 2 modules
	Mosaic	**Cat. 6 UTP Mosaic**
10	786 22	 ○ White
10	786 26	● Aluminium
		Cat. 6 FTP Mosaic
10	786 23	 ○ White
10	786 27	● Aluminium

Legrand cabling system LCS²
category 6
110 Cross Connect System blocks and patch cords cat. 6



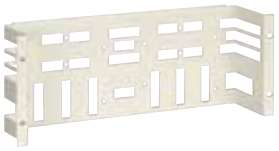
633 929



633 970



633 972



633 973

Pack	Cat.Nos	Block kits
		• block connection • 110C connecting blocks • includes base wiring block • label holders for designation
		With legs
1	633 925	96-pair in 100-pair footprint
1	633 926	288-pair in 300-pair footprint
		Without legs
1	633 928	96-pair in 100-pair footprint

		Patch cords
		110/110 - 4 pairs
10	633 912	Length 1 m

		Accessories
		110 tool
1	332 60	110 tool
1	332 61	Replacement blade
		Designation labelling kits
5	633 968	Pack of two clear strips and white paper
		Rivets
1	633 971	Rivets (pack of 12)
		110 jumper throughs
1	633 969	With legs, 27.3 x 6.83 x 11.9 mm
1	633 970	Without legs, 21.6 x 6.83 x 6.83 mm
		19" enclosure mount 110 panel
1	633 972	Panel for 2 x 100-pair blocks without legs, 2 U
1	633 973	Panel for 2 x 100-pair blocks and two throughs without legs, 4 U

Legrand cabling system LCS²
category 6
RJ 45 sockets


765 63


765 96


794 65


794 33 + cover plate 790 14

Sockets with LCS² connector with fast connection thanks to integrated crimping
Take AWG 22 single-core cables up to AWG 26 and AWG 24 multicore cables
Contacts marked with dual colour code and wiring schemes T 568 A and T 568 B. Conforming to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568

Pack	Cat.Nos	Mosaic RJ 45 sockets cat. 6
		UTP - 1 module
10	765 61	○ White
10	794 61	● Aluminium
10	786 06	○ White, connection with 110 tool
10	794 12	● Aluminium, connection with 110 tool
10	765 81	○ White antimicrobial
		UTP - 2 modules
10	765 64	○ White
10	794 64	● Aluminium
10	786 07	○ White, connection with 110 tool
10	794 13	● Aluminium, connection with 110 tool
		UTP with controlled access - 2 modules
		Supplied with 2 keys for 5 sockets
5	765 94	○ White with red shutter
		UTP 90° - 2 modules
		Vertical snap-on socket for column module
10	765 91	○ White
		UTP 45° - 2 modules
1	765 03	○ White
1	765 14	○ White, connection with 110 tool
		UTP 45° - 2 x RJ 45 - 2 modules
1	765 04	○ White
		UTP retractable RJ 45 socket - 4 modules
		With integrated retractable cord (0.9 m)
		Winds up automatically with a pushbutton
1	765 32	○ White
		UTP 2 x RJ 45 with Soluclip accessory - 3 modules
		For snap-on mounting on DLP trunking with 45 mm cover
5	765 44	○ White

Pack	Cat.Nos	Mosaic RJ 45 sockets cat. 6 (continued)
		FTP - 1 module
10	765 62	○ White
10	794 62	● Aluminium
10	765 82	○ White antimicrobial
		FTP - 2 modules
10	765 65	○ White
10	794 65	● Aluminium
10	765 22	○ White with green shutter
10	765 23	○ White with orange shutter
		FTP 2 x RJ 45 with Soluclip accessory - 3 modules
		For snap-on mounting on trunking with 45 mm cover
5	765 46	○ **White**
		FTP with controlled access - 2 modules
		Supplied with 2 keys for 5 sockets
5	765 95	○ White with red shutter
		FTP 45° - 2 modules
10	765 05	○ White
		FTP 2 x RJ 45 45° - 2 modules
5	765 06	○ White
		FTP retractable RJ 45 sockets - 4 modules
		With integrated retractable cord (0.9 m)
		Winds up automatically with a pushbutton
1/10	765 33	○ White
1/10	794 33	● Aluminium
		FTP 90° - 2 modules
		Vertical snap-on socket for column module
10	765 92	○ White
10	794 92	● Aluminium
		Shielded STP - 1 module
10	765 63	○ White
5	765 83	○ White antimicrobial
		Shielded STP - 2 modules
10	765 66	○ White
		Shielded STP with controlled access - 2 modules
		Supplied with 2 keys for 5 sockets
5	765 96	○ White with red shutter
		Shielded STP 90° - 2 modules
		Vertical snap-on socket for column module
10	765 93	○ White

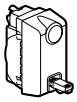
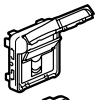
GUARANTEED 2500 INSERTIONS
legrand

Legrand cabling system LCS²
category 6
RJ 45 sockets


673 45 + cover plate titanium 685 51


778 91


695 69

Pack	Cat.Nos	Celiane RJ 45 sockets cat. 6
		UTP socket To create a 1-gang socket, combine mechanism Cat.No 673 44 and a cover plate Cat.No 682 51 (white) or Cat.No 685 51 (titanium) To create a 2-gang socket, combine 2 mechanisms Cat.No 673 44 and a cover plate Cat.No 682 52 (white) or Cat.No 685 52 (titanium)
10	673 44	 **UTP socket**
		UTP retractable RJ 45 socket - 4 modules With integrated retractable cord (0.9 m) Winds up automatically with a pushbutton
10	673 54	To create a 1-gang socket, combine mechanism Cat.No 673 54 and a cover plate Cat.No 682 55 (white) or Cat.No 685 55 (titane)
		FTP socket To create a 1-gang socket, combine mechanism Cat.No 673 45 and a cover plate Cat.No 682 51 (white) or Cat.No 685 51 (titanium). To create a 2-gang socket, combine 2 mechanisms Cat.Nos 673 45 and a cover plate Cat.No 682 52 (white) or Cat.No 685 52 (titanium)
10	673 45	 **FTP socket**
		FTP/UTP retractable RJ 45 socket - 4 modules  With integrated retractable cord (0.9 m) Winds up automatically with a pushbutton
10	673 55 673 54	To create a 1-gang socket, combine mechanism Cat.No 673 55 and a cover plate Cat.No 682 55 (white) or Cat.No 685 55 (titane)
		STP socket To create a 1-gang socket, combine mechanism Cat.No 673 96 and a cover plate Cat.No 682 51 (white) or Cat.No 685 51 (titanium). To create a 2-gang socket, combine 2 mechanisms Cat.No 673 46 and a cover plate Cat.No 682 52 (white) or Cat.No 685 52 (titanium)
10	673 96	**STP socket**
		Keystone RJ 45 sockets cat. 6
10	331 81	UTP socket with fast connection
		Soliroc RJ 45 sockets cat. 6 - IK 10
10	778 91	 IP 20 For at-risk areas or areas with no surveillance FTP socket
		Plexo RJ 45 sockets cat. 6 - IP 55 closed flap IK 07 Protection against water, dust For industrial sites
5/100	695 69	 **FTP socket** ○ Grey/white
1/20	695 61	**UTP socket** ○ Grey/white
1	695 81	 Adapter for RJ 45 socket Weatherproofing ensured (IP 44) plug inserted ○ Grey/white

Pack	Cat.Nos	Celiane RJ 45 sockets cat. 6
		UTP socket
10	685 51	To create 1- gang socket, combine mechanism RJ 45 and a cover plate Cat.No 68251 (white) or Cat.No 685 51 (titanum)
10	685 52	To create 2- gang socket, combine 2 mechanisms RJ 45 and a cover plate Cat.No 682 52 (white) or Cat.No 685 52 (titanum)
10	673 96 673 45 673 44	 Socket RJ 45, STP Socket RJ 45, FTP Socket RJ 45, UTP
		Valena RJ 45 socket cat. 6
		360° metal shielding
		STP - socket RJ 45
10	7742 44 7741 44 7702 44	 ○ White ○ Ivory ● Aluminium
		STP - double socket RJ 45
10	7742 45 7741 45 7702 45	 ○ White ○ Ivory ● Aluminium
		FTP - socket RJ 45
10	7742 32 7741 32 7702 32	 ○ White ○ Ivory ● Aluminium
		FTP - double socket RJ 45
10	7742 33 7741 33 7702 33	 ○ White ○ Ivory ● Aluminium
		UTP - socket RJ 45
10	7742 42 7741 42 7702 42	 ○ White ○ Ivory ● Aluminium
		UTP - double socket RJ 45
10	7742 43 7741 42 7702 43	 ○ White ○ Ivory ● Aluminium
		Bticino Axolute RJ 45 sockets cat. 6
1	HC4279C6 HC4279C6F HC4279C6S	 ○ Tech Axolute RJ45 toolless Cat.6 UTP 1 module Axolute RJ45 toolless Cat.6 FTP 1 module Axolute RJ45 toolless Cat.6 STP 1 module
1	HS4279C6 HS4279C6F HS4279C6S	 ● Anracite Axolute RJ45 toolless Cat.6 UTP 1 module Axolute RJ45 toolless Cat.6 FTP 1 module Axolute RJ45 toolless Cat.6 STP 1 module
1	HD4279C6 HD4279C6F HD4279C6S	 ○ White Axolute RJ45 toolless Cat.6 UTP 1 module Axolute RJ45 toolless Cat.6 FTP 1 module Axolute RJ45 toolless Cat.6 STP 1 module

Legrand cabling system LCS²
category 5e
patch panels, blocks of connectors



335 52



335 90



335 55



FTP cat. 5e connector

Pack	Cat.Nos	Patch panels cat. 5e 24 x RJ 45 connectors
		Panels supplied with quick-fixing All enclosures or cabinets general assembly Panels ensure automatic grounding of each connector Fitted with rear cable guide to hold cables during maintenance Fitted with 4 units of 6 LCS² RJ 45 connectors cat 5e with fast connection thanks to integrated crimping, with colour code and wiring schemes T 568 A and T 568 B Supplied with colour labels numbered from 1 to 24 Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568 19" panel - 1 U
		UTP panel
1	335 51	UTP panel - 8 contacts
1	335 82	UTP panel - 8 contacts - connection with 110 tool
1	335 83	UTP high density panel - 8 contacts - connection with 110 tool
		FTP panel
1	335 52	FTP panel - 9 contacts
		UTP through panel 24 RJ 45 connectors
1	335 88	UTP through panel

Pack	Cat.Nos	Patch panels cat. 5e 24 x RJ 45 connectors 110
		Panels supplied with screws All enclosures or cabinets general assembly Fitted with 4 units of 6 RJ 45 connectors cat. 6 connection with 110 tool, with colour code and wiring schemes T 568 A and T 568 B Supplied with labels numbered from 1 to 24 Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-2 and TIA/EIA 568 19" 1 U panels
1	335 80	UTP panel - 8 contacts - connection with 110 tool
1	335 81	UTP high density panel - 8 contacts - connection with 110 tool

Pack	Cat.Nos	Modular panels
		Panels supplied with fast assembly All enclosures or cabinets general assembly Panels ensure automatic grounding of each connector Fitted with rear cable guide to hold cables during maintenance Modular empty panels for up to 4 units Takes the following equipment: - units of 6 LCS² RJ 45 connectors - units for telephone inlets - fibre optic units - PoE injector units - video streaming units - switch units - telephone/Ethernet splitter units - copper/fibre optic converter units - blanking plates
1	335 90	19" panel - 1 U

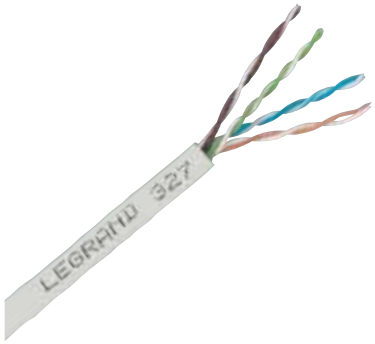
		Units of 6 x RJ 45 connectors cat. 5e
		Fitted with 6 x LCS² RJ 45 connectors cat. 5e with fast connection thanks to integrated crimping, with colour code and wiring schemes T 568 A and T 568 B Supplied with colour labels Conforms to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568
2	335 54	UTP unit
2	335 55	FTP unit
10	335 91	Blanking plate for 19" panel - Black

POE+ READY LCS2 connectors Cat.5e, Cat.6 and Cat.6A are tested well beyond the IEC 60512-99-001 and allow up to 2500 insertions under PoE+

Bloc with controled access
see p. 80



Legrand cabling system LCS²
category 5e
cables



328 50

Pack	Cat.Nos		Cables for local networks cat. 5e
			4 twisted pair cables 100 ohms LSZH sleeve: non-halogen Grey RAL 7035 Colour code TIA/EIA
	LSZH	PVC	**U/UTP - 4 pairs**
305(1)	327 50		Length 305m Supplied in cardboard box. Weight 10 kg
500(1)	328 53		Length 500 m Supplied on reel. Weight 15 kg
1000(1)	328 73		Length 1000 m Supplied on reel
305(1)		327 51	Length 305m Supplied in cardboard box. Weight 9 kg
1000(1)		328 74	Length 1000 m Supplied on reel
			U/UTP - 2x4 pairs
500(1)	328 55		Length 500 m Supplied on reel. Weight 34 kg
500(1)		327 73	Length 500 m Supplied on reel
			F/UTP - 4 pairs
305(1)	327 52		Length 305 m Supplied in cardboard box. Weight 12 kg
500(1)	328 50		Length 500 m Supplied on reel. Weight 21 kg
305(1)		327 53	Length 305 m Supplied by box. Weight 11 kg
			F/UTP - 2x4 pairs
500(1)	327 74		Length 500 m Supplied on reel. Weight 38 kg

(1) in metre(s)

Legrand cabling system LCS²
category 5e
cords



516 40

Pack	Cat.Nos	RJ 45 patch cords and user cords cat. 5e
		RJ 45 - RJ 45 right
	PVC	**U/UTP unscreened impedance 100 Ω**
		Grey
1	516 36	Length 1m
1	516 37	Length 2m
1	516 38	Length 3m
1	516 39	Length 5m
		F/UTP screened impedance 100 Ω
		Grey
1	516 40	Length 1 m
1	516 41	Length 2 m
1	516 42	Length 3 m
1	516 43	Length 5 m

Legrand cabling system LCS²
category 5e
zone distribution boxes



335 40



335 40 fitted with SC fibre optic unit, accessory Cat.No. 335 20 and a 6 x RJ 45 connector unit

Pack	Cat.Nos	Zone distribution boxes
		For distribution of low current in a zone fitted with 1 to 12 RJ 45 sockets Centralise connections to guarantee flexibility and adaptability of the installation Installed on false ceiling or false floor Connect to the patch panel or the floor cabinet Connection to an RJ 45 socket with stripped cord or to a Mosaic RJ 45 socket with copper feedthrough with an RJ 45/RJ 45 cord IP 21 - IK 07 Conform to standards UTE C 15-900, NF C 15-100, NF C 20-730, EN 50-174.2, CEI 60950, ISO/IEC 11801 Ed. 2.0, EN 50173-2 and TIA/EIA 568 Colour code and wiring schemes T 568 A and T 568 B Cords and cables: ISO 11801 Ed.2.0, EN 50173-1, TIA/EIA 568 Technical characteristics: - polycarbonate PC hood - polypropylene PP base - RAL 7035 - hold connector units in place in the box: 100 N - Cables anchored on support using Colring cable ties
		Self-assembly zone distribution box
1	335 40	Used for mounting LCS² RJ 45 connector blocks cat. 5e (p. 76)

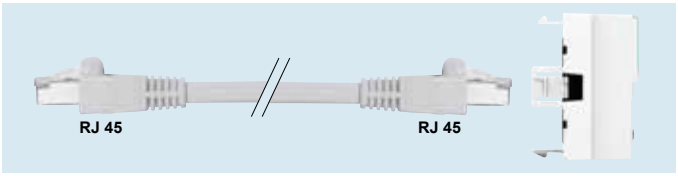
Legrand cabling system LCS²
category 5e
cords specifically for zone distribution boxes feedthrough sockets



515 03



786 25



Connection principle

Pack	Cat.Nos	Cords cat. 5e - RJ 45 / stripped
		RJ 45 - straight stripped. Clip on and off in the zone distribution boxes and RJ 45 socket connection via LCS² connector via the stripped side. Cords prepared in factory, "ready for wiring". Conform to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568. Grey RAL 7035 Wiring in T 568 B
		U/UTP unscreened impedance 100 Ω
4	517 90	Length 8 m
4	517 91	Length 15 m
4	517 92	Length 20 m
		F/UTP screened impedance 100 Ω
4	517 93	Length 8 m
4	517 94	Length 15 m
4	517 95	Length 20 m

Pack	Cat.Nos	Cords cat. 5e - RJ 45/RJ 45
		For direct connection via RJ 45 male plug to the zone distribution box and to the RJ 45 socket with copper feedthrough to ensure: - safe connection - speed and reliability of connection Grey RAL 7035
		U/UTP unscreened impedance 100 Ω
4	515 00	Length 8 m
4	515 01	Length 15 m
4	515 02	Length 20 m
		F/UTP unscreened impedance 100 Ω
4	515 03	Length 8 m
4	515 04	Length 15 m
4	515 05	Length 20 m

		Sockets with copper feedthrough cat. 5e
		Easy connection at the rear through simply attaching a male plug. Ensures network access for the RJ 45 socket. Used to create cat. 5e links. According to standards ISO 11801 Ed.2, EN 50173-1 and TIA/EIA 568 within the framework of operation with zone distribution boxes. Multidirectional cord entry. Installation possible in all supports with a min. 40 mm depth. 2 modules
		Cat. 5e UTP
	Mosaic	
10	786 20	○ White
10	786 24	● Aluminium
		Cat. 5e FTP
	Mosaic	
10	786 21	○ White
10	786 25	● Aluminium

Bloc with controled access
see p. 80



Legrand cabling system LCS²
category 5e
RJ 45 sockets


765 52


794 55


695 57

Sockets with LCS² connector with fast connection thanks to integrated crimping
Take AWG 22 single-core cables up to AWG 26 and AWG 26 multicore cables
Contacts marked with dual colour code and wiring schemes T 568 A and T 568 B
Side cable inlet for easy installation in all supports
Conforms to standards ISO/IEC 11801 Ed. 2.0, EN 50173-1 and TIA/EIA 568

Pack	Cat.Nos	Mosaic RJ 45 sockets cat. 5e
		UTP - 1 module
10	765 51	○ White
10	794 51	● Aluminium
		UTP - 2 modules
10	765 54	○ White
10	794 54	● Aluminium
10	765 18	○ White, connection with 110 tool
		UTP with controlled access - 2 modules
		Supplied with 2 keys for 5 sockets
5	765 97	○ White with red shutter
		UTP - 2 x RJ 45 with Soluclip accessory - 3 modules
		For snap-on mounting on DLP trunking with 45 mm cover
5	765 41	○ White
		UTP retractable RJ 45 socket - 4 modules
		With integrated retractable cord (0.9m)
		Winds up automatically with a pushbutton
1	765 30	○ White
		UTP 45° - 2 modules
10	765 01	○ White
		2 x RJ 45 UTP 45° - 2 modules
5	765 02	○ White
		FTP - 1 module
10	765 52	○ White
10	794 52	● Aluminium
		FTP - 2 modules
10	765 55	○ White
10	794 55	● Aluminium
		FTP - 2 x RJ 45 with Soluclip accessory - 3 modules
		For snap-on mounting on Mosaic trunking with 45 mm cover
5	765 42	○ White

Pack	Cat.Nos	Valena RJ 45 socket cat. 5e
		FTP - socket RJ 45
10	7742 40	○ White
	7741 40	○ Ivory
	7702 40	● Aluminium
		FTP - double socket RJ 45
10	7742 41	○ White
	7741 41	○ Ivory
	7702 41	● Aluminium
		UTP - socket RJ 45
10	7742 38	○ White
	7741 38	○ Ivory
	7702 38	● Aluminium
		UTP - double socket RJ 45
10	7742 39	○ White
	7741 39	○ Ivory
	7702 39	● Aluminium

Pack	Cat.Nos	Keystone RJ 45 socket cat. 5e
10	331 80	UTP socket with fast crimping connection

Pack	Cat.Nos	Plexo RJ 45 sockets, cat. 5e - IP 55 closed flap IK 07
		Protection against water, dust
		For industrial sites
1/20	695 57	FTP socket ◐ Grey/White
1/20	695 56	UTP socket ◐ Grey/White
1	695 81	Adapter for RJ 45 socket Ensures weatherproofing (IP 44) with the plug inserted ◐ Grey/White

Mosaic sockets with copper feedthrough (p. 73)



Mosaic audio/video sockets

see p. 90

GUARANTEED 2500 INSERTIONS
legrand

Legrand cabling system LCS²

LCS² system additional products cat. 6A, LCS² cat. 6, LCS² cat. 5e


335 39


335 34


335 12


0 334 75


335 02


332 93


335 01


327 37

Pack	Cat.Nos	Modular panels
		Panels supplied with captive screws and cage nuts or with quick fixing Universal mounting for all enclosures or cabinets Panels ensure automatic earthing of each connector Fitted with rear cable guide to hold cables in place during maintenance Modular empty panels for up to 4 units Take the following equipment: - units of 6 x LCS² RJ 45 connectors - units for telephone inlets - fibre optic units - PoE injector units - video streaming units - switch units - telephone/Ethernet splitter units - copper/fibre optic converter units - blanking plates
1	335 90	19" panel - 1 U

		Splitter units
		Units of 6 x LCS² RJ 45 splitter connectors for fast tool-free connection Used with splitter sockets (p. 81)
2	335 54	UTP unit
2	335 55	FTP unit
10	335 91	Blanking plate for 19" panel - Black
		Ethernet/Ethernet splitters 100 base T
1	335 39	FTP - 9 contacts
1	335 38	UTP - 8 contacts
		Telephone/Ethernet splitters 100 base T
1	335 37	FTP - 9 contacts
1	335 36	UTP - 8 contacts
		Telephone/telephone splitter
1	335 35	45 contacts

		Video streaming unit
1	335 34	Block of 6 "F" connectors for video circuits

		Fibre optic units
		Clip directly onto fibre optic enclosure Cat.No 335 10 (p. 86), on the patch panels with fibre optic cassette Cat.No 335 11 (p. 86) or in the zone distribution boxes with fibre optic accessory Cat.No 335 20 (p. 88)
		Singlemode fibre units (9/125 µm)
1	335 13	LC unit for 6 singlemode fibres
1	335 12	SC unit for 6 singlemode fibres
		Multimode fibre units (62.5 and 50/125 µm)
1	335 16	ST unit for 6 multimode fibres
1	335 17	SC unit for 6 multimode fibres
1	335 18	LC unit for 6 multimode fibres
1	**335 19**	High-density LC unit for 12 multimode fibres

Pack	Cat.Nos	Blanking plates
		Set of 12 blanking plugs for RJ 45 LCS² connector
10	517 40	White
10	517 41	Black
		Blanking plate for 19" panel
10	335 91	Black

		Blocs for controled access
		Solution to secure the passive RJ45 connection for sensitive networks. Allows to lock/unlock the cord using a dedicated tool.Adapts to 19" LCS2 patch panels Cat.5e, Cat.6, Cat6A. Compatible with LCS2 patch cords Cat.5e, Cat.6, Cat6A.
2	334 71	Black Shutter
2	334 72	Blue Shutter
2	334 73	Red Shutter
2	334 74	Orange Shutter
2	334 75	Green Shutter
		Tool to lock/unlock the blocs for controled access
5	334 70	Locking tool

		Ethernet switches 100 Mbps
		Mounted in the patch panel Conform with standards IEEE 802-3, EN 500 81-1 and EN 500 82-1 (Conformity with EMC requirements)
		Switch units for patch panel
		Clip directly onto the patch panels
1	335 02	7 RJ 45 ports at the front, 1 of which is a cascade port Power supply with transformer provided
1	335 05	6 RJ 45 ports + 1 LC type optic port with front-mounted cascade 100 base FX type LC Power supply via transformer provided
		Boxes to be installed on shelf
1	**332 93**	5 RJ 45 port switch Power supply via transformer provided Dimensions: 116 x 70 x 25
1	**332 91**	8 RJ 45 port switch Power supply via transformer provided Dimensions: 171 x 98 x 29
1	**332 81**	**Mini shelf** For switch Cat.Nos 332 91/93 Dimensions: 220 x 220 x 43 mm For horizontal, vertical or projecting mounting of the switch Supplied with system for retaining the live product

		Copper/fibre optic converter units
		Simply and quickly permit copper to fibre conversion and vice versa Clip directly onto the patch panels Fitted with an SC type fibre optic connector
1	335 06	10/100 base T to 10/100 base FX type SC
1	335 07	1000 base T to 1000 base SX type SC

		Midspan Power over Ethernet (PoE) injectors
1	335 01	4 inlets/outlets Used for supplying 4 Wi-Fi access points Clips directly onto a patch panel
1	327 37	1 inlet / outlet Used for supplying a Wi-Fi access point Direct connection to the patch panel

Legrand cabling system LCS²
splitter sockets and accessories


539 49



533 00 in position (no cord supplied)


533 01


327 60


517 09

Pack	Cat.Nos	RJ 45 splitter sockets
		Ethernet/Ethernet
10	Mosaic 765 39	FTP - 9 contacts
10	765 38	UTP - 8 contacts
		Telephone/Ethernet
10	Mosaic 765 37	FTP - 9 contacts
		UTP - 8 contacts
10	Mosaic 765 36	
		Telephone/telephone
10	Mosaic 765 35	45 contacts

		Mobile splitters
		Clip into RJ 45 sockets to double applications
10	327 83	TV/computer network or telephone double connector
10	327 47	Telephone/telephone splitter
10	327 45	Computer network/telephone splitter
10	327 46	L1/L2 telephone splitter
10	327 48	Computer network/computer network double connector

		Weatherproof adapters
		IP 55 - IK 07
		Allow all functions to be adapted
	Grey/White	2 Mosaic modules IP 55 operation
10	695 80	Adapter with smoked flap
1	695 79	Adapter with smoked flap lockable by special tool
1	695 81	Adapter for RJ socket ensuring IP 44 waterproofness cable already connected
1	919 45	Locking tool (used for changing vandal-proof screws)
		Soliroc adapter
		Used for adapting all functions
		2 Mosaic modules
		IK 10 - IP 55
1	778 80	Adapter with flap
1	778 81	Adapter without flap
		Hypra adapter
5	539 49	IP 55 adapter base

Pack	Cat.Nos	Cable protection accessories
		Plastic material
		IP 66/67 guaranteed connection with the pair 533 02
		IP 55 with no connection for base with shutter
		Protection for RJ 45 shielded or unshielded cables ensuring a link of category 5
		Conform to standards of the IEC 60603-7 series and to standard IEC 61076-3-106 (version 5)
		Compatible with products on the market
		Compatible with products on the market conforming to the standards listed
		Plug
3	533 00	Integrated PE with sealing ring and clamping blades
		Tool-free assembly
		Ability to protect cables of category 5e
		Flush-mounting base
3	533 01	Locking base
		Supplied with RJ 45 female / female coupler cat. 5e
		Kit
3	533 02	Flush-mounting base + plug
		Protective flap
3	533 03	Fits on base Cat.No 533 01

		RJ plugs for round cables
		Gold-coated contacts 1.2 µm
		RJ 11
50	517 01	4 contacts, width 9.65 mm
		RJ 12
50	517 02	6 contacts, width 9.65 mm
		RJ 45 cat. 5e
50	517 03	8 contacts, width 11.70 mm
50	517 04	9 contacts, width 11.70 mm
		RJ 45 sleeves
50	517 06	Black
50	517 07	White

		Stripping tool
		Slits the sheath and releases the conductors by rotation
		For twisted pair cables
		Does not damage the conductors
		Stripper
1	332 62	For twisted pair and fibre optic cable
		Cutting pliers
1	327 60	Cut wires cleanly without damaging the copper

		Crimping tool for RJ 45 plugs
		Used for crimping plugs
		RJ 4/6/8/9 contacts
		Ratchet control of crimping mechanism
		Able to cut and strip cables
1	517 09	Tool with 3 crimping points
		High resistance steel material

		110 tool
1	332 60	110 tool
1	332 61	Replacement blade

Legrand cabling system LCS²
telephone panels, units and cables



335 79

Pack	Cat.Nos	Patch panel telephone 50 ports 110 connect
1	335 79	19" panel - 1 U

Pack	Cat.Nos	Cables for telephone networks cat. 3
		PVC sleeve Colour white Colour code TIA/EIA
1	328 91	**U/UTP - 50 pairs** Length 500m Supplied on reel
1	328 88	**U/UTP - 100 pairs** Length 500m Supplied on reel

Pack	Cat.Nos	Panels and units for incoming telephone
		Panels assembled - 1 U Fitted with 4 LCS² RJ 45 units of 12 ports with fast tool-free connection
1	335 31	3-6/4-5 contacts for digital telephone
1	335 30	4-5/7-8 contacts for analogue telephone
		Incoming telephone units for self-assembly panels Fitted with 12 LCS² RJ 45 ports with quick tool-free connection
2	335 33	3-6/4-5 contacts for digital telephone
2	335 32	4-5/7-8 contacts for analogue telephone

Legrand cabling system LCS²
Wi-Fi
switches, distributors and Wi-Fi access points

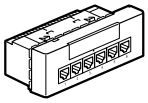
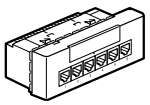


779 00



332 80

Technical characteristics (p. 112)

Pack	Cat.Nos	Flush-mounting 10/100 base T switches
		For networking computer peripherals without a patch panel: computers, printers, servers, etc. Possibility of extending an existing network by simply replacing an RJ 45 socket Tool-free connection Conform with standards IEEE 802.3 (Ethernet) and EN 500 81/82-2 (EMC requirements) Installation in all supports with minimum 40 mm depth 6 ports at the front + 1 side RJ 45 connector for cabling and carrying out link tests Port status display integrated into the RJ 45 connectors Labelling of each port from 1 to 6 and marker holder for switch identification 6 modules
	Mosaic	**Non-manageable**
1	779 01	 PoE power supply (Power over Ethernet - standard 802.3 af)
1	779 00	230 V**A** power supply
	Mosaic	**Manageable**
1	779 20	 230 V**A** power supply

Pack	Cat.Nos	Mosaic VDI distribution block without connectors
1	332 80	16 modules Dimensions: 135 x 223 x 57 mm For small patch panel For mounting a Mosaic switch Cat.Nos 779 00/01/20

RJ 45 Patch cords and user cords cat. 6
(p. 77)

Legrand cabling system LCS²
Wi-Fi
switches, distributors and Wi-Fi access points (continued)


779 14


779 13

Pack	Cat.Nos	
		Manageable Wi-Fi access points 802.11a & b/g
		Dual-band and dual-radio Conform with standards 802.11a and 802.11b/g Gross speed: 54 Mbps max. on each frequency (802.11a and 802.11g) simultaneously Can be installed in addition to a new or existing LCS/LCS² structured cabling system to meet mobile working requirements Can be integrated into all compatible supports with minimum 40 mm depth Tool-free network connection via RJ 45 connector PoE power supply (Power over Ethernet - standard 802.3 af) The installation must include at least: - Wi-Fi access point - a PoE injector conforming with 802.3af (LCS² unit format) to be installed in the patch panel The management function allows the network administrator to manage Wi-Fi access points remotely via a web interface Security via WPA2 encryption (802.11i) and 802.1x authentication Guest access: allows visitors free access to the Internet (access independent of the main Wi-Fi network). 4 modules
	Mosaic	
1	779 14	With RJ 45 socket on front ◯ White
1	779 13	With no RJ 45 socket ◯ White
	Celiane	● Magnesium
1	673 66	With RJ 45 socket on front
		Manageable Wi-Fi access points 802.11n
1	335 22	Wi-Fi surface-mounted access point 802.11n
1	335 21	Wi-Fi ceiling-mounted access point 802.11n
		Wi-Fi network management system
		Controller 5 APs
1	335 25	Controller 5 APs
		Extension licence Ability to control up to 25 APs (for more than 25 APs please contact Legrand) Card that adds to the controller Cat.No 335 25
1	335 26	Up to 10 APs
1	335 27	Up to 25 APs
		Access point manager (disembedded) APs centralised configuration software
1	335 24	Access point manager
		Midspan Power over Ethernet (PoE) injectors
1	335 01	4 inlets/outlets Used for supplying 4 Wi-Fi access points Clip directly onto a patch panel
1	327 37	1 inlet / outlet Used for supplying a Wi-Fi access point Direct connection to the patch panel

Optimised installation of Wi-Fi access points

Wi-Fi performance is linked closely to its installation. It is the key for success in guaranteeing good connectivity for each user for each application.



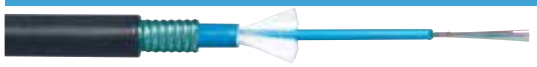
KEY ELEMENTS FOR DETERMINING THE INSTALLATION AND SIZING OF A WI-FI NETWORK

- **Features of the building :** types of walls, surface, coverage area, environment, etc.
- **Wi-Fi network usages**: telephone and office information systems, public access, hot spots, etc., directly determine connection speed
- **Number of users in each room :** capacity in terms of who can connect to the Wi-Fi network.

THE LEGRAND WI-FI SYSTEM OFFER

The offer is based on quick and intuitive installation and settings.
Legrand's sales teams will help you with your projects.

Legrand cabling system LCS²
fibre optic
fibre cables



325 15



325 06



325 10



325 08

Fibre cables:
- fibre colour code: FOTAG
- standard: EN 50173-2, ISO IEC 11801

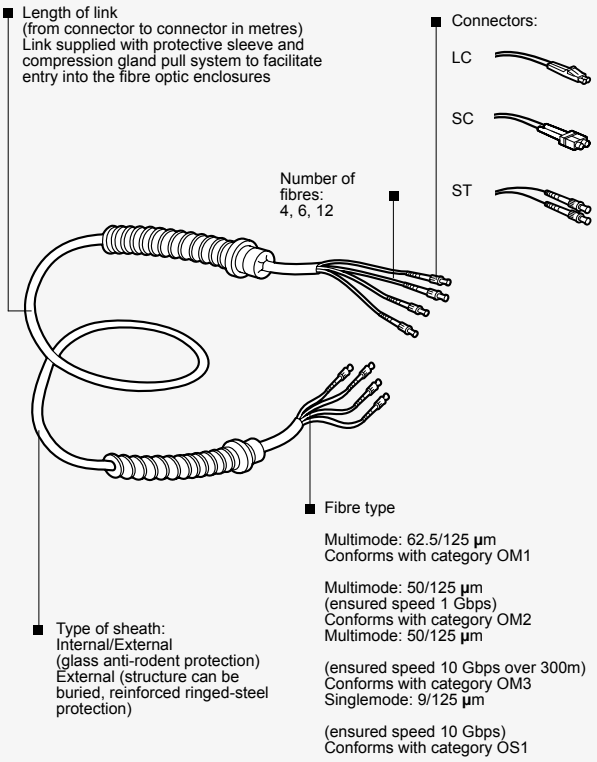
Pack	Cat.Nos		
	Loose tube	900 µm Tight buffer	
OS 1/ OS 2 singlemode optical cables (9/125 µm)			For 9/125 µm singlemode installations (OS 1) Yellow jacket
2000(1)	325 12		Indoor/outdoor (universal) 6 fibres
2000(1)	325 13		Outdoor, corrugated steel tape 6 fibres
2000(1)	325 14	325 50	Indoor/outdoor (universal) 12 fibres
2000(1)	325 15		Outdoor, corrugated steel tape 12 fibres
2000(1)	325 51		Indoor/outdoor (universal) 24 fibres
OM 4 multimode optical cables (50/125 µm)			For 50/125 µm multimode installations (OM4) Blue jacket 10 Gigabit Ethernet compliant
	Tight Buffer 900 µm		
500	32665		indoor/outdoor 6 fibres - 500m
1000	326 66		indoor/outdoor 6 fibres - 1000m
1000	326 67		indoor/outdoor 12 fibres - 1000m
1000	326 68		indoor/outdoor 24 fibres - 1000m Caution:
OM 3 multimode optical cables (50/125 µm)			For 50/125 µm multimode installations (OM 3) Green jacket 10 Gigabit Ethernet compliant
	Loose tube	900 µm Tight buffer	
2000(1)		325 10	Indoor/outdoor (universal) 6 fibres
2000(1)		325 11	Indoor/outdoor (universal) 12 fibres
2000(1)	325 53	325 52	Indoor/outdoor (universal) 24 fibres
OM 2 multimode optical cables (50/125 µm)			For 50/125 µm multimode installations (OM 2) Orange jacket
	Loose tube	900 µm Tight buffer	
2000(1)		325 54	Indoor/outdoor (universal) 2 fibres
2000(1)	325 59	325 55	Indoor/outdoor (universal) 4 fibres
2000(1)	325 04	325 08	Indoor/outdoor (universal) 6 fibres
2000(1)	325 05		Outdoor, corrugated steel tape 6 fibres
2000(1)	325 06	325 09	Indoor/outdoor (universal) 12 fibres
2000(1)	325 07		Outdoor, corrugated steel tape 12 fibres
2000(1)	325 60	325 58	Indoor/outdoor (universal) 24 fibres

(1) in metre(s)

customised
fibre optic links

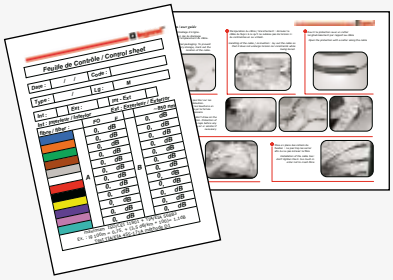


FIBRES PRE-FITTED WITH CONNECTORS



DOCUMENTS

Each link is supplied with a test report (fibre by fibre) and illustrated operating instructions



PACKAGING

According to length of link:
- packed on a reel
- packed on a ring

Connector protection by tube



Reel

Legrand cabling system LCS²
fibre optic
case and rapid crimping connectors

NEW



0 326 90





0 326 57



0 326 58



0 326 53

Emb.	Réf.	Installation case for fast crimping connectors
1	326 90	Used for quick and simple installation, as well as light test of ST,SC or LC fibre connectors. Complete kit composed of: -Instructions and installation video -Stripping tool (for fibres and cables) -Cleaving tool -Microscope for checking the quality of the cut -Visual fault locator with cord -Accessories (ultra resistant scissors, marker, protection glasses…)
		Fast crimping connectors Easy to connect, reliable, and can be re-terminated 5 times. Micro-switch for securing the fibre inside the connector, and light indicator allowing fault verification after procedure. These connectors do not require any adhesive, polishing or other tools than the kit Cat.No 032690. Can be installed on tight buffered fibre 900µm. For loose tube fibre 250, use breakout kits Cat. No 033048 or 033049.
		Multimode connectors
10	326 57	Connector SC/UPC 50 µm OM3/OM4 900 µm
10	326 58	Connector LC/UPC 50 µm OM3/OM4 900 µm
10	326 56	Connector ST/UPC 50 µm OM3/OM4 900 µm
10	326 62	Connector SC 62,5 µm OM1 900 µm
10	326 61	Connector ST 62,5 µm OM1 900 µm
		Singlemode connectors
10	326 52	Connector SC/UPC 9 µm OS1/OS2 900 µm
10	326 53	Connector LC/UPC 9 µm OS1/OS2 900 µm
10	326 54	Connector SC/APC 9 µm OS1/OS2 900 µm
		Upgrade kit for case 033193
1	326 91	Composed of: -Adaptor for connectors -Visual fault locator with cord -Support for connector

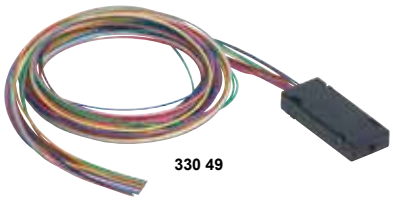
Legrand cabling system LCS²
fibre optic
Mosaic glue-on connectors and sockets



331 27



331 00



330 49

Pack	Cat.Nos	Precision fibre optic cleaver
1	331 97	FO cleaver
		Pigtails
		Supplied with 900 µm sleeve, 1 m
		OM4 - 50/125 µm
10	**32670**	LC connector
1	**32671**	12xLC-PC connector
		OM3 - 50/125 µm
1	326 22	SC connector
1	326 23	LC connector
1	326 27	6 x LC-PC connectors
1	326 26	12 x LC-PC connectors
		9/125 µm
1	326 20	SC connector
1	326 21	LC connector
1	326 25	6 x LC-UPC connectors
1	326 24	12 x LC-UPC connectors
		Thermoretractable sleeve for pigtails
1	327 44	40 mm - pack of 50 sleeves
		Cassette for pigtails
1	329 07	12-fibre capacity
1	326 72	24 fibre capacity
		Glue-on connectors 50/125 and 62.5/125 µm Supplied with sleeve 900 µm Connectors with ceramic ferrule Typical attenuation: 0.3 dB
10	331 27	ST connector
10	331 47	SC connector
10	331 00	LC connector
		Breakout kits
		For 900 µm of optical fibres Take 250 µm fibre diameters
1	330 48	6 fibre breakout kit
1	330 49	12 fibre breakout kit

Legrand cabling system LCS²
fibre optic
19" fibre optic drawers



335 10 fitted with fibre optic units



335 13



335 11 fitted with fibre optic unit 335 17

Pack	Cat.Nos	19" optic drawer
1	335 10	Modular optic drawer Slide-in and modular drawer Limit switch stop with 45° slope Maximum capacity: - 24 x ST and SC connectors ST - 48 x LC connectors Depth 220 mm, height 1 U Supplied with screws and wiring accessories Takes up to 4 fibre optic units (see below)

		Fibre optic units
		Clip directly onto the fibre optic drawer Cat.No 335 10 or on the patch panels with fibre optic cassette Cat.No 335 11
		Singlemode fibre units (9/125 µm)
1	335 13	LC unit for 6 singlemode fibres
1	335 12	SC unit for 6 singlemode fibres
		Multimode fibre units (62.5 and 50/125 µm)
1	335 16	ST unit for 6 multimode fibres
1	335 17	SC unit for 6 multimode fibres
1	335 18	LC unit for 6 multimode fibres
1	335 19	High-density LC unit for 12 multimode fibres

		Switch/fibre optic unit
		Clips directly onto the patch panels
1	335 05	6 x RJ 45 ports + 1 cascade LC type optic port at the front Power supply via transformer provided

		Copper/fibre optic converter units
		For simply and fast copper to fibre conversion and vice versa Clip directly onto the patch panels Fitted with an SC type fibre optic connector
1	335 06	10/100 base T to 10/100 base FX type SC
1	335 07	1000 base T to 1000 base SX type SC

		Fibre optic cassette for patch panel
1	335 11	Ensures fibre coiling (from 2 to 12 fibres) Takes a fibre optic unit Cat.Nos 335 12/13/16/17/18/19 Used for linking copper and fibre optic blocks on the same LCS² patch panel

		Blanking plate for 19" panel
10	335 91	Black

NEW

Legrand cabling system LCS²
fibre optic
FTTO(Fiber To The Office) - Full IP





Compliant to standards IEEE 802.3 (Ethernet), PoE 802.3af, PoE+ 802.3at, 802.1 port authentification, 802.1q VLAN trunking.
Compatible SNMP, IPv6, QoS level 2 (802.1p) and level 3 (DiffServ), VLAN, Rapid Spanning tree, IGMPv3 snooping

Pack	Cat.Nos	Shared workspace
1	77905	**Fibre optic / copper switch** Converts and distributes signal from 1 port SFP (duplex LC 1000Base SX included) to 4 ports RJ45 10/100/1000 auto-MDI/X and auto negotiation PoE/ PoE+ in front, and one side RJ45 10/100/1000 auto negotiation for network extension. Fully manageable. without ventilator, and including front individual label holder per port. Integrates in 4module support (45x90mm), with depth 40mm minimum. Power supply60W Cat.No 077906 included. Requires 4 modules space.
1	77906	**Power supply** Power supply 60W for swith Cat.No 077905. To be installed in trunking.

		Individual workspace
1	32680	**Active zone box** Converts and distributes signal from 1 port SFP (duplex LC 1000Base SX included) to 4 ports RJ45 10/100/1000 auto-MDI/X and auto negotiation PoE/ PoE+ in front2 dry contact sensor inputs and 2 activation outputs Including individual label holder per port Integrates in the false ceiling or raised floor with kit Cat.No. 032681/82 Power supply 230v ~
		Supports Support include the bend limiting fibre cassette with quad LC
1	32681	For installation of active zone box Cat.No 032680 in false ceiling. Pivoting door for access.
1	32680	
1	32682	For installation of active zone box Cat.No 032680 in raised floor.
		Auxillary contacts
1	32683	**Dry contact for active zone box Cat.No 032680 which converts signal to IP network.**
		Battery
1	**32684**	For active zone box Cat.No 032680 in case of power failure. 52V – 800mAh. Integrates directly into the box. Automatic connection.

Legrand cabling system LCS²
fibre optic
High density and Wall mount



0 326 40



0 326 42



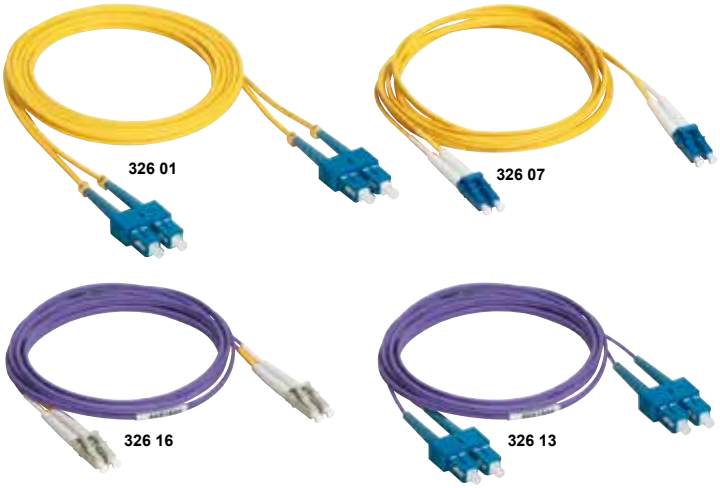
0 462 91



0 326 46

Emb.	Réf.	
		High density fibre panels
		Fibre panels for cassettes Empty chassis to receive fiber cassettes. The 2U can receive up to 12 cassettes for maximum capacity 288 LC or 144 SC connectors The 1U can receive up to 5 cassettes for maximum capacity 120 LC or 60 SC connectors
1	32640	1U with front patch cord management
1	326 42	2U with front patch cord management
	326 41	1U without front patch cord management
		Fibre cassettes Clip directly into the high density fibre panels Cat.No 032640/41/42 Front removal with tool provided High performance MTP Elite® (compatible MPO), low insertion loss <0.35dB, A/C polarity
1	32645	24 LC OM4 to 2 MTP Elite® type A/C
	32646	12 SC OM4 to MTP Elite® type A/C
	32647	24 LC OS1/OS2 to 2 MTP Elite® type A/C
	32648	12 SC OS1/OS2 to MTP Elite® type A/C
	32649	blanking cassette
		1 : MTP Elite® is a trademark of US Conect Ltd
		Wall mount fiber cabinet
		CabinetIP20 - IK 08 Reversible metal cabinet lockable with key. IP20 – IK 08 Accepts up to 4 units Cat.No 33512/13/16/17/18/19 or 32570/71/72/73/74/75/76/77/78 Includes 1 cable gland IP 20 and 15 cable entries Can accept splice cassettes 032927 and 032672
1	462 90	Empty cabinet
1	462 91	Cabinet equipped with 2 units of 6 SC multimode each
		Fibre optic units
		Clip directly onto the optic drawer Cat. No 325 69 **Single mode fibre units (9/125 µm)**
1	325 73	LC duplex unit forb 12 singlemode fibres - blue
1	325 74	LC quadriplex unit forb 24 singlemode fibres - blue
1	325 70	ST duplex unit forb 12 singlemode fibres - blue
1	325 71	SC duplex unit forb 12 singlemode fibres - blue
1	325 72	MPO unit type A for 6 x 12 singlemode fibres - blue
		Multimode fibre units (62.5 and 50/125 µm)
1	325 78	LC duplex unit for 12 multimode fibres - beige
1	325 79	LC quadriplex unit forb 24 multimode fibres - beige
1	325 75	ST duplex unit for 12 multimode fibres - beige
1	325 76	SC duplex unit for 12 multimode fibres - beige
1	325 77	MPO unit type A for 6 x 12 multimode fibres - beige
		Accessory
1	335 93	Blanking plate

Legrand cabling system LCS²
fibre optic
Patch cords



Technical characteristics (p. 89)

Fitted with 2 connectors with ceramic ferrule at either end
Packed and tested singly (report supplied)
Zipcord LSZH sleeve

Pack	Cat.Nos	**OS 1/OS2 (UPC) singlemode optical cords**
		Max. optical losses: 0.3 dB For OS1 9/125 µm singlemode installations, OS 1 type Yellow sheaths
		SC/SC duplex cords
3	326 00	Length: 1 m
3	326 01	Length: 2 m
3	326 02	Length: 3 m
		SC/LC duplex cords
3	326 03	Length: 1 m
3	326 04	Length: 2 m
3	326 05	Length: 3 m
		LC/LC duplex cords
3	326 28	Length: 0.5 m
3	326 06	Length: 1 m
3	326 07	Length: 2 m
3	326 08	Length: 3 m
		OM 4 (PC) multimode optical cords
		Suitable for 10Gb Ethernet network Max. optical losses: 0.3dB For 50/125 µm multimode instalaltions, OM3 type Blue sheaths
		Cord duplex SC/SC
3	326 30	Long. : 1 m
3	326 31	Long. : 2 m
3	326 32	Long. : 3 m
		Cord duplex LC/LC
3	326 33	Long. : 0,5 m
3	326 34	Long. : 1 m
3	326 35	Long. : 2 m
3	326 36	Long. : 3 m
3	326 37	Long. : 5 m
		OM 3 (PC) multimode optical cords (50/125 µm)
		Suitable for 10 Gb Ethernet network Max. optical losses: 0.3 dB For 50/125 µm multimode installations, OM 3 type Purple sheaths
		SC/SC duplex cords
3	326 09	Length: 1 m
3	326 10	Length: 2 m
3	326 11	Length: 3 m
		SC/LC duplex cords
3	326 12	Length: 1 m
3	326 13	Length: 2 m
3	326 14	Length: 3 m
		LC/LC duplex cords
3	326 15	Length: 1 m
3	326 16	Length: 2 m
3	326 17	Length: 3 m

Legrand cabling system LCS²
fibre optic
Patch cords





Pack	Cat.Nos	OM 2 (UPC) multimode optical cords (50/125 µm)
		Max. optical losses: 0.3 dB For 50/125 µm multimode installations, OM 2 type Orange sheaths
		ST/ST duplex cords
3	330 80	Length: 1 m
3	330 81	Length: 2 m
3	330 82	Length: 3 m
		SC/SC duplex cords
3	330 69	Length: 1 m
3	330 70	Length: 2 m
3	330 71	Length: 3 m
		ST/SC duplex cords
3	330 72	Length: 2 m
3	330 73	Length: 3 m
		LC/LC duplex cord
3	330 61	Length: 2 m
		SC/LC duplex cords
3	330 75	Length: 1 m
3	330 63	Length: 2 m
3	330 76	Length: 3 m
		LC/ST duplex cord
3	330 65	Length: 2 m

Legrand cabling system LCS²
fibre optic
zone distribution boxes


335 40


335 20 accessoire fibre optique

Pack	Cat.Nos	Zone distribution boxes
		For distribution of low current in a zone fitted with 1 to 12 RJ 45 sockets Centralise connections to guarantee flexibility and adaptability of the installation Installed on false ceiling or false floor Connect to the patch panel or the floor cabinet Conform to standards UTE C 15-900, NF C 15-100, NF C 20-730, EN 50-174.2, CEI 60950, ISO/IEC 11801 Ed. 2.0, EN 50173-2 and TIA/EIA 568 Colour code and wiring schemes T 568 A and T 568 B Cords and cables: ISO 11801 Ed.2.0, EN 50173-1, TIA/EIA 568 Technical characteristics: - polycarbonate PC hood - polypropylene PP base - RAL 7035 - hold connector units in place in the box: 100 N - Cables anchored on support using Colring cable ties
1	335 40	**Self-assembly zone distribution box** Used for fitting fibre optic accessory units

		Fibre optic accessory
1	335 20	Used for fitting fibre optic units (see p. 80) and the fibre coil in the zone distribution box



Customised fibre optics

customised solutions p. 84

Legrand cabling system LCS²
fibre optic
fibre sockets


786 16


786 17


786 18

Pack	Cat.Nos	Fibre sockets
		Fitted with duplex feedthrough 2 inlets 2 outlets Used for connecting 2 fibres (fitted with their connector) Supplied with protective caps Fitted with transparent marker holder 2 modules
1	786 16	**Socket with fibre optic feedthrough 2 x ST** Bayonet connection (STII compatible) ○ White
1	786 17	**Socket with fibre optic feedthrough 2 x SC** **Push-pull connection** ○ White
1	786 18	**Socket with fibre optic feedthrough 2 x LC** Push-pull connection ○ White

		Surface-mounted box for 6 connectors
1	369 00	**Surface-mounting box for 6 units** Holds six connectors, white 177.2 mm W x 29.5 mm H x 110 mm D
1	369 01	**Connector LC Duplex** 1-LC (2 fibres), beige adapter, phosphor-bronze, alignment sleeves 180° exit, flush, 1 unit
1	369 03	**Connector SC Duplex** 2-SC Simplex, Multimode, beige adapter, phosphor-bronze, alignment sleeves 180° exit, flush, 1 unit
1	369 02	**Blank module** 1 unit

Audio/ Video


0 335 96


0 335 97


0 335 98


0 335 99


0 517 23


0 517 24

Caractéristiques techniques **p. 875**

Emb.	Réf.	19" Patch Panels
		Allow distribution of the audio/video signal Equipped with female connectors and labeling. 19" panels 1U
1	335 96	Panel 19" XLR - 16 connectors
1	335 97	Panel 19" HDMI - 16 connectors
1	335 98	Panel 19" HD 15 - 12 connectors
1	335 99	Panel 19" SUB D9 - 12 connectors

		Cords
1	517 20	**HDMI Cord** Lenght 10 m. Allowa an HDMI to be connected to an audio/video terminal (plasma screen, DVD player, etc.) HDMI booster should be used if more than 10 m is required Cat. No 779 30
1	517 22	**HD 15 + 3,5 mm Jack** Lenght 2 m For connecting an HD 15 Video socket and a 3.5 mm audio jack to a terminal (PC, video projector)
1	517 23	**HD15** Length 2m Allows an HD 15 outlet to be connected to the video terminal (PC, video projector..)
1	517 24	**XLR** Lenght 10 m Allows an XLR outlet to be connected to the audio device (microphone, amplifier,...)
1	517 25	**SUB D9** Lenght 10 m Allows a serial RS232 connection (printer,..)

		HDMI booster
1	779 30	Enable an HDMI link to be extended. Consists of 2 female connectors, used in addition to an HDMI cord (for example cord Cat. No 517 20) Does not need an external power supply

		Cables
1	327 80	**HDMI cables** Lenght 20 m For connecting HDMI sockets at a distance of up to 10 m
1	327 81	**VGA cables** Lenght 20 m For full pin connection of HD 15 plugs

Legrand cabling system LCS²
Mosaic™ mechanisms
audio and video sockets

NEW


787 77


787 74


787 73


787 70

Pack	Cat.Nos		
		White	Alumin.
1	787 68	○	792 75
1	787 78	○	793 78

HDMI type A sockets

2-gang
Used to transmit high-definition digital audio/video streams between a source (HD-DVD drive, computer, etc) and a compatible receiver (plasma, LCD, etc)

Pre-terminated with 15 cm cord
1 module. v1.4

Pack	Cat.Nos		
		White	Alumin.
1	787 72	○	
1	787 57	○	792 57
1	787 74	○	
1	787 59	○	
1	787 77	○	

Female HD15 sockets

For streaming of analogue video between a source (computer) and compatible receiver (plasma, LCD, video projector, etc.)
VGA, XGA, VXGA definition according to the computer graphic card

Female HD15 sockets
1 module
Connection by welded connection block

2 modules
Connection by screw on connection block

Female HD15 socket + 3.5 mm Jack
2 modules
Connection by screw on connection block

Female HD15 socket + 5 preconnected BNC sockets RGBHV
VGA adaptor, female HD15 base to 5 female BNC sockets 75 Ω

Preconnected HD 15 socket
1 module; With 10cm cord

Pack	Cat.Nos		
		White	Alumin.
1	787 64	○	792 64
1	787 73	○	

Jack plugs 3.5 mm

3.5 mm jack connectors can be used to create audio/video links from a portable source

Female 3.5 mm jack plug 1 module
Connection by screw on connection block

Welded 3.5 mm jack socket 1 module
Connection by welded connection block

Pack	Cat.Nos	
		White
1	787 70	○

HD15 amplifier kit + 3.5 mm Jack

Used to connect audio/video terminals at a distance of more than 20 m
The video link is via an HD 15 connector (resolution up to UXGA)
The stereo audio link via a 3.5 mm jack

The kit comprises:
- 1 x 4-module transmitter equipped with an HD15 connector and a 3.5 mm jack
- 1 x 4-module receiver equipped with an HD15 connector and a 3.5 mm jack
- 1 x 4-module power supply to be connected to the mains and then to the receiver or transmitter

The link between the transmitter and receiver is via a network cable cat. 6 (Cat.Nos 327 56). Transmitter and receiver are supplied with an RJ 45 LCS² jack for tool-free connection

Pack	Cat.Nos		
		○	
1	787 71		
1	787 69		
1	787 52		
1	787 53		
1	787 54		792 54
1	787 58		
1	787 63		

Other audio and video sockets

DVI-I socket

Used to transmit High-Definition digital and analogue video streams between a source (computer) and a compatible receiver (plasma, LCD, video projector, etc)
DVI-I plug
2 modules

YUV socket
1 module. Provides the high definition analogue video link for a DVD, PC monitor, plasma screen, etc

Female 1 RCA socket
1 module. Provides the composite video link for any peripheral device such as a camera, DVD player, video recorder, etc

Female 2 RCA socket
1 module. Provides the video link for any peripheral device such as a camera, DVD player, video recorder, etc

Female 3 RCA socket
1 module. Provides the composite video and stereo audio link for any peripheral device such as a DVD player, camera, video recorder, videoconferencing, etc

Female BNC 75 socket
1-gang
Provides the composite video link for any peripheral device such as a DVD drive, camera, video recorder, etc

S-Video socket (4-pin mini-DIN)
1-gang
Provides the YC video link for any peripheral device such as a DVD drive, camera, video recorder, videoconferencing, etc

Legrand cabling system LCS²
adapters



695 80



539 49



327 60



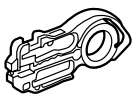
517 09

Pack	Cat.Nos	
		Weatherproof adaptors
	Grey/White	IP 55 - IK 07 Allow all functions to be adapted 2 Mosaic modules for IP 55 operation
10	695 80	Adapter with smoked flap
1	695 79	Adapter with smoked flap lockable by special tool
1	695 81	Adapter for RJ socket ensuring IP 44 waterproofness cable already connected
1	919 45	Locking tool (used for changing vandal-proof screws)
		Soliroc adapter Used for adapting all functions 2 Mosaic modules IK 10 - IP 55
1	778 80	Adapter with flap
1	778 81	Adapter without flap
		Hypra adapter
5	539 49	IP 55 adapter base

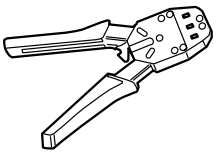
		RJ plugs for round cables
		Contacts with gold coating 1.2 µm
		RJ 11
50	517 01	4 contacts, width 9.65 mm
		RJ 12
50	517 02	6 contacts, width 9.65 mm
		RJ 45 cat. 5e
50	517 03	8 contacts, width 11.70 mm
50	517 04	9 contacts, width 11.70 mm
		RJ 45 sleeves
50	517 06	Black
50	517 07	White



		Stripping tool
		Slits the sheath and releases the conductors by rotation For twisted pair cables Does not damage the conductors
		Stripper
1	332 62	For twisted pair and fibre optic cable
		Cutting pliers
1	327 60	Cuts wires cleanly without damaging the copper

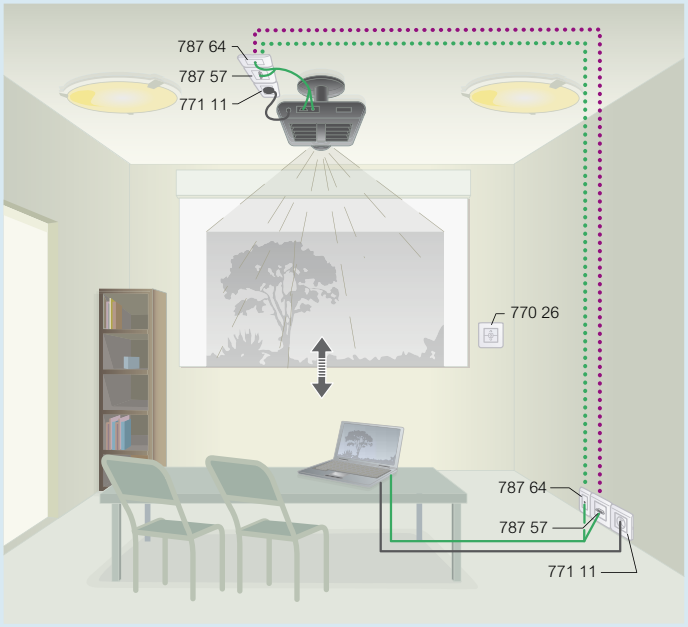


		Crimping tool for RJ 45 plugs
		Used for crimping plugs RJ 4/6/8/9 contacts Ratchet control of crimping mechanism. Able to cut and strip cables
1	517 09	Tool with 3 crimping points High resistance steel material



Legrand cabling system LCS2
audio and video sockets

■ Conference room

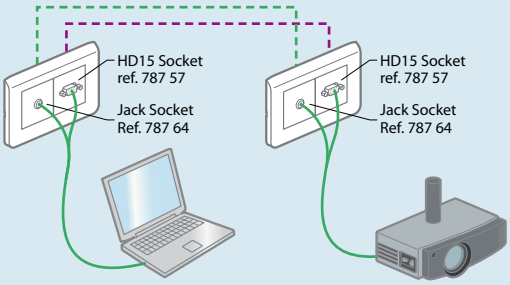


XGA cable (Cat.No 327 81)
HD15 cord + 3.5 mm jack (Cat.No 517 22)
Audio coaxial cable

Video streaming with HD15 and/or DVI sockets
Audio streaming with Jack 3.5 sockets

Standard installation

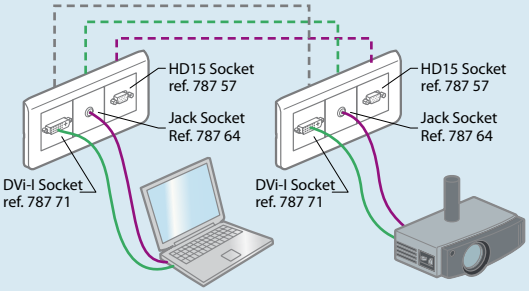
XGA analogue quality video 1280 x 720 pixels



For management of existing PCs

High definition installation

HD digital quality video 1920 x 1080 pixels



Add a DVI link cable to the standard installation for management of new PCs

Get top-level training at Innoval

Master new technologies and be the first among the most successful companies: get top-level training with a leader, Legrand. Take training courses that are extremely useful because their contents can be applied directly to the daily life of your trade.



Training courses for translating the telephony and IT needs of your customers in the commercial sector into comprehensive and scalable solutions, and wiring them in accordance with standards in force.



Training courses for learning the different methods for implementing an optical backbone and for carrying out optical connections and tests in accordance with standards in force.



Complete training courses:

- Copper installation: Fundamentals for your commercial sites
- Optical fibre: Implementing and testing an installation
- Copper: Implementing and testing an installation

Legrand cabling system LCS² racks 19" LCS²



464 06



464 25

Technical characteristics (p. 102)

Pack	Cat.Nos	LCS² 19" racks					
		Racks for high-density cabling (e.g. data centers, SANs, main distributors, etc.) Channel type 19" uprights for guiding and fixing cables, with U marking and tapped holes for fixing 19" equipment. Roofing for right-left cord routing that complies with the bending radiuses Receive metal feedthrough panels, power supply units and the LCS² 19" DIN rail kit fastened by screws Cat.No 464 23 (1 set of 50 supplied with the rack) Supplied with 24 straps with hook and loop type closure Aluminium structure to be assembled Racks joined using grids Cat.Nos 464 25/26/27 Black					
		Capacity	Height (mm)	Width (mm)	Depth (mm)	Permissible load (kg)	Depth of uprights (mm)
1	464 06	45 U	2185	604	521	675	267
1	464 07	45 U	2185	604	667	675	413

		Cord management grids
		To be mounted between 2 joined racks or on an isolated rack The grid creates a 63 mm space between 2 joined racks for running cables and cords to the front and rear Capacity: 200 cat. 6 cords Black
1	464 25	Grid with hinged closing latches 1965 mm x 153 mm x 156 mm

Legrand cabling system LCS² racks 19" LCS² (continued)



464 27

Cord management grids with door

Easily removable door that opens in both directions
To be mounted between 2 joined racks or on an isolated rack (Cat.No 464 26 only)
The grids create a space between 2 joined racks (63 mm for Cat.No 464 26, 165 mm for Cat.No 464 27) for running of cables and cords to the front and rear
Side cord channels every 1 U
Capacity: 200 cat. 6 cords for Cat.No 464 26, 580 cords for Cat.No 464 27
Supplied with 12 bend limiting clips and 4 coiling supports
Black

Pack	Cat.Nos	
1	464 26	1970 mm x 165 mm x 204 mm
1	464 27	1970 mm x 267 mm x 331 mm

Cable tray supports

To be fitted in the depth of the rack to support a high cable tray

1	464 18	For rack Cat.No 464 06
1	464 19	For rack Cat.No 464 07

Lower finishing plates

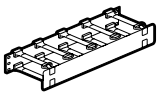
Metal plates provide the finishing of the lower part of the rack and protection against dust.
The sides of the plates can be folded easily for direct insertion of cables in the 19" upright channel.

1	464 15	For rack Cat.No 464 06
1	464 16	For rack Cat.No 464 07

19" cord management panels

1 axis closed panels with pivoting cover

1	465 70	1 U
1	465 71	2 U



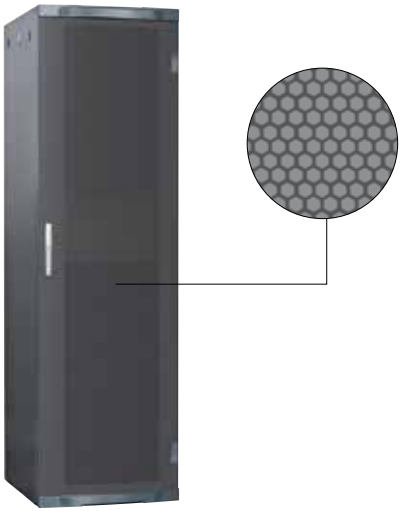
19" equipment screws

1	464 23	Set of 50 special screws for LCS² 19" racks and 25 earthing claws

Power supply units, DIN rail kit, 19" metal panels (p. 95)

Legrand cabling system LCS² 19" LCS² server enclosures

NEW



463 85

IP 20 - IK 08
Enclosures with front and rear metal microperforated door (80 %), reversibles, can be opened without key
Front door can be fitted with a DIN European cylinder (30 + 10 mm) with option of fitting a handle Cat.No 347 71/72 (see Legrand general catalogue)
Rear door can be fitted with a key barrel Cat.Nos 368 22/23/24/25/26/27 (see Legrand general catalogue)
Removable side panels
Levelling feet adjustable from the inside
Top cable entries in 19" cut-out format, capable of taking 19" plates with brushes, fans, etc.
Open bottom cable entries
Supplied with 4 x 19" uprights depth adjustment
Enclosures can be dismantled completely where access is difficult
Enclosures can be jointed with kit Cat.No 463 39
Supplied with earthing kit
Charcoal grey RAL 7016

Server enclosures

Pack	Cat.Nos	Capacity	Height (mm)	Width (mm)	Depth (mm)	Load capacity (kg)
1	463 85	42 U	2026	600	1000	630
1	463 86	42 U	2026	800	1000	630

Accessories

Set of 4 caster wheels

1	464 82	Set of 4 caster wheels for server cabinet Load on the 4 wheels: 500 kg

Shelves
Screw-fixing on 4 x 19" uprights

1	465 17	Fixed shelf depth 820 mm, max. load 100 kg For enclosure depth 1000 mm
1	465 18	Telescopic shelf depth 820 mm, max. load 100 kg For server enclosures

Cable trays
Fast screw-free assembly of cable guides (p. 99)

1	464 78	For width 600/800 mm Fitted between 2 supports Cat.No 464 79
1	464 79	For depth 1000 mm Pre-cut every 100 mm for height 500 to 200 mm

Earth strip

		Capacity (mm²)	Fixing spacing (mm)	Ø of holes (mm)
20	347 95	6	200	8,5

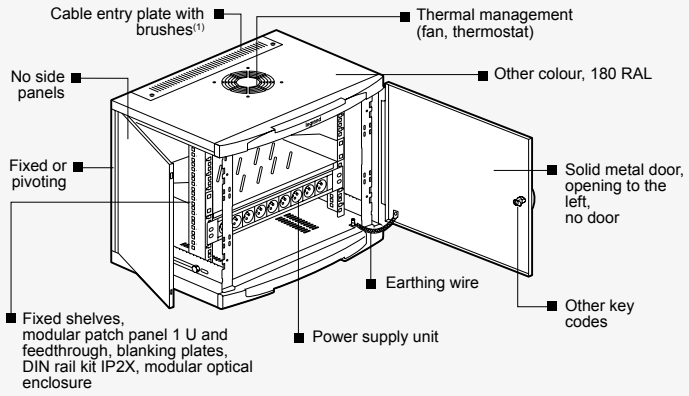
Bases, cable entry plates, thermal management, other accessories (p. 99)

19" equipment, cable management (p. 99)

customised
19" LCS2 cabinets and enclosures



19" LCS² CABINETS



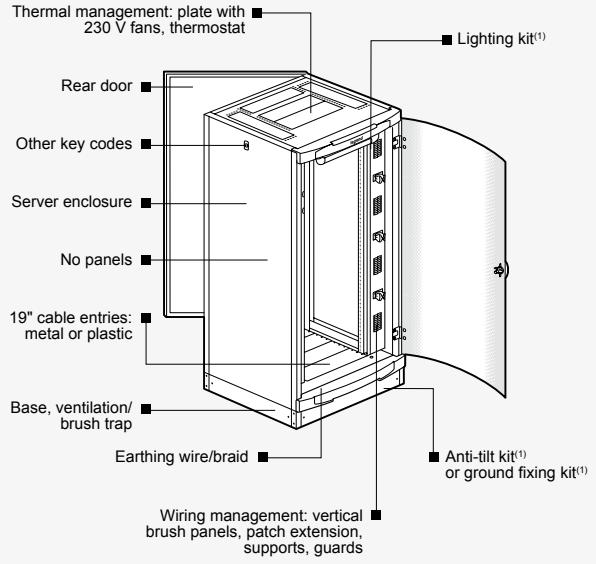
(1) Pivoting cabinets

19" LCS² ENCLOSURES

30 SIZES

Capacity	24 U	29 U	33 U	42 U	47 U
Width	600 or 800 mm				
Depth	600, 800 or 1,000 mm				

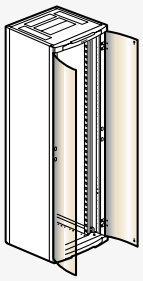
ENCLOSURE DEFINITION



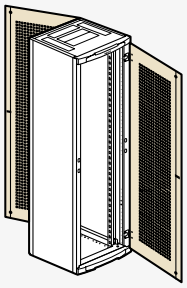
(1) Supplied ready for assembly

19" LCS² ENCLOSURES (CONTINUED)

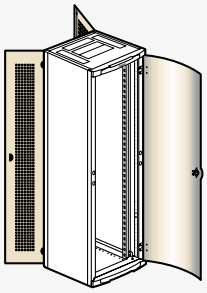
Option of solid or microperforated metal doors, screen-printed glass doors, double doors or no doors



Enclosure fitted with screen-printed glass double door at the front (42 U/47 U panels; width 800 mm)

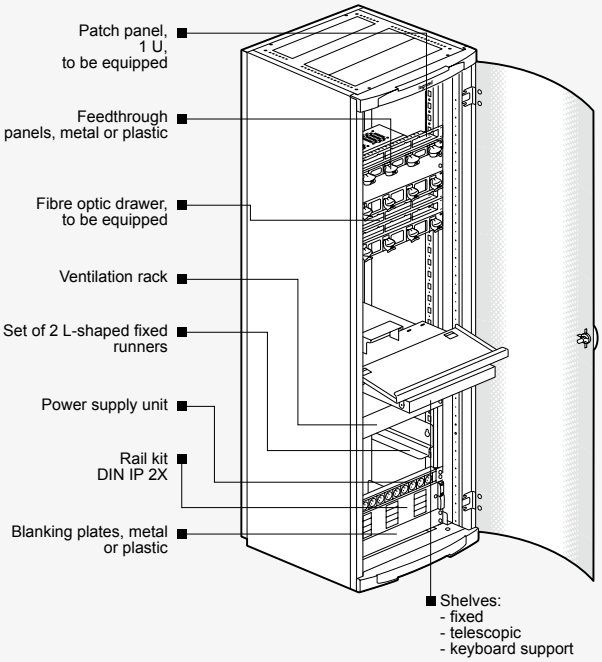


Enclosure fitted with microperforated metal doors at the front and rear (opening to the left)



Enclosure fitted with microperforated metal double rear door and screen-printed glass front door

19" EQUIPMENT ASSEMBLY



COLOURS



180 RAL colours available.
Optional touch-up brush in the selected RAL

OUR COMMITMENT

Quote within 24 hours

Request a quotation with the configurator under "Customised Solutions" at www.legrand.country

Legrand cabling system LCS²
19" LCS² enclosures
enclosures and cabling units

NEW

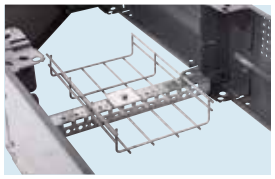
Legrand cabling system LCS²
enclosures plinthc



463 18



463 34 + 1 enclosure 463 18
+ 1 extension enclosure 463 30



Cross bar 476 93
with cable guide



464 61



464 63



Kit 464 52 consisting of 4 corner
blocks and solid traps at front/rear



464 66

Technical characteristics (p. 104)

Technical characteristics (p. 105)

IP 20 - IK 08 Enclosures with reversible curved front door made of screen-printed safety glass. Side and rear removable panels
Panels with automatic equipotential connection. Lock with 2433 A key for locking of the 4 sides. Levelling feet adjustable from the inside. Top and bottom cable entries, 19" cut-out format, receive 19" plates with brushes, fans, etc.
Supplied with 4 x 19" uprights with marking of the U and depth adjustment. Option of cable and patch cord management in cabling unit Cat.Nos 463 34/35.
Enclosures can be dismantled completely where access is difficult. Enclosures can be linked with kit Cat.Nos 463 37/38/39
Charcoal grey RAL 7016

19" LCS² enclosures

Single Front door, reversible

Pack	Cat.Nos	Capacity	Height (mm)	Width (mm)	Depth (mm)	Load capacity (kg)
1	463 00	24 U	1226	600	600	240
1	463 06	29 U	1448	600	600	290
1	463 12	33 U	1626	600	600	330
1	463 18	42 U	2026	600	600	420
1	463 19	42 U	2026	600	800	420
1	463 21	42 U	2026	800	600	420
1	463 22	42 U	2026	800	800	420
1	463 23	42 U	2026	800	1000	420
1	463 28	47 U	2248	800	800	470
1	463 29	47 U	2248	800	1000	470

Dual Front door

Pack	Cat.Nos	Capacity	Height (mm)	Width (mm)	Depth (mm)	Load capacity (kg)
1	463 41	42 U	2026	800	600	420
1	463 42	42 U	2026	800	800	420
1	463 43	42 U	2026	800	1000	420

19" LCS² extension enclosures

No side panels
Supplied with joining kit

Pack	Cat.Nos	Capacity	Height (mm)	Width (mm)	Depth (mm)	Load capacity (kg)
1	463 30	42 U	2026	600	600	420
1	463 33	42 U	2026	800	800	420

LCS² joining kits

For linking 2 LCS² enclosures
For enclosure depth (mm):

Pack	Cat.Nos	
1	463 37	600
1	463 38	800
1	463 39	1000

LCS² cabling units

Easier cable and patch cord management
Width 250 mm
Supplied with earthing kit
Charcoal grey RAL 7016
For enclosure depth (mm):

Pack	Cat.Nos	
1	463 34	600
1	463 35	800

Pack	Cat.Nos		
			Enclosure plinths
			Open on 4 sides Charcoal grey RAL 7016
			Plinth kits Consisting of 4 corner blocks and plain traps at front / rear Side traps to be ordered separately
	Height 100	Height 200	For enclosure width (mm):
1	464 50	464 52	600
1	464 51	464 53	800
			Sets of 2 plain side traps Traps height 100 mm Order 2 sets for a plinth height of 200 mm (Cat.Nos 464 52/53) For enclosure depth (mm):
1	464 54		600
1	464 56		800
1	464 58		1000
			Ventilated traps 1 trap height 100 mm For enclosure width/depth (mm):
1	464 60		600
1	464 61		800
			Traps with brush 1 trap height 100 mm For enclosure width/depth (mm):
1	464 62		600
1	464 63		800

Plinth for cabling units

Pack	Cat.Nos	
1	464 64	Assembled at front and/or rear between the bases of associated enclosures Trap height 100 mm. Double the number of traps for a height of 200 mm Charcoal grey RAL 7016

Cross bar

Fixed between 2 corner blocks of the plinth
For fixing cable trays crossing 2 associated cabinets
For enclosure depth (mm):

Pack	Cat.Nos	
1	476 93	600
1	476 94	800
1	476 95	1000

Linking interface

Protection allowing enclosure base and cable duct to be linked
Supplied with weatherproof brush
Reversible cover with cut-outs ensuring a high-quality finish
Height 200 mm
Charcoal grey RAL 7016

Pack	Cat.Nos	
1	464 66	For enclosure depth 600 mm

Legrand cabling system LCS²
cable entries and thermal management for enclosures

NEW

465 29



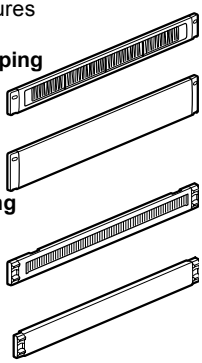
465 32



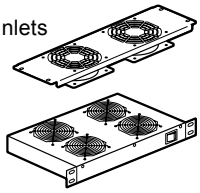
465 38

Technical characteristics (p. 105)

Pack	Cat.Nos	19" cable entry plates
		19" cable entry plates for enclosures Black RAL 9005
		Plastic with brushes, direct clipping
1	465 28	1 U
1	465 29	2 U
		Solid plastic, direct clipping
1	465 32	1 U
1	465 33	2 U
		Metal with brushes, quick-fixing
1	465 30	1 U
1	465 31	2 U
		Solid metal, quick-fixing
1	465 38	1 U
1	465 39	2 U
1	465 40	3 U

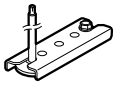


		Thermal management
		19" 3 U plates with fans Fixed to the enclosure 19" cable inlets or on 19" uprights
1	464 87	2 x 230 V**A** fans
1	464 88	3 x 230 V**A** fans
		1 U ventilation drawers For circulation of internal air Fit onto 2 x 19" uprights On/off switch
1	464 89	19" Ventilation shelf with 2 fans - depth 150 mm
1	464 90	19" Ventilation shelf with 4 fans - depth 300 mm
		Thermostat
1	348 48	Adjustable from 5 to 60 °C, 230 V**A**, 50/60 Hz NO contact (10 A) and NC contact (5 A) Fixed by magnet





Pack	Cat.Nos	Accessories
1	464 83	Set of 4 caster wheels for LCS² enclosure Maximum permissible load on the 4 casters: 380 kg
1	464 85	Lighting kit with switch Supplied with 230 V**A** - 8 W fluorescent tube Fixing 19" - 1 U
1	464 84	Anti-tilt kit Stabilises the enclosure when extracting heavy products
1	464 86	Floor fixing kit Enable an enclosure to be fixed permanently into the ground



		Self-adhesive document holders					
		Open - RAL 7035	Ext. dimensions		Int. dimensions		
			Height (mm)	Width (mm)	Height (mm)	Width (mm)	Depth (mm)
20	365 80		235	340	200	310	18
20	365 81		165	260	130	230	18
1	365 82	**Closed - RAL 7035** Rigid, plastic, IP 50 Int. dimensions: 324 x 120 x 18 mm					
10	**097 99**	**Transparent** Soft plastic, A4 - 305 x 220 mm					

Legrand cabling system LCS²
Alties ™ enclosures



473 62 + 472 72 + 482 20



473 63 equipped

Technical characteristics (please refer to Legrand catalogue 2010)

Pack	Cat.Nos	19" 42 U Altis enclosures						
		Protection against dust, water, knocks in demanding environments - IP55 - IK10 For loads up to 720 kg on 4 uprights Reversible door 4-point locking with double bar (barrels: please refer to Legrand catalogue 2010) Removable rear panel Cable entries at bottom 19" uprights and side panels to be ordered separately Compatible with 19" LCS² equipment (see p. 96) Cat.Nos 331 35 and 464 80 can be mounted in width 800 mm enclosures (see p. 99) Grey RAL 7035						
		Enclosures with framed glass door Coloured toughened glass	Dimensions			Window dim.		
			Height (mm)	Width (mm)	Depth (mm)	Height (mm)	Width (mm)	Weight (kg)
1	473 62		2000	600	600	1775	375	91.7
1	473 63		2000	800	600	1775	575	110.4
1	473 91		2000	600	800	1775	375	95.2
1	473 92		2000	800	800	1775	575	114.6
		Set of 2 side panels	For enclosures					
			Height (mm)	Depth (mm)				
1	472 72		2000	600				
1	472 75		2000	800				
		19" uprights						
1	482 20	Set of 2 42 U uprights (perforations 9.5 x 9.5 mm) Supplied with mounting lugs and screws Mounting in enclosures possible width 600 or 800 mm						
		Interior assembly kit - IP 55 for a 1000 kg/m³ load						
1	476 83	Set consisting of - 4 brackets - 2 joining feet - 1 gasket						
		M 14 lifting rings						
1	476 96	Set of 4 rings For a load of 1000 kg/m³						

NEW

Legrand cabling system LCS²
19" LCS² equipment
for enclosures and Altis


465 01


465 06


465 09

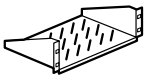

465 11

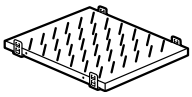

465 50


332 78

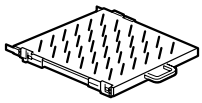

465 45

Pack	Cat.Nos	Fixed shelves
		Black RAL 9005 Quick fixing on 2 x 19" uprights Screw-free mounting (except server enclosures) Max. load 15 kg Height 2 U
1	465 00	Depth 115 mm
1	465 01	Depth 200 mm
1	465 02	Depth 360 mm
		Quick fixing on 4 x 19" uprights Fit exclusively on LCS² enclosures (except server enclosures) Max. load 50 kg
1	465 05	Depth 450 mm For enclosure depth 600 mm
1	465 06	Depth 650 mm For enclosure depth 800 mm
1	465 07	Depth 850 mm For enclosure depth 1000 mm
		Screw-fixing on 4 x 19" uprights Fits on all enclosures Max. load 100 kg
1	465 17	Depth 820 mm For enclosure depth 1000 mm

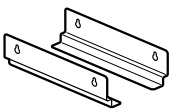




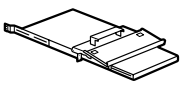
		Telescopic shelves
		Black RAL 9005
		Quick fixing on 4 x 19" uprights Fit exclusively on LCS² enclosures (except server enclosures) Max. load 50 kg
1	465 08	Depth 450 mm For enclosure depth 600 mm
1	465 09	Depth 650 mm For enclosure depth 800 mm
1	465 10	Depth 650 mm For enclosure depth 1000 mm
		Screw fixed on 4 x 19" uprights For server enclosures Max. load 100 kg
1	465 18	Depth 820 mm For enclosure depth 1000 mm



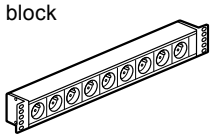
		Sliding rails
		Set of 2 fixed brackets Fit onto 4 x 19" uprights Max. load: 50 kg
1	465 11	For enclosure depth 600 mm
1	465 12	For enclosure depth 800 mm
1	465 13	For enclosure depth 1000 mm

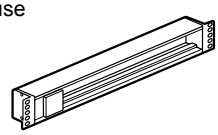


		Keyboard shelf
1	465 19	Screw-fixing on 4 x 19" uprights For enclosure depth ≥ 800 mm Max. load 50 kg Accommodates: - a computer screen - a keypad on the retractable support - a mouse on a sliding shelf with integrated mat Area for mouse or CD. Black RAL 9005

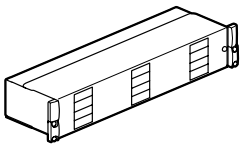


Pack	Cat.Nos	230 VA power supply units 19"
		Reversible front, rear and side mounting on 19" uprights Connection by 2.5 mm² terminal block Provide a 2 U space Supplied with screws
		Socket units
1	465 50(1)	9 x 2P+E black sockets
1	465 54(1)	6 x 2P+E black sockets
1	332 88(1)	6 x 2P+E white sockets with switch with indicator
1	332 37(1)	6 x 2P+E white sockets + 16 A double-pole circuit breaker
1	332 87(1)	6 x 2P+E tamperproof sockets for uninterruptible power supply (UPS)
1	465 60(1)	19" power supply unit 9 sockets 2P+E Schuko, black
1	465 62(1)	19" power supply unit 6 sockets 2P+E Schuko, black
		Voltage surge protector unit
1	332 78(1)	6 x white 2P+E sockets + surge protector and switch with indicator Maintains sockets energized after a mains overvoltage or lightning strike Interchangeable surge suppressor module Ensures continuity of service
		Replacement module for surge suppressor
1	775 41	For replacing the module after use
		Modular unit
1	332 79(1)	Takes 16 Mosaic modules





		DIN rail kit IP 2X
1	465 45(1)	For Lexic modular appliances Fits directly onto 19" uprights Capable of taking up to 7 x Mosaic 2P+E sockets at the rear Composed of: - metal box - 3 x DIN profile rails 4 modules - terminal block for protection conductors - a 2 U faceplate - 3 blanking plates - 9 cable entry glands Height 2 U Black RAL 9005 Compatible with EMC requirements





10" LCS² cabinets

see p. 101

(1)Can be mounted on 19" LCS² racks with screw Cat.No 464 23

Legrand cabling system LCS²
LCS² vertical power strips



For distributing power to the active equipment in the 19”cabinets

Pack	Cat.Nos	Vertical power strips LCS2
		Power strips have 16A circuit breaker on each circuit, protected by a cover to avoid accidental deactivation Mount directly in all 19” LCS2 enclosures and server enclosures. Mounting holes separation: 1700mm H 1720 x W 55 x D 51/88 mm(1) Supplied with screws. **Single phase** Power strip composed of 2 circuits of 12 sockets or 12 sockets C13 + 3 sockets C19 IEC 60320 Each circuit is identified by a color code
1	46580	24 sockets 2P+T
1	46581	24 sockets C13
1	46584	24 sockets C13 + 6 sockets C19 Includes 3m cord with plug 2P+T IEC 60309
		Three phase Power strip composed of 3 circuits of 8 sockets C13 + 1 socket C19 IEC 60320
1	46585	24 sockets C13 + 3 sockets C19 Includes 3m cord with plug 2P+N+T IEC 60309

(1): Without/with depth of circuit breaker.

Legrand cabling system LCS²
LCS² monitored power strips



Power strips equipped with an amper-meter with digital display
For distributing power to the active equipment in the 19”cabinets
Allows the measure of the power consumption in order to improve the management of the equipment:
Balancing circuits, visualize available capacity, avoid overload and risk of power cut

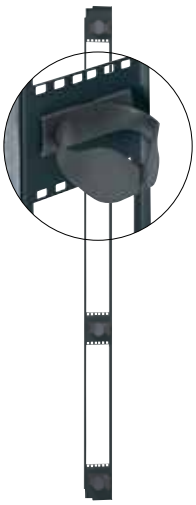
Pack	Cat.Nos	19” power strips
		Power strips have 16A circuit breaker on each circuit, protected by a cover to avoid accidental deactivation Mount in the 19” Varicon datacenter server cabinets with two support Cat.No 6446655/57 Supplied with screws **Single phase** Power strip composed of 2 circuits of 10 sockets C13 + 2 sockets C19 IEC 60320 Mounting holes separation: 1700mm – 1735mm H 1750 x W 62 x D 50/85 mm(1)
1	46593	20 sockets C13 + 4 sockets C19
1	46594	20 sockets C13 + 4 sockets C19 Includes 3m cord with plug 2P+T IEC 60309
1	46595	20 sockets C13 + 4 sockets C19 Includes 3m cord with plug C20 IEC 60320
		Three phase Power strip composed of 3 circuits of 5 sockets C13 + 1 socket C19 IEC 60320 Monitoring possible per individual circuit Mounting holes separation: 1738mm – 1772mm H 1787 x W 62 x D 50/85 mm(1)
1	46596	15 sockets C13 + 3 sockets C19 Includes 3m cord with plug 2P+N+T IEC 60309

(1): Without/with depth of circuit breaker.

Legrand cabling system LCS²
LCS² cable management

NEW


464 80


464 81


331 35


465 22


465 23


465 32


465 38

Pack	Cat.Nos	Enclosure cable and patch cord management
		Set of 3 cable management supports
		Fixing on structure Fast assembly of cable trays without screws
1	464 72	For enclosure width/depth 600 mm Fixing centre: 508 mm
1	464 73	For enclosure width/depth 800 mm Fixing centre: 708 mm
1	464 74	For enclosure depth 1000 mm Fixing centre: 908 mm
		Flat cable trays Fast mounting on the supports without screws. 250 mm width
1	464 76	For 33 U enclosures
1	464 77	For 42 U enclosures
		Cable trays For ducting cables can be fixed in plinth with Cat.Nos 476 93/94/95 on top of server cabinet with Cat.Nos 464 78/79
1	464 69	3000 x 200 x 54 mm
1	464 70	**3000 x 400 x 54 mm**
		Cable management grille For 42 U enclosures, width 800 mm Fits onto 19" uprights
1	331 35(1)	Guard with articulated bolts Dimensions: 1560 x 100 x 150 mm
		Vertical cable manager For 42 U enclosures, width 800 mm Fits onto 19" uprights
1	464 80(1)	Set of 2 vertical panels with brush feedthrough Supplied with 10 cable management rings Cat.No 465 42, 3 cable ties Cat.No 331 94, 3 cable ties Cat.No 331 95 and 3 cable ties Cat.No 331 96 Black RAL 9005
		Vertical extension For 42 U enclosures, width 800 mm Fits onto 19" uprights
1	464 81	Set of 2 vertical trim plates to increase the capacity with 12 U For installing 19" panels, DIN rail kit, power supply units, etc. Supplied with 8 cable management rings 2 U Cat.No 465 42 Black RAL 9005

Self-locking cable ties and tightening indicator (see Legrand catalogue)

Pack	Cat.Nos	19" management panels
		For organisation and circulation of patch cords Black RAL 9005
		Metal, 2 axes, quick-fixing Horizontal and front-to-back with round shaded plastic rings for optimum protection of patch cords (respecting the bending radius)
1	465 22(1)	1 U
1	465 23(1)	2 U
		Plastic with brushes, direct clipping
1	465 28(2)	1 U
1	465 29(2)	2 U
		Metal with brushes, quick-fixing
1	465 30(1)	1 U
1	465 31(1)	2 U
		19" blanking plates
		Black RAL 9005
		Solid plastic, direct clipping
1	465 32(2)	1 U
1	465 33(2)	2 U
		Solid metal, quick-fixing
1	465 38(1)	1 U
1	465 39(1)	2 U
1	465 40(1)	3 U
		Cable management rings
		Direct clipping front structural uprights of fixed cabinets 9 U to 21 U (Cat.No 465 41 only) and central upright of cabinets depth 580 mm
4	465 41	1 U, plastic. Useable section 1890 mm²
4	465 42	2 U, plastic. Useable section 4.070 mm²
		Fixing accessories
		Set of 50 cage nuts, 50 plastic washers and 50 x M6 screws
1	364 53	With 8.5 mm cage nuts
1	364 54	With 9.5 mm cage nuts



Customised 19" LCS² enclosures

Please consult Legrand

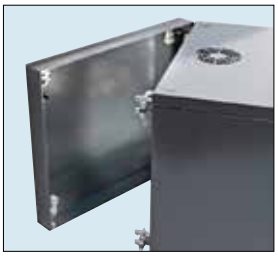
(1)Can be mounted on 19" LCS² racks with screw Cat.No 464 23
(2)Can not be mounted on 19" LCS² racks

Legrand cabling system LCS²
19" LCS² cabinets and accessories

NEW


462 01


462 11


Pivoting cabinet 462 11


465 01

Technical characteristics (p. 108)

IP 20 - IK 08
With reversible curved print screen glass safety door
Pivoting side panels, tool-free removal from inside
Lock closure with key 2433 A
Supplied with 2 x 19" uprights with depth adjusting aid
Supplied with earthing kit
Top and bottom grilles for natural ventilation, capable of taking a fan in the high part
Charcoal grey RAL 7016

Wall-mounting 19" LCS² cabinets

Easier cable management: ability to fix cable guide connecting rings Cat.Nos 465 41/42 (p. 99) and cable ties (see Legrand catalogue)
DLP format cable entries at the top and bottom, bendable, with ability to attach cables using cable ties
Rear pre-cut cable entries

Cabinet depth 400 mm

Pack	Cat.Nos	Capacity	Width (mm)	Height (mm)	Load capacity (kg)
1	462 00	6 U	600	350	18
1	462 01	9 U	600	500	27
1	462 02	12 U	600	600	36
1	462 03	16 U	600	800	48

Cabinet depth 580 mm

1	462 06	9 U	600	500	27
1	462 07	12 U	600	600	36
1	462 08	16 U	600	800	48
1	462 09	21 U	600	1000	63

Pivoting 19" LCS² cabinets

Cabinets composed of:
- base (wall-fixing)
- pivoting body allowing free access to the rear of the cabinet to facilitate installation and maintenance
Reversible pivoting direction
Full cable entry plate at top and bottom, a brush plate can be fitted Cat.No 462 55

Cabinet depth 600 mm

Pack	Cat.Nos	Capacity	Width (mm)	Height (mm)	Load capacity (kg)
1	462 11	9 U	600	500	27
1	462 12	12 U	600	600	36
1	462 13	16 U	600	800	48
1	462 14	21 U	600	1000	63

Fixed shelves

Quick fixing without screws
Max. load 15 kg
Black RAL 9005

Quick fixing on 2 x 19" uprights

Pack	Cat.Nos	
1	465 00	Depth 115 mm For cabinets depth 400, 580 and 600 mm
1	465 01	Depth 200 mm For cabinets depth 400, 580 and 600 mm
1	465 02	Depth 360 mm For cabinets depth 580 and 600 mm

Thermal management

Fan
2.5 m power supply cable

1	462 60	230 V**A** fan
1	348 48	**Thermostat** Adjustable from 5 to 60 °C, 230 V**A**, 50/60 Hz NO contact (10A) and NC contact (5 A) Fixed by magnet

Cable entry

1	**462 55**	**Cable entry plate with brush** **For pivoting cabinets**

Accessories

1	462 64	Set of 4 caster wheels for assembly on pivoting cabinets Total load permissible on the 4 casters: 120 kg

19" LCS² power supply units (see p. 98)



19" management panels
see p. 99

NEW

Legrand Datacenter solutions
Varicon-L Custom made solutions

19” DATACENTER SERVER CABINETS VARICON-L

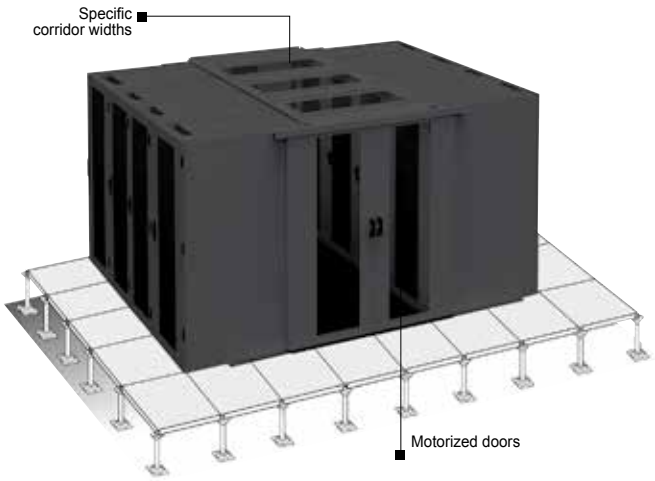
Jusqu'à 384 combinaisons possibles pour répondre à tous vos besoins de configuration

Height	Width	Depth	Front door	Rear door	Side panels
41 U	600 mm	1000 mm	Single, perforated	Single, perforated	With
46 U	800 mm	1200 mm	Single, glass	Single, glass	Without
			Dual, perforated	Single, full metal	
			Dual, glass	Dual, perforated	
				Dual, glass	
				Dual, full metal	

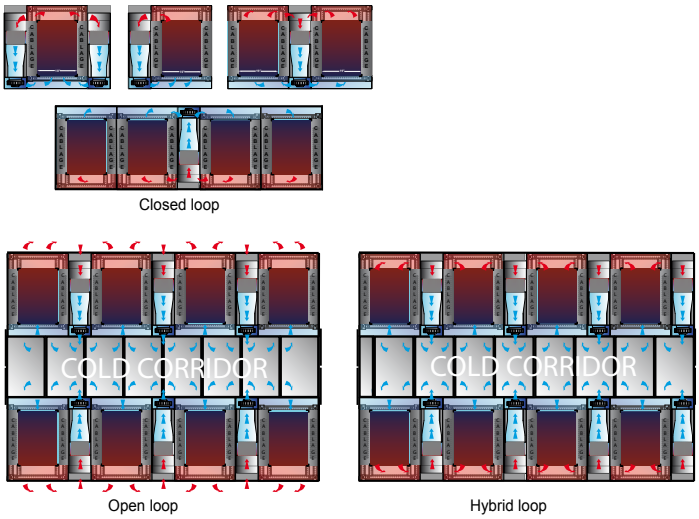


Energy efficiency through adapted corridor and cabinet type:

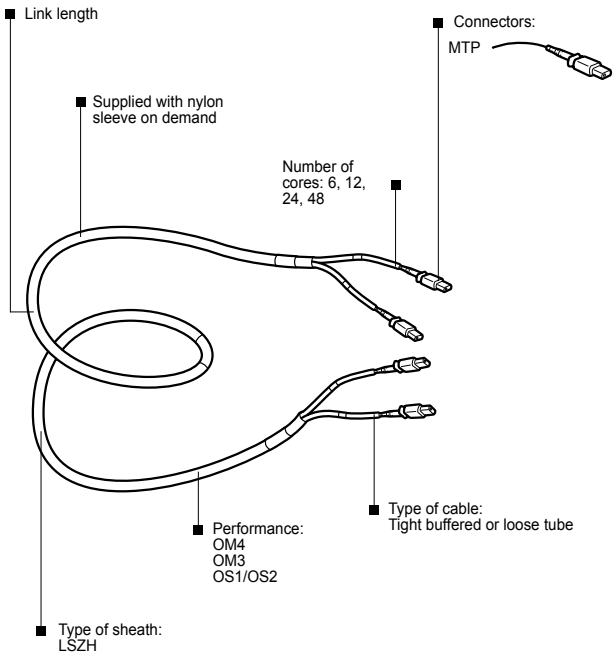
Cold corridor (width 1200mm) on raised floor



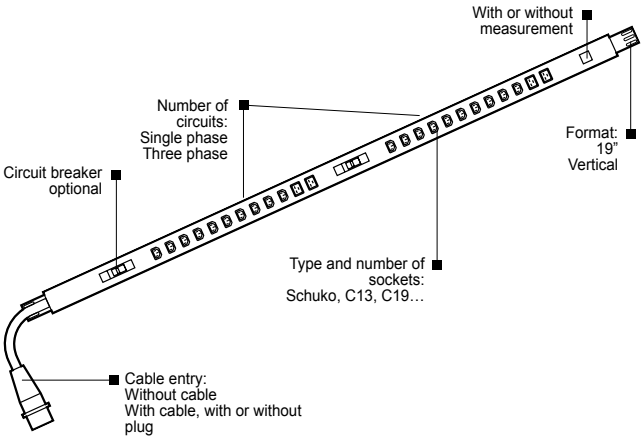
Options for the air conditioning unit in the row



PRE TERMINATED FIBRE

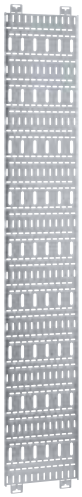


POWER DISTRIBUTION STRIP



Legrand Datacenter solutions
Varicon-L Cabinets and equipment


6 466 21


6 466 61


6 466 81


6 466 68


6 466 69

19” Server cabinets Varicon-L

Server cabinets IK08
Front and rear doors micro-perforated 80%, reversible with 2point lock. Include key lock 2433A.
Removable side panels
Top cable entries: one with brush and two blank plates
Bottom cable entry: open
Adjustable 19” rails front and back with “U” markings
Leveling feet adjustable from inside
Includes a grounding kit.

Cabinets

Pack	Cat.Nos	Capacity	Height (mm)	Width (mm)	Depth (mm)	Load (kg)
1	6 466 10	41 U	2000	600	1000	1000
1	6 466 12	41 U	2000	600	1200	1000
1	6 466 13	41 U	2000	800	1000	1000
1	6 466 15	41 U	2000	800	1200	1000
1	6 466 16	46 U	2200	600	1000	1000
1	6 466 18	46 U	2200	600	1200	1000
1	6 466 19	46 U	2200	800	1000	1000
1	6 466 21	46 U	2200	800	1200	1000

Extension cabinets
Without side panels, supplied with joining kit

Pack	Cat.Nos	Capacity	Height (mm)	Width (mm)	Depth (mm)	Load (kg)
1	6 466 30	41 U	2000	600	1000	1000
1	6 466 32	41 U	2000	600	1200	1000
1	6 466 33	41 U	2000	800	1000	1000
1	6 466 35	41 U	2000	800	1200	1000
1	6 466 36	46 U	2200	600	1000	1000
1	6 466 38	46 U	2200	600	1200	1000
1	6 466 39	46 U	2200	800	1000	1000
1	6 466 41	46 U	2200	800	1200	1000

Patch cord management

Vertical management
Mount on the 19” rails for copper or fibre patch cord management.

Pack	Cat.Nos	
1	6 466 65	Vertical patch cord manager 41 U
1	6 466 66	Vertical patch cord manager 46 U

Patch cord management rings
Mount on the 19” rails.

Pack	Cat.Nos	
1	6 466 68	Ring for vertical management, 35x65mm
1	6 466 69	Ring for horizontal management, 30x85mm

Cable Management

Cable trays
Support the cables inside the cabinet
Rear or side mounting directly on the cabinet structure.
Width 300mm. Supplied with screws

Pack	Cat.Nos.	
1	6 466 61	Cable tray for 41 U cabinet
1	6 466 62	Cable tray for 46 U cabinet

Brush cable entry
To mount on top cable entry. With set of brushes

Pack	Cat.Nos.	
1	6 466 85	To mount on top cable entry. With set of brushes

Equipment support

Mounting depth post
Mounting post to support equipment in the depth of the cabinet.
Should be used to support heavy equipment that only has front 19” mounting

Pack	Cat.Nos.	
1	6 466 55	Rail for cabinet depth 1000mm
1	6 466 57	Rail for cabinet depth 1200mm

Universal mounting brackets
To fix equipment. Multiple mounting holes. Mounts on the 19” rails as well as frame. Supplied with screws

Pack	Cat.Nos.	
1	6 466 59	Set of 4 universal mounting brackets

Airflow management

Vertical side skirts
For cabinet width 800mm. Mount on the front 19” rails and prevent the cold air from leaking between the 19” rails and the side panels.
Each skirt has 3 cutouts of 19” 2U each to be equipped with either blanking plates or brush plates.
Black RAL 9011

Pack	Cat.Nos.	
1	6 466 81	Set of 2 side skirts for 41 U cabinet
1	6 466 82	Set of 2 side skirts for 46 U cabinet

Side skirts panels
For cabinet width 800mm. Used in combination with the side skirts. Mount perpendicular to the side skirts to prevent air leakage.
Depth 270mm. Black RAL 9011

Pack	Cat.Nos.	
1	6 466 88	Set of 2 side skirt panels for 41 U cabinet
1	6 466 89	Set of 2 side skirt panels for 46 U cabinet

19” Blanking plates
Solid plastic, direct clipping

Pack	Cat.Nos.	
1	465 32	1 U
1	465 33	2 U

19” horizontal management panels
Plastic with brushes, direct clipping

Pack	Cat.Nos.	
1	465 28	1 U
1	465 29	2 U

Legrand Datacenter solutions
Varicon-L Cold corridor and cooling system



6 466 12 + 6 467 10 + 6 467 28 + 6 467 20 + 6 467 22 + 6 467 24



6 467 40

Pack	Cat.Nos.	Cold contained corridor
		Solution to contain the cold air in the cold corridor between 2 rows of cabinets. Reduces the amount of air necessary to cool the servers. This reduces cooling power needed and improves energy efficiency.
		Dual manual doors To close a 1200mm width corridor. Sliding doors with security glass panel Manual opening and closing of the doors Supplied with all necessary accessories for mounting One double door needed on each side of the corridor. Black RAL 9011
1	6 467 10	For corridor composed of 41u cabinets
1	6 467 12	For corridor composed of 46u cabinets
		Roof panels To cover a corridor of width 1200mm. The panels mount on the rail Cat.No 646728 Panels of width 600mm composed of metal frame and security glass Panels of width 100mm and 200mm full metal Use assortment accordin to lengh of the corridor. Always use 100mm or 200mm panels at the ends and between each 600mm glass panel Black RAL 9011
1	6 467 20	Panel width 600mm
1	6 467 22	Panel width 200mm
1	6 467 24	Panel width 100mm
		Roof rail Layed top of the cabinets and allows to move the cabinets without dismantling the corridor roof
1	6 467 28	Rail length 2m

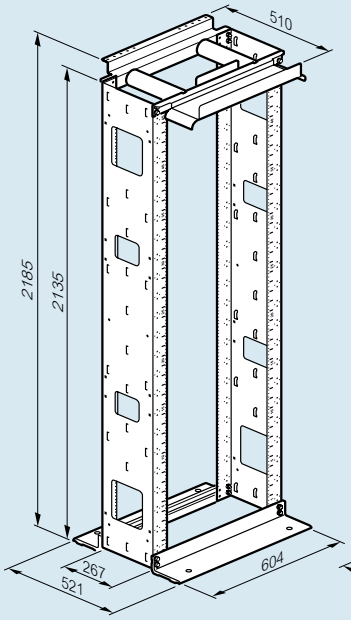
Pack	Cat.Nos.	Air conditioning unit
		Integrates into the cabinet row for more precise cooling closer to the servers.
		Improves hot spot management
		Unit to be connected to chilled water supply
		Cooling capacity 24kW
		Controller to manage incoming water valve and fan speed of the 6 fans in 3 zones
		Front control screen
		Front and rear panels micro perforated 80% for open loop method: hot air sucked from rear of unit and cold air blown to front in the cold corridor
		Controller and fan maintenance without interruption of the unit
		To be associated with server cabinets Varicon-L depth 1200mm
		Heigth 2000mm, width 300mm, depth 1200mm
		Black RAL 9011
1	6 467 40	Cooling unit 24kW

Legrand cabling system LCS²
19" LCS² racks

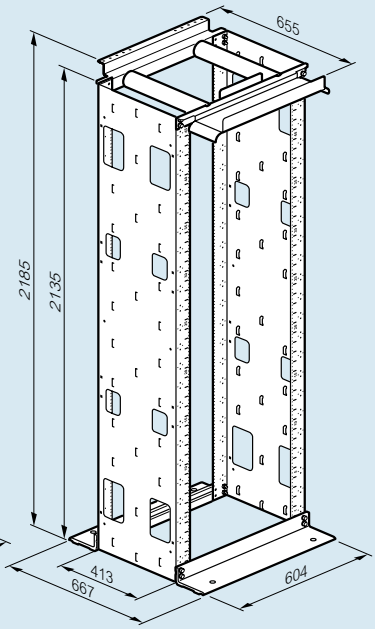
19" LCS² Racks

Permissible load: 15 kg/U

464 06

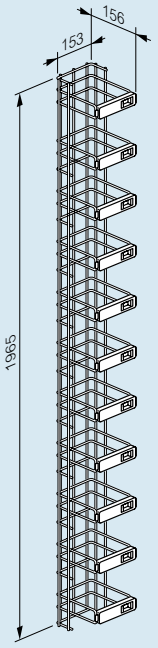


464 07

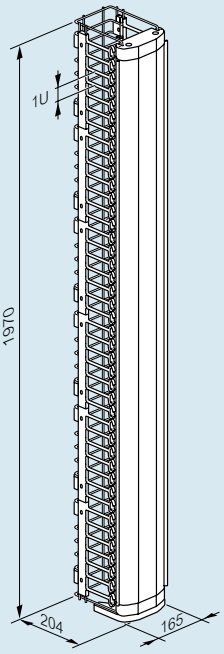


Cord management grids

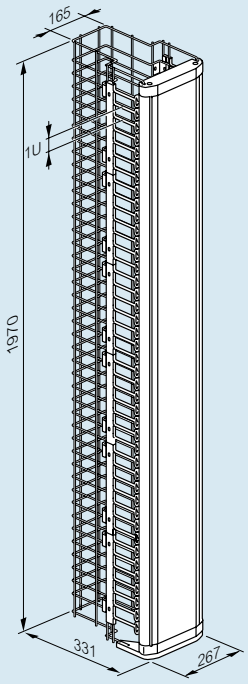
464 25



464 26

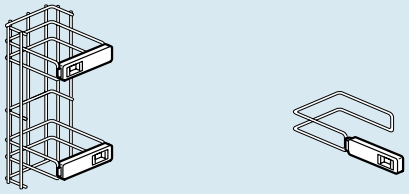


464 27



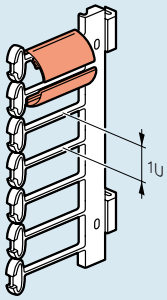
464 25

Swing latch replacement installation
Installation can be either right or left hand swing out

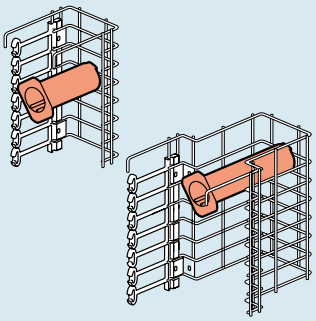


464 26/27

Bend limiting clips

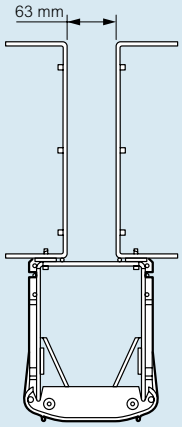


Cord coiling support

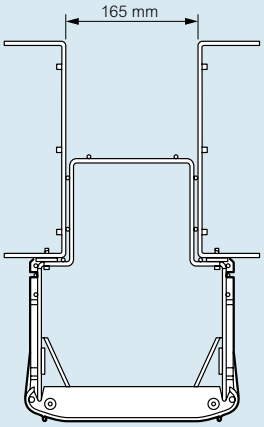


Joining racks with grid

464 25/26

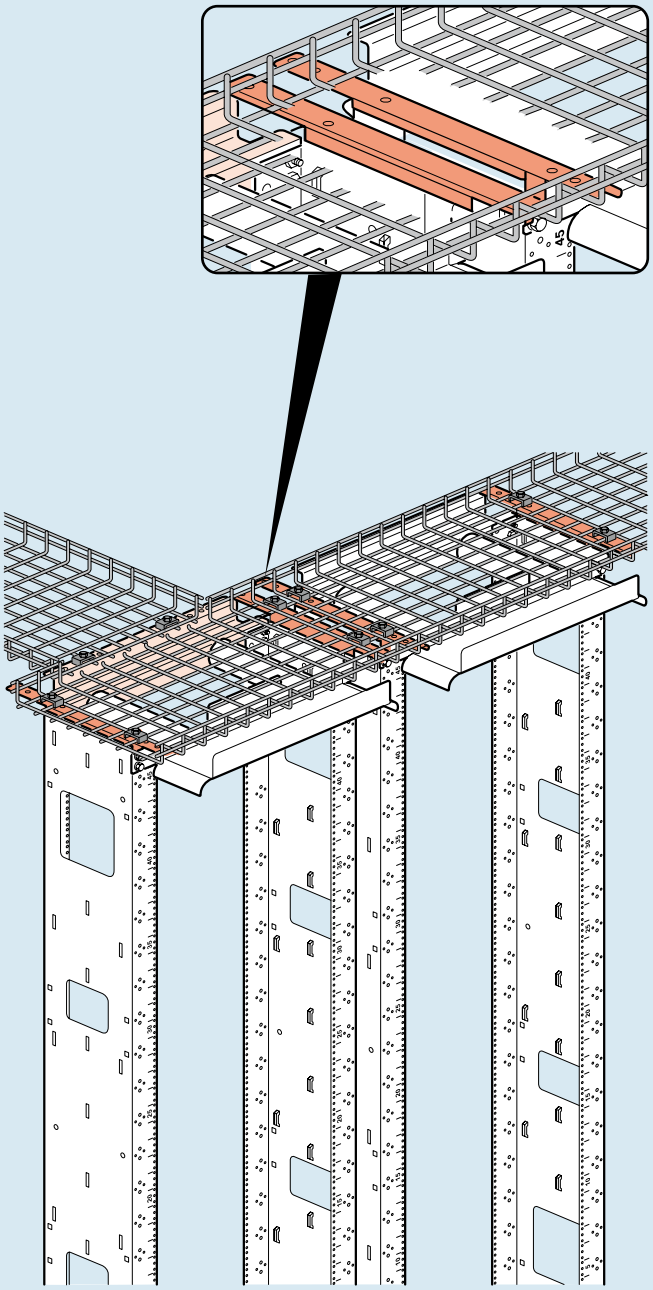


464 27



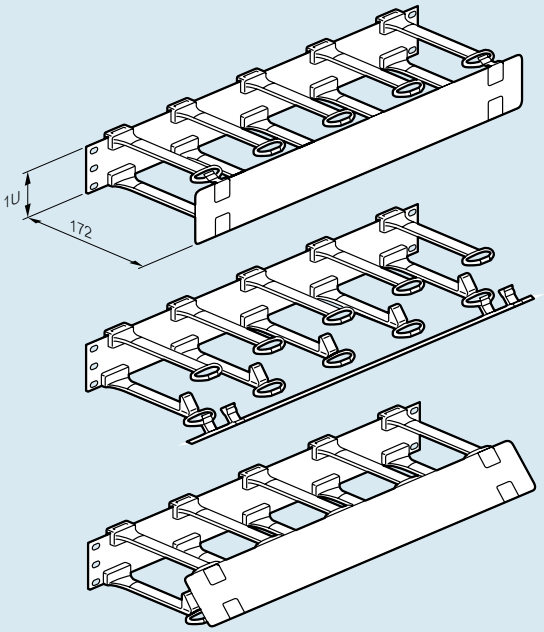
Cable tray support

464 18/19

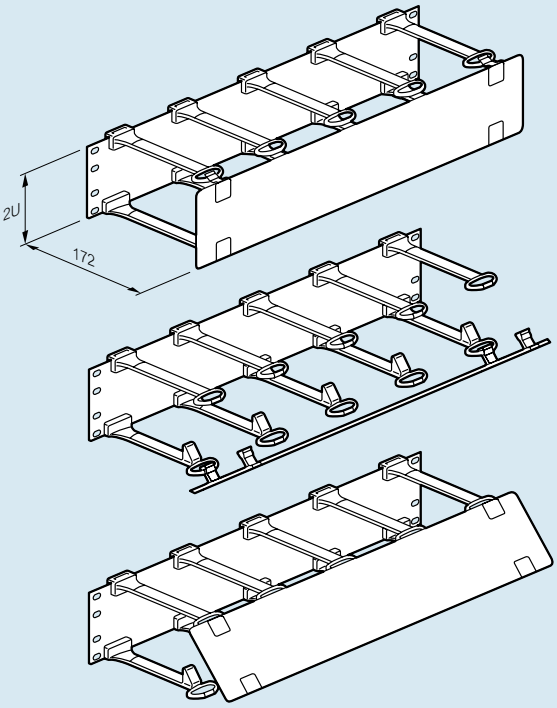


19" cord management panels

465 70



465 71



Legrand cabling system LCS²
19" LCS² enclosures and server enclosures

General characteristics

Metallic extendable enclosures. RAL 7016 textured polyester coating providing excellent resistance to corrosion and scratching
Front glass safety door, front and rear microperforated metal doors for server enclosures
Protection index (weatherproof) against solid objects and liquids: IP 20. Protection index against mechanical shocks: IK 08
Perforations in 19" uprights: 9.5 x 9.5 mm. Permissible load: 10 kg/U (or 420 kg for a 42 U enclosure), 15 kg/U for server enclosure

Compliance with standards

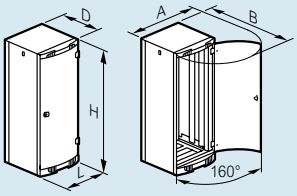
LCS² enclosures comply with the following standards:

IEC 60529 EN 60529	(NF C 20-010) Degrees of protection provided by enclosures (IP code)
IEC 62262 EN 62262	(NF EN 50102, NF C 20-015) Degree of protection provided by enclosures of electrical equipment against external mechanical impacts (IK code)
IEC 60950-1 EN 60950-1 C 77-210-1	Safety of data processing equipment
EIA-310-D	Cabinets, enclosures, panels and associated equipment (ANSI/EIA/310-D-1992)
IEC 60297-1 and 2 DIN 41414-7	(NF C 20-150, NF C 20-151) Sizes of mechanical structures of the 482.6 mm (19 in) series
IEC 60917-1 EN 60917-1	Modular order for the development of mechanical structures for electronic infrastructures
IEC 60917-2-1 EN 60917-2-1	Modular order for the development of mechanical structures for electronic infrastructures Coordination dimensions for infrastructure interfaces in widths of 25 mm (enclosure and frame dimensions)

LCS² enclosures can be integrated into installations complying with the following standards:

EN 50173-1	Information technology - Generic cabling systems
EN 50174-1 & 2 C 90-480-1 & 2	Information technology - Cabling installation
ISO IEC 11801	Information technology - Generic cabling for customer premises
NF C 15-100 Part 4-41	Low voltage electrical installations - Recommendations

Overall dimensions (mm)

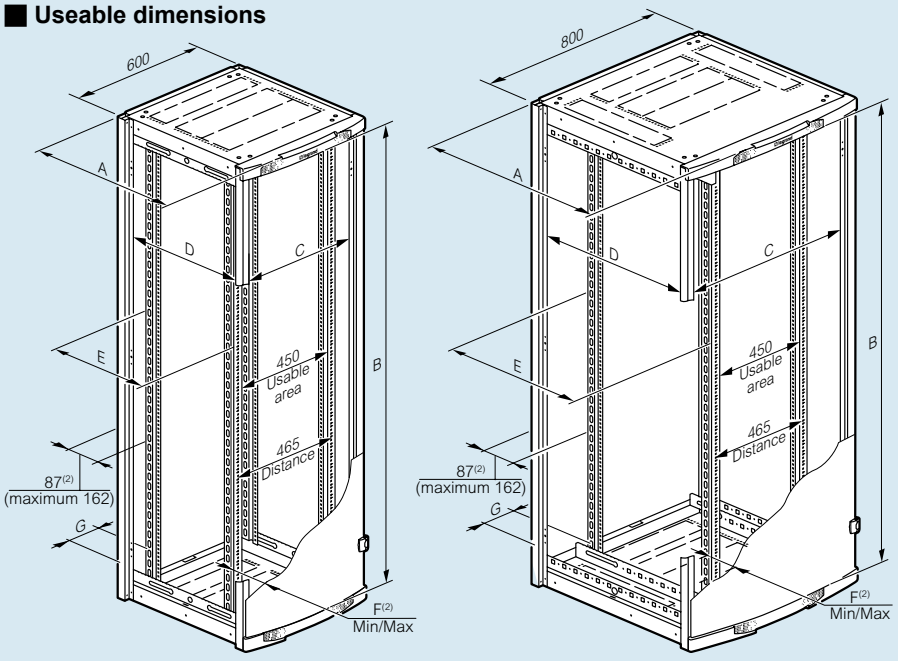


Cat.Nos	Capacity	H(1)	L	D	A	B
463 00	24 U	1226	610	659	1138	1208
463 06	29 U	1448				
463 12	33 U	1626				
463 18/30	42 U	2026		859		1408
463 19						
463 21			810	657	1525	
463 22/33				857		1608
463 23				1057		1808
463 28	47 U	2248		857		1608
463 29				1057		1808

Server enclosures

Cat.Nos	Capacity	H(1)	L	D	A	B
463 85	42 U	2026	610	1092	1138	1608
463 86	42 U	2026	810	1092	1525	1808

Useable dimensions



Cat.Nos	Capacity	A	Usable area B	Usable area C	Usable area D	E	F(2) Min.	F(2) Max.	G
463 00	24 U	659	1086	490	490	425	118	193	41
463 06	29 U		1308						
463 12	33 U		1486						
463 18/30	42 U	859	1886	690	690	625	122	197	141
463 19									
463 21		657			490	425			
463 22/33		857			690	625			
463 23		1057			890	825			
463 28	47 U	857	2108		690	625			
463 29		1057			890	825			

Server enclosures

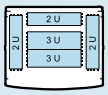
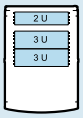
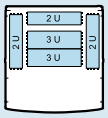
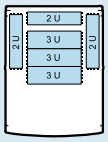
Cat.Nos	Capacity	A	Usable area B	Usable area C	Usable area D	E	F(2) Min.	F(2) Max.	G
463 85	42 U	1092	1886	490	890	825	122	197	41
463 86	42 U	1092	1886	690	890	825	122	197	141

(1) Without adjustment levelling feet (+15 to 45 mm with feet)
(2) Continuous adjustment with adjustments in widths of 12.5 mm

Legrand cabling system LCS²
19" LCS² enclosures, server enclosures and accessories

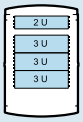
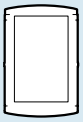
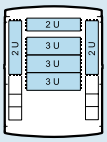
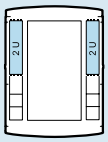
LCS² cable entries (mm)

Pre-cut at the top and bottom in 19" format (useable area 451 mm)

	Width 600	Width 800
Depth 600		
Depth 800		
Depth 1000	-	

LCS² server enclosure cable entries (mm)

Pre-cut at the top in 19" format (useable area 451 mm)
Bottom central cut (805 x 450 mm)

	Top	Bottom
Width 600		
Width 800		

Weight enclosures (kg)

Weights shown correspond to net weight (without packaging)

Cat.Nos	Weight Enclosure	Weight Extension enclosure
463 00	69	-
463 06	77	-
463 12	84	-
463 18/30 (ext)	99	72
463 19	110	-
463 21	114	-
463 22/33 (ext)	127	90
463 23	151	-
463 28	138	-
463 29	163	-

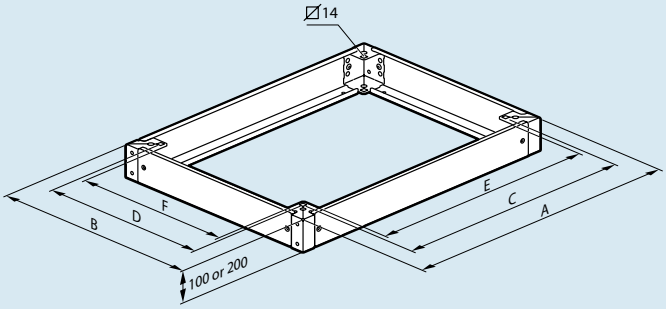
Weight server enclosures (kg)

Weights shown correspond to net weight (without packaging)

Cat.Nos	Weight Enclosure
463 85	155
463 86	166

Enclosure bases (mm)

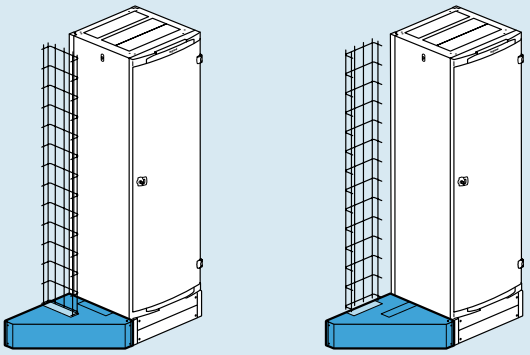
Base kit + side traps

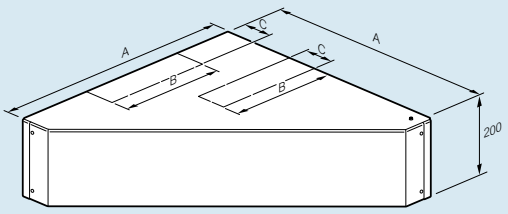


Enclosure dim. Width x Depth	Overall		Mounting		Usable area	
	A	B	C	D	E	F
600 x 600	599	599	478	478	449	449
600 x 800	599	799	478	678	449	649
800 x 600	799	599	678	478	649	449
800 x 800	799	799	678	678	649	649
600 x 1000	599	999	478	878	449	849
800 x 1000	799	999	678	878	649	849

Linking interface (mm)

Left or right assembly of an enclosure fitted with a 200 mm high base
Reversible interface cover

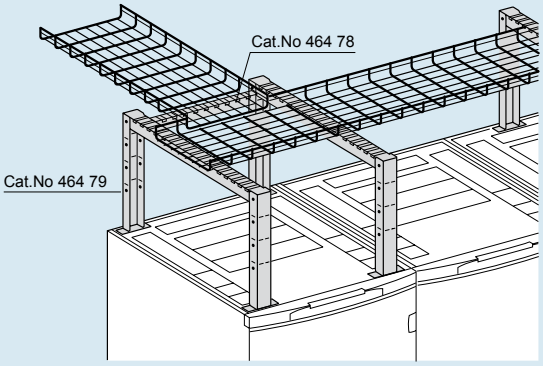


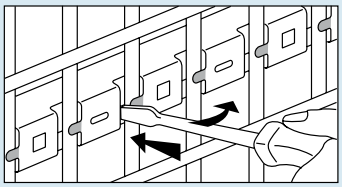


Enclosure dim. Depth	A	B	C
600	595	435	120

Legrand cabling system LCS²
enclosure accessories 19" LCS² (continued)

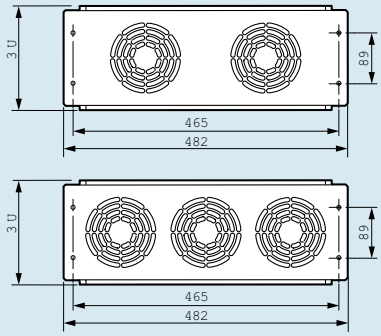
Supports for cable guides on server enclosures





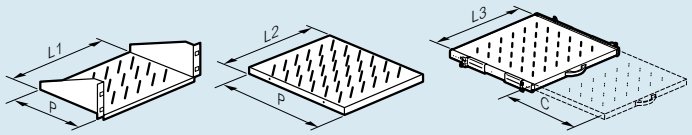
Cable guides can be installed quickly on the supports Cat.Nos 464 72/73/74/78/79

19" plates with fans (mm)



Cat.Nos	Ventilation zone		
	Number of fans	Section (cm²)	Output (m³/h)
464 87	2	114	180
464 88	3	172	270

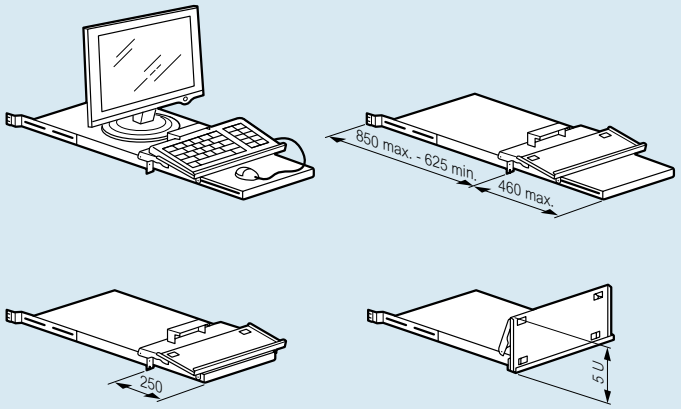
Shelves (mm)



Cat.Nos	D	Useable width			C
		L1	L2	L3	
465 00	115	430			
462 23(1)	120	216			
465 01	200	430			
465 02	360	430			
465 05	450		435		
465 06	650		435		
465 07	850		435		
465 08	450			425	320
465 09	650			425	420
465 10	650			425	420
465 17	820		425		
465 18	820			380	650

(1) Fixing centre 236.5 mm

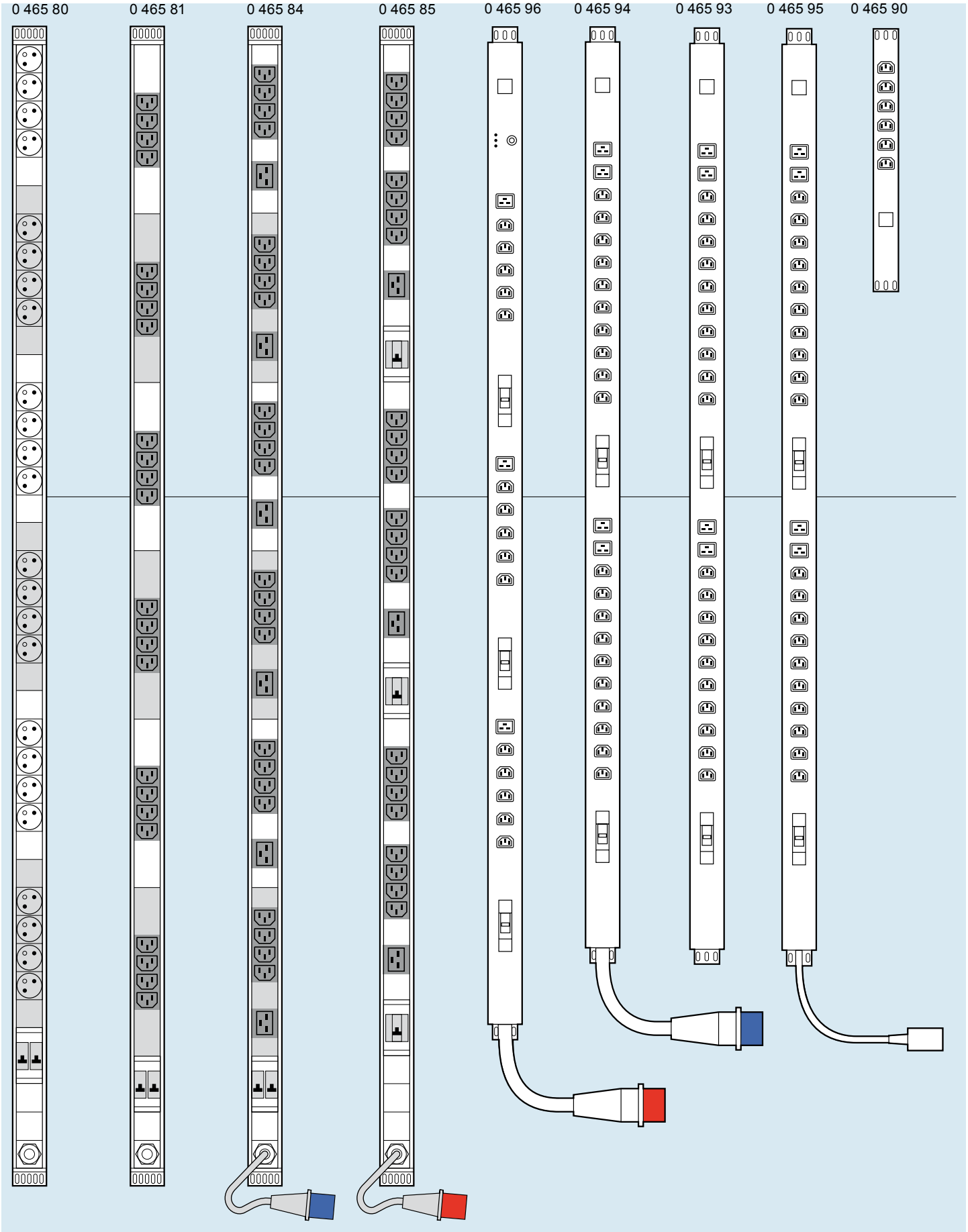
Keyboard support shelf (mm)



Energy distribution

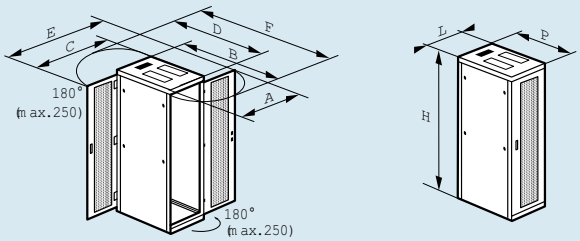
Vertical power strips LCS2

Measured vertical power strips LCS2



Varicon-L datacenter cabinets

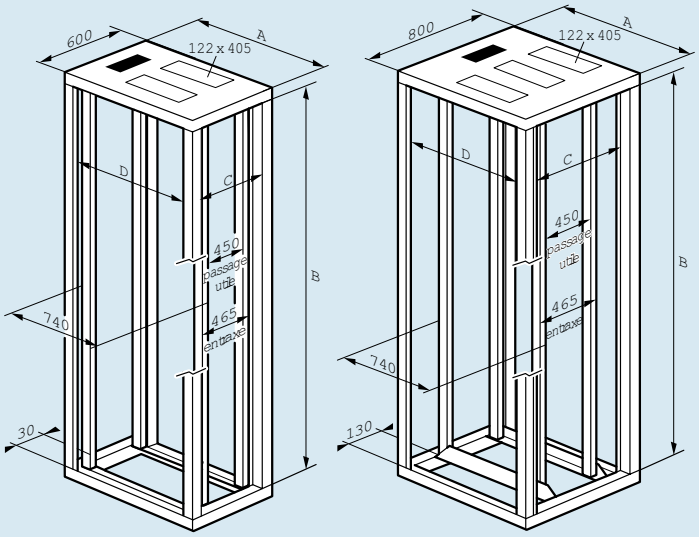
E Dimensions (mm)



Réf.	Capacité	Height	Width	Depth	Porte avant ouverte		Porte arrière ouverte		Porte avant et arrière ouvertes	
					A	B	C	D	E	F
6 466 10/30	41 U	2004	600	1040	1178	1615	1178	1615	1760	2189
6 466 12/32				1240		1815		1815		2389
6 466 13/33			800	1040	1580	1815	1580	1815	2360	2589
6 466 15/35				1240		2015		2015		2789
6 466 16/36	46 U	2204	600	1040	1178	1615	1178	1615	1760	2189
6 466 18/38				1240		1815		1815		2389
6 466 19/39			800	1040	1580	1815	1580	1815	2360	2589
6 466 21/41				1240		2015		2015		2789

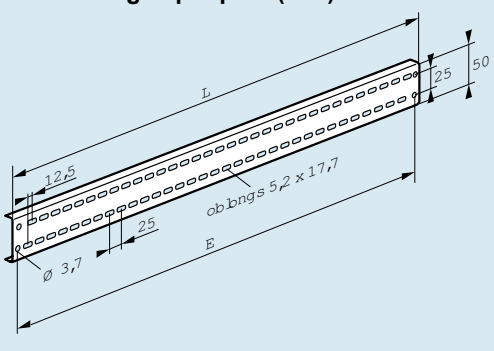
1: With leveling feet at the minim +26mm

Usable dimensions



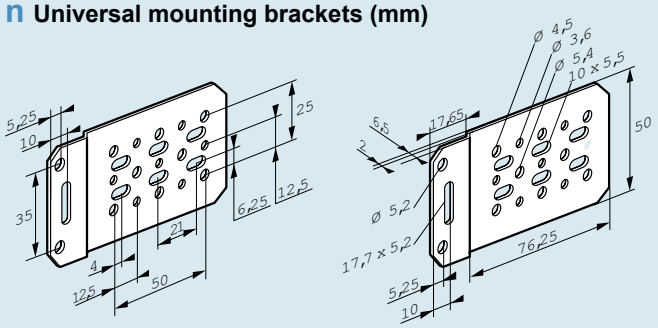
Ref.	Capacity	A	Dimensions		
			B	C	D
6 466 10/30	41 U	1040	1850	536	835
6 466 12/32		1240			1035
6 466 13/33		1040		736	835
6 466 15/35		1240			1035
6 466 16/36	46 U	1040	2050	536	835
6 466 18/38		1240			1035
6 466 19/39		1040		736	835
6 466 21/41		1240			1035

Mounting depth post (mm)

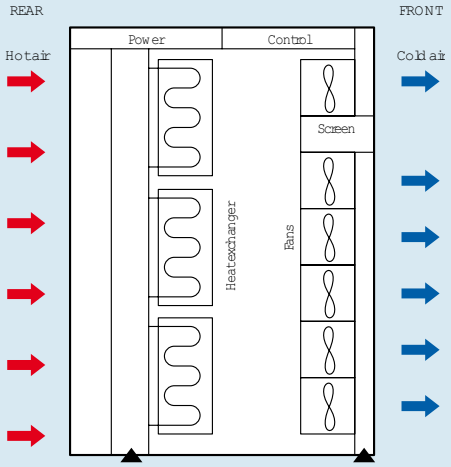


Réf.	L	E
6 466 55	865	850
6 466 57	1065	1050

Universal mounting brackets (mm)



Air conditioning unit



Cooling capacity	Electrical conections
24 kW*	230 V.a.c - 700 Watts - 1,1 kVA

* With temperature 25° C (on the servers)

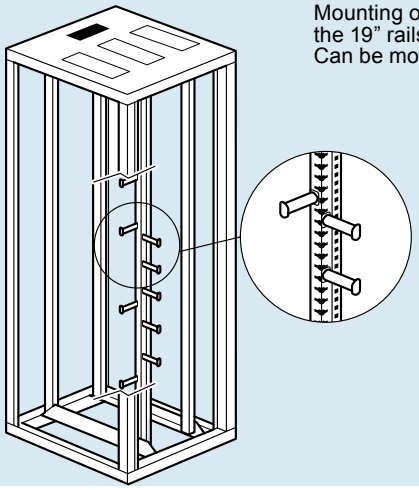
Max. waterflow	65 l/min
Recommended waterflow for 24 kW	54 l/min
Water temperature inlet	12°C*
Max. operating pressure	5 bars
Water hose connections (located in the bottom)	1 inch DN25, PN30, internal thread
Condens drain connection (located in the bottom)	5/4 inch, external thread
Max. airflow	5000 m³/h
Air inlet temperature IT equipment	18-27°C**
Max. allowable local humidity	15,5°C dp – 60% RV

* Advised water temperatures for 24 kW, other inlet temperature is possible.
Please contact us for advice for your specific situation.
** ASHRAE, Class 1,2

Valve type	2-way, proportional valve
Pressure drop valve	27 kPa*
Pressure loss coil assembly	66 kPa*
Kvs water valve	6,3 m³/h

* Recommandet 54 l/min

Vertical patch cord manager



Mounting of the patch cord guides on the 19" rails.
Can be mounted both front and side

Legrand cabling system LCS²
LCS² 19" and 10" cabinets

General characteristics

Metallic wall-mounting cabinets
RAL 7016 textured polyester coating providing excellent resistance to corrosion and scratching
Front safety glass door
Protection index (weatherproof) against solid objects and liquids: IP 20
Protection index against mechanical shocks: IK 08
Perforations in uprights : 9.5 x 9.5 mm
Permissible load: 3 kg/U (or 48 kg for a 19" cabinet 16 U)
12 kg for the 10" cabinet 6 U

Compliance with standards

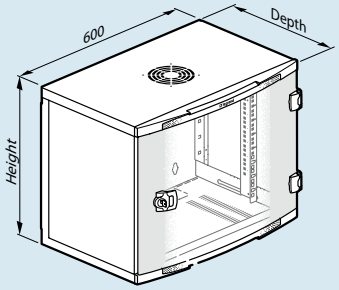
LCS² cabinets comply with the following standards:

IEC 60529 EN 60529	(NF C 20-010) Degrees of protection provided by enclosures (IP code).
IEC 62262 EN 62262	(EN 50102, NF C 20-015) Degrees of protection provided by enclosures of electrical material against external mechanical impacts (IK code).
IEC 60950-1 EN 60950-1 C 77-210-1	Safety of data processing equipment.
EIA-310-D	Cabinets, enclosures, panels and associated equipment (ANSI / EIA / 310-D-1992).
IEC 60297-1 & 2 DIN 41414-7	(NF C 20-150, NF C 20-151) Sizes of mechanical structures of the 482.6 mm (19 in) series

LCS² cabinets can be integrated into installations complying with the following standards:

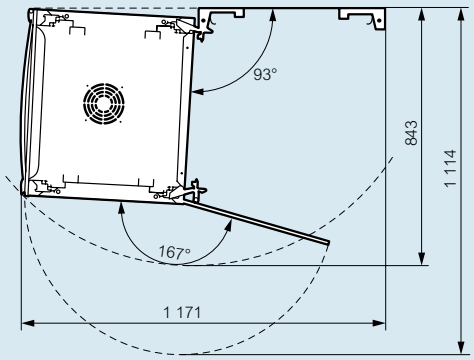
EN 50173-1	Information technology - Generic cabling systems.
EN 50174-1 & 2 C 90-480-1 & 2	Information technology - Cabling installation.
ISO IEC 11801	Information technology - Generic cabling for customer premises
NF C 15-100 Part 4-41	Low voltage electrical installations - Recommendations.
UTE C90-483	Residential cabling for communication networks

Overall dimensions (mm)

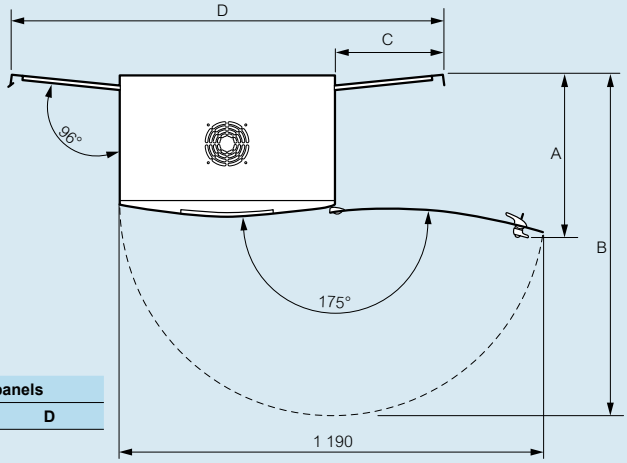


	Cat.Nos	Capacity	Height	Width	Depth
Fixed 19" cabinets	462 00	6 U	350	600	400
	462 01	9 U	500		
	462 02	12 U	600		
	462 03	16 U	800		
	462 06	9 U	500		580
	462 07	12 U	600		
	462 08	16 U	800		
	462 09	21 U	1000		
19" pivoting cabinets	462 11	9 U	500	600	600
	462 12	12 U	600		
	462 13	16 U	800		
	462 14	21 U	1000		
10" cabinet	462 20	6 U	352	314	300

Pivoting bottom opening

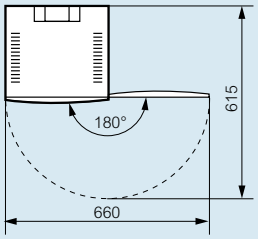


Front opening door and side panels



	Cat.Nos	Open doors		Open panels	
		A	B	C	D
Fixed 19" cabinets	462 00	400	962	305	1205
	462 01				
	462 02				
	462 03				
	462 06	580	1140	482.5	1565
	462 07				
	462 08				
	462 09				
19" pivoting cabinets	462 11	600	1179	482.5	1565
	462 12				
	462 13				
	462 14				

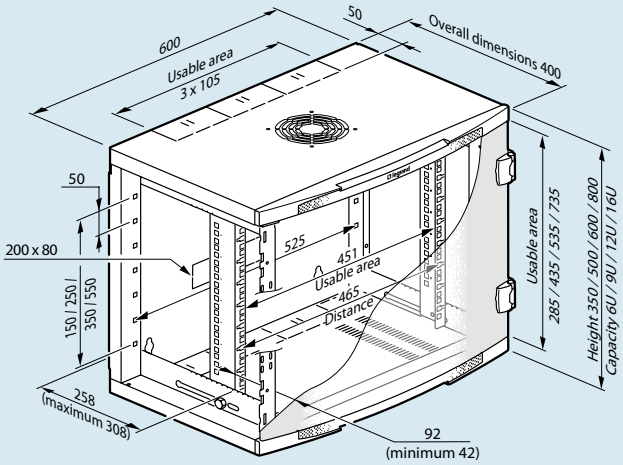
10" cabinet door opening Cat.No 462 20



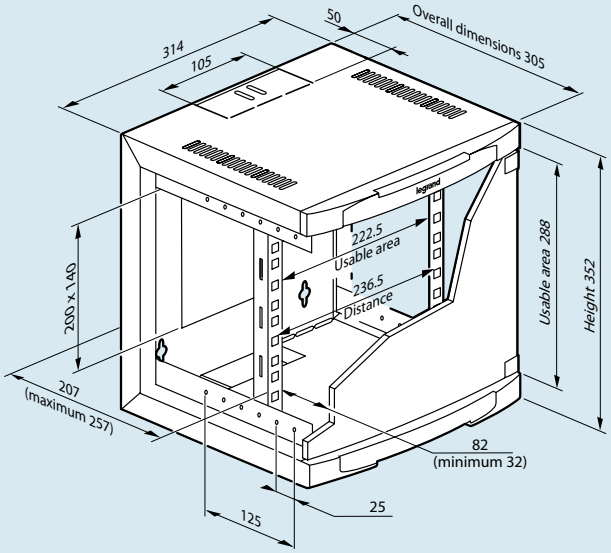
Legrand cabling system LCS²
LCS² 19" and 10" cabinets

Useable dimensions (mm)

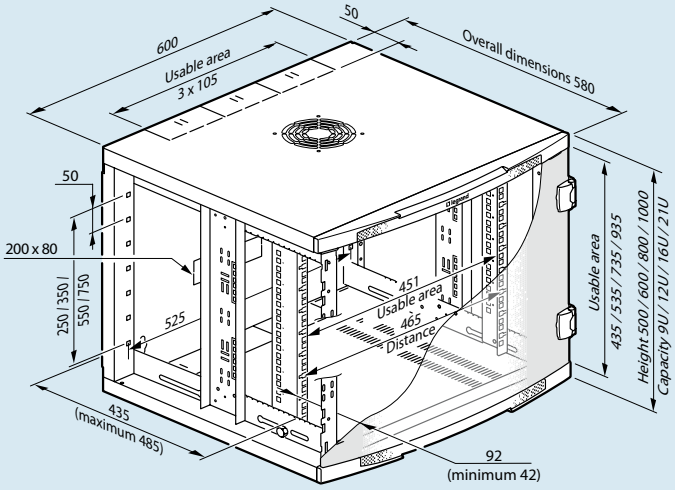
Fixed 19" LCS² cabinets depth 400 mm



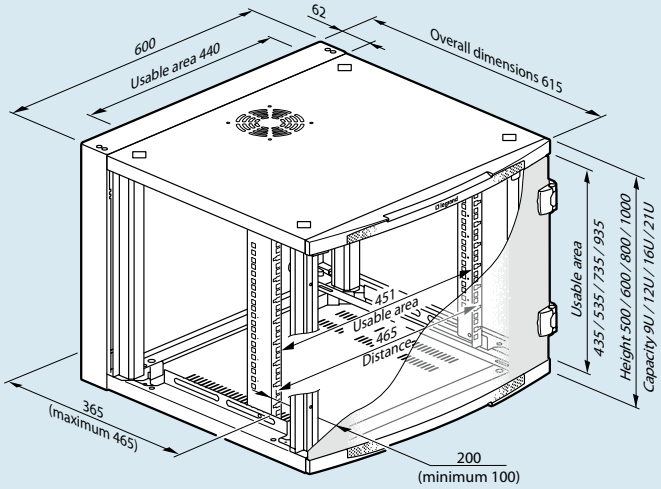
10" LCS² cabinet depth 300 mm



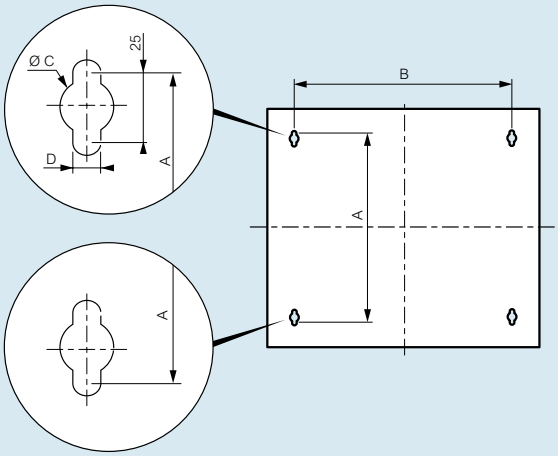
Fixed 19" LCS² cabinets depth 580 mm



19" LCS² pivoting cabinets depth 600 mm



Fixing of cabinets (mm)



	Capacity	A	B	C	D
Fixed 19" cabinets	6 U	275	408	20	11
	9 U	425			
	12 U	525			
	16 U	725			
	21 U	925			
19" pivoting cabinets	9 U	425	500	18	9
	12 U	525			
	16 U	725			
	21 U	925			
10" cabinets	6 U	275	250	15	6.5

Weight (kg)

	Cat.Nos	Weight
Fixed 19" cabinets	462 00	16.7
	462 01	20.4
	462 02	22.8
	462 03	26
	462 06	25.7
	462 07	32.7
	462 08	41.5
	462 09	52.5
19" pivoting cabinets	462 11	31.8
	462 12	40
	462 13	47.3
	462 14	59
10" cabinet	462 20	8

Compliance of the LCS² systems with standards and certifications

LCS² systems and components (de-embedded) conform to the following standards:
- TIA/EIA 568C
- EN 50173-1 and EN 50173-2
- ISO/IEC 11801 version 2

The LCS² system supports 10G applications
Base-T up to 100 m in a transmission channel
Conforms with standards ISO/IEC 24750, TIA TSB 155 and IEEE 802.3 an
The E_A link class of the LCS² system also conforms with amendment 1 (04/2008) of standard ISO 11801 and its components conform with amendment 2
LCS² systems are certified by expert independent laboratory 3P

PARTY TESTING THIRD 3P

POE+ READY
LCS2 connectors Cat.5e, Cat.6 and Cat.6A are tested well beyond the IEC 60512-99-001 and allow up to 2500 insertions under PoE+

WARRANTY 25 YEARS PERFORMANCE legrand

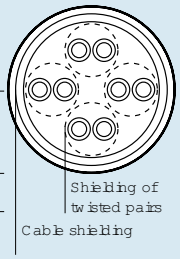
Main characteristics of the LCS² systems

	LCS² 6A		LCS² 6		LCS² 5e
Frequency	500 Mhz		250 MHz		100 Mhz
Speed	10 Gbit/s		1 Gbit/s		1 Gbit/s
Wiring	Copper	FO	Copper	FO	Copper
Connectors	RJ 45	SC-LC…	RJ 45	SC-LC…	RJ 45
Length cable max.	100 m	variable	100 m	variable	100 m

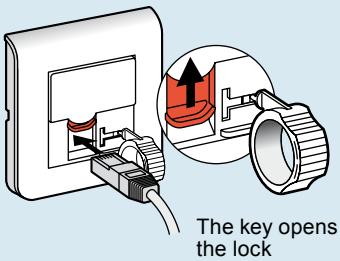
New names for LAN cables (according to ISO 11801-2)

They correspond to: "type of cable shield"/ "type of twisted pair shield"
TP monitoring (for twisted pairs)

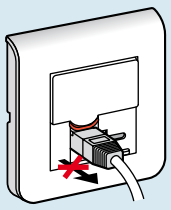
Type of cable		Shield of the cable	Shield of pairs twisted
old name	new name		
SSTP	S/FTP	S: screen made up	F: screen formed a metal braid of a ribbon alumin/polyester
SFTP	SF/UTP	SF: combination of ribbon + braid	U: no screen
STP	U/FTP	U: no screen	F: screen formed of a ribbon alumin/polyester
FTP	F/UTP	F: screen formed of a ribbon alumin/polyester	U: no screen
UTP	U/UTP	U: no screen	U: no screen



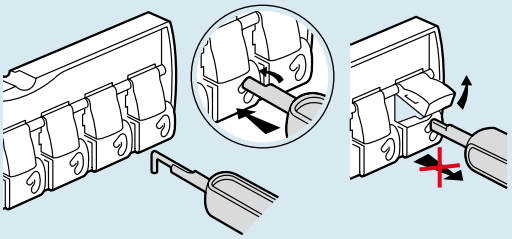
Controled access Mosaic socket



The key opens the lock



Imposible to remove the cord without key



Performance whene using a zone cabling box

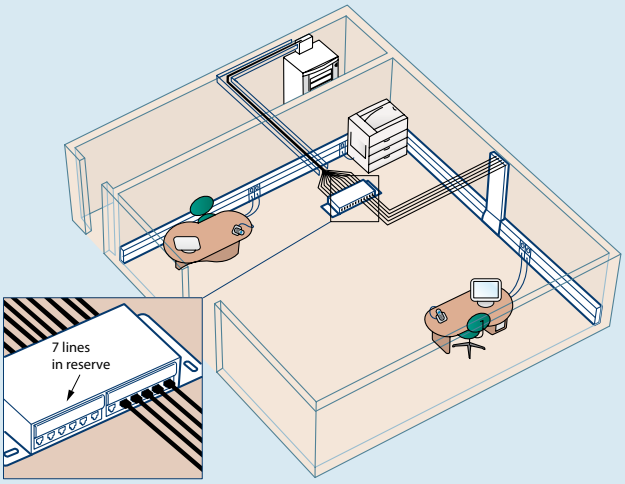
Maximum recommended lengths of links to ensure high performance of the systems with the use of RJ 45 sockets with copper feedthroughs and/or RJ 45 sockets

	Length Associated lengths (m)		
	Cords	Cables	Links
Cat. 6_A	8	70	78
	15	60	75
	20	55	75
Cat. 6	8	70	78
	15	60	75
	20	55	75
Cat. 5e	8	75	83
	15	65	80
	20	60	80

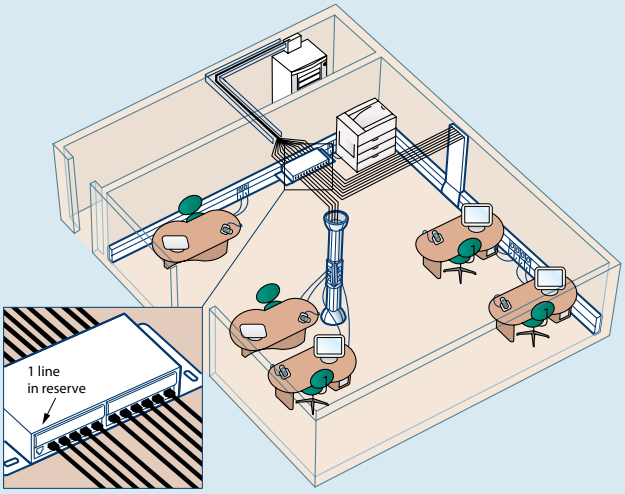
We recommend selecting the shortest wiring lengths for more flexibility regarding cord length in the event of reconfiguration

Application example

A zone distribution box is installed to connect the RJ 45 sockets and meet the future requirements of the installation



Connection to additional RJ 45 sockets is done by adding RJ 45 - RJ 45 cords between the unit and the RJ 45 sockets with copper feedthrough

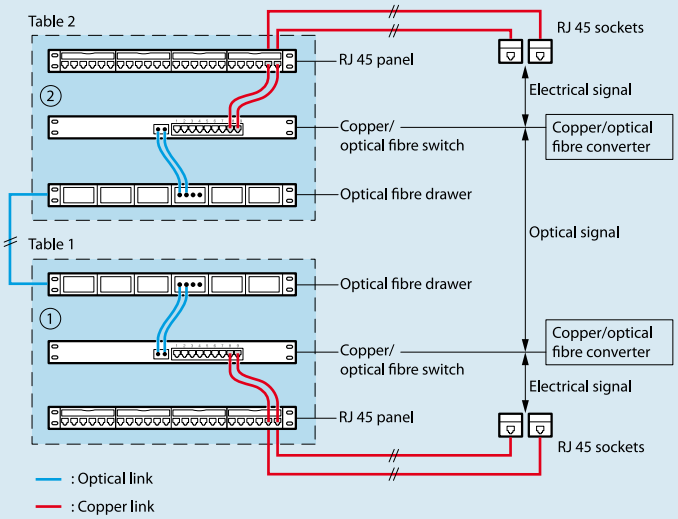


POE+ READY

LCS2 connectors Cat.5e, Cat.6 and Cat.6A are tested well beyond the IEC 60512-99-001 and allow up to 2500 insertions under PoE+

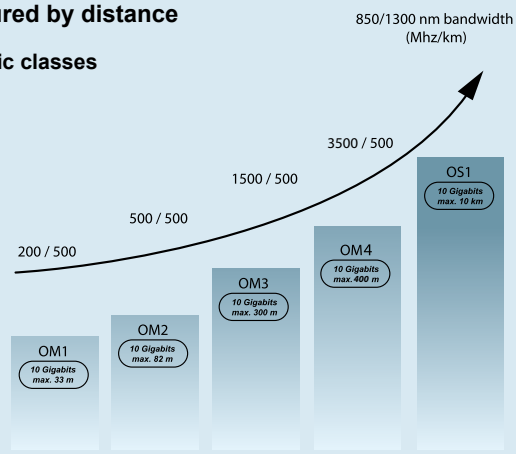
WARRANTY 25 YEARS PERFORMANCE legrand

Typical communication between copper outlets through the switches and fibre backbone



Speed ensured by distance

ISO 11801-2 optic classes



Protocols (length max.)	Multimode fibre				Singlemode fibre
	OM 1	OM 2	OM 3	OM4	OS 1/OS 2
10 Gb Ethernet (S base)	33 m	82 m	300 m	400 m	N/A
10 Gb Ethernet (L base)	N/S	N/S	N/S	N/S	2 km
10 Gb Base - E	N/A	N/A	N/A	N/A	10 km
1000 Base - SX	275 m	550 m	550 m	550	-
1000 Base - LX	550 m*	550 m*	550 m*	550 m*	2 km
Market trend	↘ ↘	↘	↗	↗ ↗	→

N/A= Not Available. N/S= Not Specified
* With use mode conditioning cord

Maximum allowable Insertion Loss per application and cable type. (dB)

	OM1	OM2	OM3	OM4	OS1/OS2
1000 Base-SX	2.6	2.6	2.6	2.6	N/A
1000 Base-LX	2.35	2.35	2.35	2.35	4.56
10 G base-SR/ SW	1.6	1.8	2.6	2.6*	N/A
10 G base-LR/ LW	N/A	N/A	N/A	N/A	6

*The maximum insertion loss for 10Gbase-SR is not yet ratified for OM4.
N/A = Not Available

Maximum distance and Insertion loss (IL) for 40G and 100G per cable type						
	OM3		OM4		OS1/OS2	
	Distance	IL	Distance	IL	Distance	IL
40 G base-SR4 (1)	100 m	1.9 dB	150 m	1.5 dB	N/A	N/A
40 G base-LR4	N/A	N/A	N/A	N/A	10 km	6.7 dB
100 G base-SR 10 (2)	100 m	1.9 dB	150 m	1.5 dB	N/A	N/A
100 G base-LR10	N/A	N/A	N/A	N/A	10 km	2.9 dB

(1): The application requires 4 duplex channels for a total of 8 cores, and is defined only for MPO/MTP technology.

(2): The application requires 10 duplex channels for a total of 20 cores, and is defined only for MPO/MTP technology.

There is a penalty allocation of 6,3dB on OM3 and 6.4dB on OM4 that can be re-allocated in case of short links.

Metal cabinets
IP 55/IP 66 - IK 10 - Nema 4x - Nema 12



355 23

IP 66 according to standards IEC EN 60529 for 1 doors cabinets
IP 55 according to standards IEC EN 60529 for 2 doors cabinets
IK 10 according to standards IEC EN 62262
LCIE 17 07 90 10A
Nema 4x, 1 door, Nema 12, 2 doors - UL, CSA, Bureau Véritas, TÜV, GÖST agreements
EMC attenuation 20 dB (for an EMC attenuation from 40 to 50 dB at 1 GHz, please consult us)
Excellent resistance to corrosion and chemical agents
80 µm thick textured polyester coating. Anti-corrosion treatment for hinges and axis
Reversible door - One locking point. Locking with key 2433 A (2 keys supplied)
For height upper than 300 mm, fitted with lever
Low cable entries RAL 7035
Optional depth regulation for cabinets 400 mm depth Cat.No 0 367 45 (p. 265)

Metal cabinets vertical version

Pack	Cat.Nos	External dimensions (mm) Height x Width x Depth	Number of doors	Weight (kg)
1	355 14	800 x 600 x 250	1	18.8
1	355 17	1000 x 600 x 250	1	24
1	355 18	1000 x 800 x 250	1	36.4
1	355 23	800 x 600 x 300	1	28.8
1	355 26	1000 x 600 x 300	1	33.3
1	355 27	1000 x 800 x 300	1	42
1	355 92	1200 x 800 x 300	1	49.6
1	355 93	1200 x 1000 x 300	2	62.2
1	355 95	1400 x 1000 x 300	2	71
1	355 28	800 x 600 x 400	1	31
1	355 29	1000 x 800 x 400	1	45
1	355 96	1200 x 800 x 400	1	57
1	355 98	1400 x 800 x 400	1	64

Metal cabinets square version

Pack	Cat.Nos	External dimensions (mm) Height x Width x Depth	Number of doors	Weight (kg)
1	355 10	600 x 600 x 250	1	16.3
1	355 15	800 x 800 x 250	1	21.6
1	355 20	600 x 600 x 300	1	21.1
1	355 24	800 x 800 x 300	1	34.2
1	355 91	1000 x 1000 x 300	2	53
1	355 94	1200 x 1200 x 300	2	70
1	355 36	600 x 600 x 400	1	28
1	355 97	1200 x 1200 x 400	2	77

Metal cabinets horizontal version

Pack	Cat.Nos	External dimensions (mm) Height x Width x Depth	Number of doors	Weight (kg)
1	355 06	400 x 600 x 250	1	11.7
1	355 33	800 x 1000 x 250	2	27
1	355 21	600 x 800 x 300	2	28.8
1	355 37	600 x 1000 x 300	2	32
1	355 34	800 x 1000 x 300	2	33.3
1	355 90	1000 x 1200 x 300	2	62.2

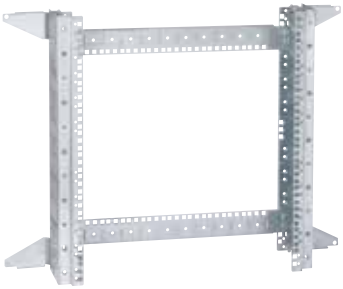
Wall-mounting rack for weatherproof cabinets



329 46



329 47



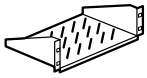
462 28



465 00

Pack	Cat.Nos	Wall-mounting VDI rack for Atlantic and Marina cabinets
		For integrating 19" VDI equipment in Atlantic cabinets (Cat.Nos 0 355 xx) and Marina cabinets, width 600 or 800 mm and depth 250 mm min. In cabinets width 400 mm, the rack enables 10" VDI equipment to be incorporated Can be fixed directly on the wall to create a wall-mounted rack (without cabinet) Self-locking cable ties and cable ties with tightening indicator can be fitted
1	462 27	6 U rack
1	462 28	12 U rack
1	462 29	16 U rack

Pack	Cat.Nos	Cable entry for Atlantic cabinets width 600 or 800 mm and 19" equipment
		Cable entry
1	329 46	IP 43 cable entry plate with brush (cable feedthrough 385 x 30 mm)
1	329 47	IP 55 cable entry plate with multi-entry cable glands Supplied with 12 ISO 32 cable glands Each cable gland allows the insertion of 4 UTP/FTP/SFTP cables (Ø6.5 to 9.5 mm) Cords with connectors can be fed through without having to dismantle the cable gland Supplied with blanking plates for unused entries
		Fixed shelf Projecting mounting on 2 x 19" uprights Fast screw-free assembly Max. load 15 kg Height 2 U Black RAL 9005
1	465 00	Depth 115 mm



catalogue number index

Cat.Nos	Page No	Pack
090 00		
097 99	96	10
300 00		
325 04	84	2000
05	-	2000
06	-	2000
07	-	2000
08		2000
09		2000
10	-	2000
11	-	2000
12		2000
13		2000
14	-	2000
15	-	2000
50	-	2000
51	-	2000
52	-	2000
53	-	2000
54	-	2000
55	-	2000
58	-	2000
59	-	2000
60	-	2000
325 70	87	1
71	-	1
72	-	1
73	-	1
74	-	1
75	-	1
76	-	1
77	-	1
78	-	1
79	-	1
326 00	87	3
01	-	3
02	-	3
03	-	3
04	-	3
05	-	3
06	-	3
326 07	87	3
08	-	3
326 09	-	3
10	-	3
11	-	3
12	-	3
13	-	3
14	-	3
15	-	3
16	-	3
17	-	3
20	85	1
21	-	1
22	-	1
23	-	1
24	-	1
326 25	85	1
26	-	1
27	-	1
28	87	3
30	-	3
31	-	3
32	-	3
33	-	3
34	-	3
35	-	3
36	-	3
37	-	3
40	-	1
41	-	1
42	-	1
45	-	1
46	-	1
47	-	1
48	-	1
49	-	1
52	85	10
53	-	10
54	-	10
56	-	10
57	-	10
58	85	10
61	85	10
62	-	10
65	-	500
66	-	1000
67	-	1000
68	-	1000
70	85	10
71	-	1
326 72	85	1
80	86	1
81	-	1
82	-	1
326 83	86	1
84	-	1
90	-	1
91	-	1
327 37	80	1
44	85	1
45	81	10
46	-	10
47	-	10
48	-	10
50	77	305
51	-	305
52	-	305
53	-	305
54	71	305
55	-	305
56	-	500
57	-	500
58	-	500
59	-	500
60	81	1
73	77	500
74	-	500
77	67	500
78	-	500
81	-	1
83	81	10
87	67	500
328 50	77	500
51	-	500
52	-	500
53	-	500
54	-	500
55	-	500
56	71	305
57	-	305
58	-	500
61	-	500
62	-	500
71	-	1000
72	-	1000
73	77	1000
74	-	1000
328 78	67	500
88	82	1
91	-	1
329 07	85	1
326 71	85	1
330 48	85	1
49	-	1
61	88	3
62	-	3
63	-	3
65	-	3
69	-	3
70	-	3
71	-	3
72	-	3
73	-	3
75	-	3
76	-	3
80	-	3
81	-	3
82	-	3
331 00	85	1
27	-	1
35	99	1
47	85	1
54	69	10
55	-	10
80	79	10
81	75	10
332 37	97	1
60	73	1
61	-	1
62	81	1
78	97	1
79	-	1
80	82	1
81	80	1
87	97	1
88	-	1
91	80	1
93	-	1
334 70	80	5
71	-	2
72	-	2
334 73	-	2
74	-	2
334 75	80	2
335 01	80	1
02	-	1
05	-	1
06	-	1
07	-	1
10	86	1
11	-	1
12	80	1
13	-	1
16	-	1
17	-	1
18	-	1
19	-	1
20	88	1
21	83	1
22	-	1
335 24	83	1
25	-	1
26	-	1
27	-	1
30	82	1
31	-	1
32	-	2
33	-	2
34	80	1
35	-	1
36	-	1
37	-	1
38	-	1
39	-	1
40	68	1
44	72	1
45	-	1
46	-	1
51	76	1
52	-	1
54	-	2
55	-	2
61	70	1
62	-	1
63	-	1
64	-	2
335 65	-	2
335 66	70	2
67	-	1
68	-	1
335 73	66	1
335 76	66	2
80	76	1
81	-	1
82	70	1
83	70	1
84	66	1
85	-	1
86	-	1
88	76	1
89	70	1
90	66	1
91	-	10
92	100	1
93	87	1
94	-	8
96	89	1
97	-	1
98	-	1
99	-	1
336 46	68	1
347 95	93	20
348 48	96	1
364 53	99	1
54	-	1
365 80	96	20
81	-	20
82	-	1
369 00	89	1
01	-	1
02	-	1
03	-	1
400 00		
462 00	100	1
01	-	1

Références en gras : Produits de vente courante habituellement stockés par la distribution. Emballages en gras : Obligatoires pour livraison d'usine

Références en rouge : Produits nouveaux

Cat.Nos	Page No	Pack
462 02	-	1
03	-	1
06	-	1
07	-	1
08	-	1
09	-	1
11	-	1
12	-	1
13	-	1
14	-	1
20	-	1
23	-	1
24	-	1
25	-	1
26	-	1
55	100	1
60	-	1
64	-	1
462 90	87	1
91	87	1
463 00	95	1
06	-	1
12	-	1
18	-	1
463 19	**95**	**1**
21	-	1
22	-	1
23	-	1
28	-	1
29	-	1
30	-	1
33	-	1
34	-	1
35	-	1
37	-	1
38	-	1
39	-	1
463 41	95	1
42	95	1
43	95	1
463 85	93	1
86	93	1
464 06	92	1
07	-	1
15	93	1
16	-	1

Cat.Nos	Page No	Pack
464 18	-	1
19	-	1
23	-	1
25	92	1
26	93	1
27	-	1
50	95	1
51	-	1
52	-	1
53	-	1
54	-	1
56	-	1
58	-	1
60	-	1
61	-	1
62	-	1
63	-	1
64	-	1
464 66	**95**	**1**
69	99	1
70	-	1
72	-	1
73	-	1
74	-	1
76	-	1
77	-	1
78	93	1
79	-	1
80	99	1
81	-	1
82	93	1
83	96	1
84	-	1
85	-	1
86	-	1
87	96	1
88	-	1
89	-	1
90	-	1
465 00	97	1
01	-	1
02	-	1
05	-	1
06	-	1
07	-	1
08	-	1
09	-	1
10	-	1
11	-	1

Cat.Nos	Page No	Pack
465 12	-	1
13	-	1
17	93	1
18	-	1
19	97	1
22	99	1
23	-	1
28	96	1
29	-	1
30	-	1
31	-	1
32	-	1
33	-	1
38	-	1
39	-	1
40	-	1
41	99	4
42	-	4
45	97	1
465 50	97	1
54	-	1
60	-	1
62	-	1
70	93	1
71	-	1
465 80	98	1
81	-	1
84	-	1
85	-	1
93	-	1
94	-	
95	-	1
96	-	1
472 72	96	1
75	-	1
473 62	96	1
63	-	1
91	-	1
92	-	1
476 83	96	1
93	96	1
94	-	1
95	-	1
96	96	1

Cat.Nos	Page No	Pack
482 20	96	1
500 00		
515 00	78	4
01	-	4
02	-	4
03	-	4
04	-	4
05	-	4
10	72	4
11	-	4
12	-	4
13	-	4
14	-	4
15	-	4
23	68	4
24	-	1
25	-	4
516 36	77	1
37	-	1
38	-	1
39	-	1
40	-	1
41	-	1
42	-	1
43	-	1
517 01	81	50
02	-	50
03	-	50
04	-	50
06	-	50
517 07	81	50
09	-	1
20	89	1
22	-	1
23	89	1
24	89	1
25	89	1
40	80	10
41	-	10
52	71	5
53	-	5
54	-	5
55	-	5
57	72	4
58	-	4
59	-	4
62	71	1
63	-	1

Cat.Nos	Page No	Pack
517 64	-	1
65	-	5
72	-	1
73	-	1
74	-	1
75	-	1
80	67	5
81	-	5
82	-	5
83	-	5
90	78	4
91	-	4
92	-	4
93	-	4
94	-	4
95	-	4
96	72	4
97	-	1
98	-	4
518 50	71	1
51	-	1
52	-	1
53	-	1
54	-	1
55	-	1
56	-	1
57	-	1
58	-	1
59	-	1
60	-	1
61	-	1
62	-	1
63	-	1
64	-	1
65	-	1
518 66	67	5
67	-	5
68	-	5
69	-	5
70	-	5
71	-	5
72	-	5
73	-	5
74	-	5
75	-	5
76	-	5
77	-	5
78	-	5
79	-	5
80	-	5

Cat.Nos	Page No	Pack
518 81	-	5
82	-	5
83	-	5
84	-	5
85	-	5
533 00	81	3
01	-	3
02	-	3
03	-	3
539 49	81	5
600 00		
673 44	75	10
45	-	10
46	69	10
54	75	10
55	-	10
66	83	1
96	75	10
695 56	79	1/20
57	-	1/20
61	75	1/20
69	-	5/100
79	81	1
80	-	10
81	75	1
700 00		
765 01	79	10
02	-	5
03	74	1
04	-	1
05	-	10
765 06	74	5
08	69	10
09	-	10
14	74	1
18	79	10
22	74	10
23	-	10
24	69	10
25	-	10
26	-	10
27	-	10
30	79	1
32	74	1
33	-	1/10

Cat.Nos	Page No	Pack
765 35	81	10
36	-	10
37	-	10
38	-	10
39	-	10
41	79	5
42	-	5
44	74	5
46	-	5
51	79	10
52	-	10
54	-	10
55	-	10
61	74	10
62	-	10
63	-	10
64	-	10
65	-	10
66	-	10
71	69	10
73	-	10
74	-	10
76	-	10
81	74	10
82	-	10
83	-	5
90	69	5
91	74	10
92	-	10
93	-	10
94	-	5
95	-	5
96	-	5
97	79	5
99	69	5
775 41	98	1
778 80	81	1
81	-	1
91	75	10
779 00	82	1
01	-	1
05	86	1
06	86	1
13	83	1
14	-	1
20	82	1
30	90	1

Cat.Nos	Page No	Pack
786 05	79	10
06	74	10
07	-	10
16	89	1
17	-	1
18	-	1
20	78	10
21	-	10
22	73	10
23	-	10
24	78	10
25	-	10
26	73	10
27	-	10
28	68	10
29	68	10
787 52	90	1
53	-	1
54	-	1
787 57	90	1
787 58	90	1
59	-	1
63	-	1
64	-	1
68	-	1
69	-	1
70	-	1
71	-	1
72	-	1
73	-	1
74	-	1
792 54	90	1
57	-	1
64	-	1
75	-	1
794 12	74	10
13	-	10
33	-	1/10
51	79	10
52	-	10
54	-	10
55	-	10
61	74	10
62	-	10
64	-	10
65	-	10
794 71	69	10
73	-	10
74	-	10

Cat.Nos	Page No	Pack
794 76	-	10
92	74	10
900 00		
919 45	81	1
7700 00		
7700 72	69	10
73	-	10
7702 32	75	10
33	-	10
38	79	10
39	-	10
43	75	10
44	-	10
72	69	10
73	-	10
7741 32	75	10
33	-	10
38	79	10
39	-	10
40	75	10
41	-	10
42	-	10
43	-	10
7741 44	75	10
45	-	10
71	69	10
72	-	10
7742 32	75	10
33	-	10
38	79	10
39	-	10
40	75	10
41	-	10
42	-	10
43	-	10
44	-	10
45	-	10
630 000		
633 912	73	10
28	-	1
68	-	5
69	-	1
6339 70	-	1
71	-	1
72	-	1
73	-	1

Cat.Nos	Page No	Pack
646 610	102	1
612	-	1
613	-	1
615	-	1
616	-	1
618	-	1
619	-	1
621	-	1
630	-	1
632	-	1
633	-	1
635	-	1
636	-	1
638	-	1
639	-	1
641	-	1
655	-	1
657	-	1
659	-	1
661	-	1
662	-	1
665	-	1
666	-	1
668	-	1
669	-	1
681	-	1
682	-	1
685	-	1
688	-	1
689	-	1
646 710	103	1
712	-	1
720	-	1
722	-	1
724	-	1
728	-	1
740	-	1

Cat.Nos	Page No	Pack
HC4279C6		
HC4279C6	75	1
HC4279C6A	69	1
HC4279C6F	75	1
HC4279C6S	-	1
HD4279C6	-	1
HD4279C6A	69	1
HD4279C6F	75	1
HD4279C6S	-	1
HS4279C6	-	1
HS4279C6A	69	1
HS4279C6F	75	1
HS4279C6S	-	1

NOTE:

World Headquarters
and International Department
87045 LIMOGES CEDEX
FRANCE

Tel. : + 33 5 55 06 87 87
Fax : + 33 5 55 06 74 55

www.legrandgroup.com

EXB10019 - ECO - August 2013