WHITE SPACE

STRUCTURED
CABLING

DATA CENTER
STRUCTURED
CABLING SOLUTIONS
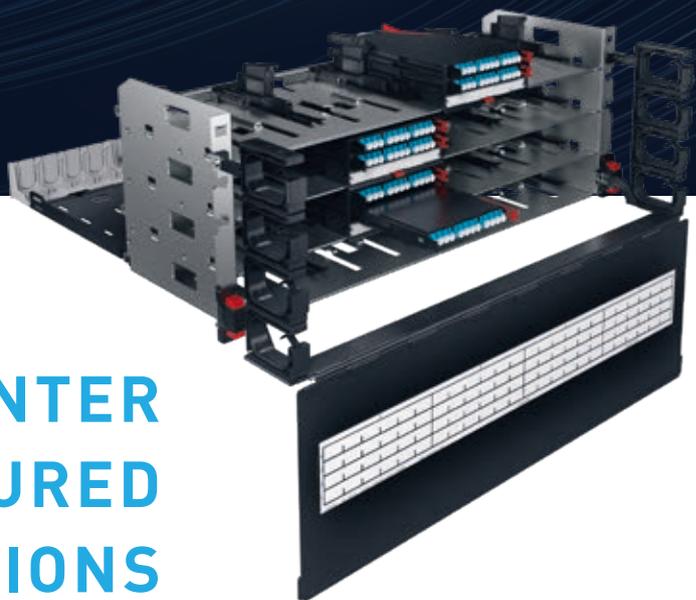
RELIABLE, EFFICIENT, SCALABLE **DATA CENTER SOLUTIONS**
POWERED BY SPECIALIST BRANDS

L7 legrand®
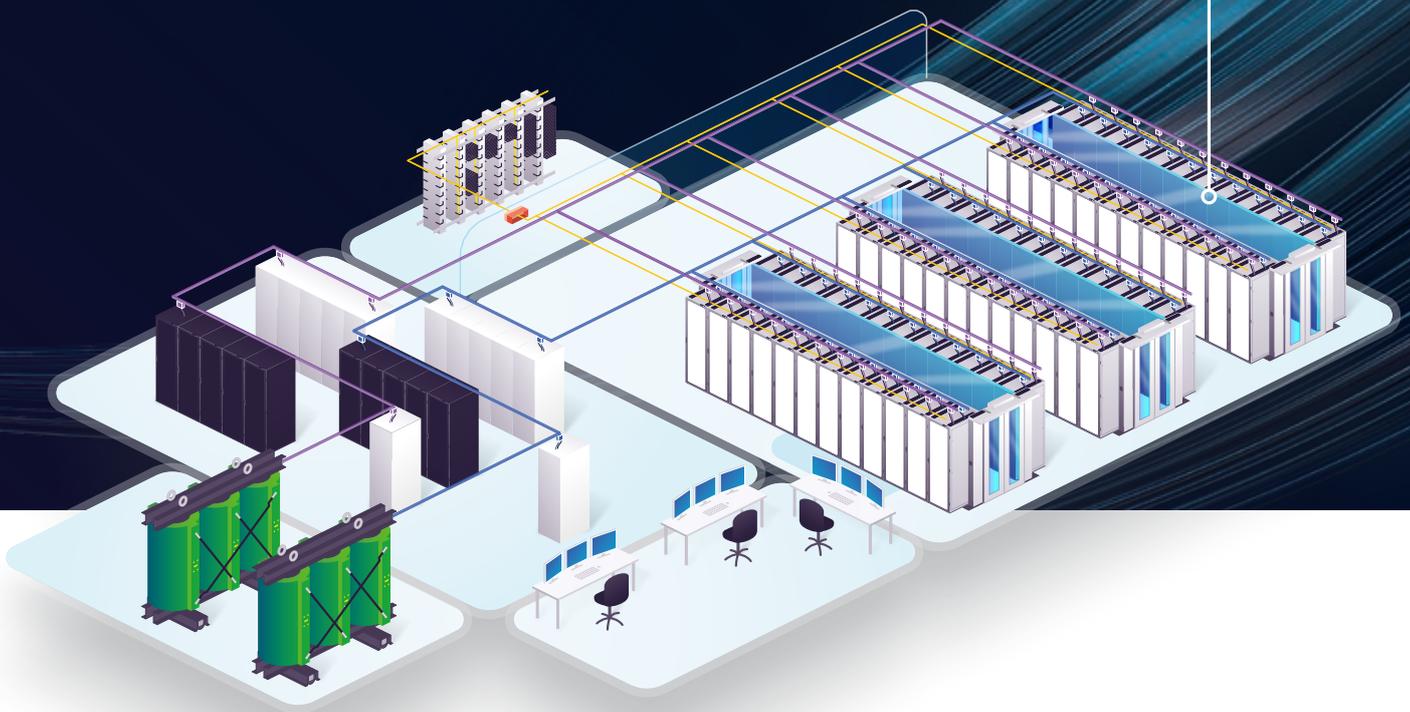
With the complexities of today's data centers, as well as the promise of higher speeds and technological breakthroughs in the not-too-distant future, it's no wonder that the importance of structured cabling is also increasing.

In contrast to the many limitations inherent in point-to-point connections, structured cabling — or the use of smaller standardized subsystems — allows easier individual connections to be found, moved, and generally managed. Clearly, for forward-thinking data centers, structured cabling infrastructure is the way to go when it comes to data cabling solutions.

UPTIME
With newer data centers, access to critical information is the business's lifeblood, which means that uptime requirements — often with a rating as high as 99 percent — must be supported by the cabling system you install.

SCALABILITY
Whatever cabling solution you choose today will undoubtedly be required to make room for more bandwidth and higher speeds in the future. Scalability is as essential in your cabling infrastructure as it is to the equipment it connects.

FUTURE-PROOF
Along with scalability, your cabling system must be easy to adapt for future equipment changes, such as the push for more modular device usage and migrations to the cloud and virtual services.

LEGRAND'S RESPONSE

The LCS³ cabling system is a modular and flexible connection and distribution system for:
- copper and fiber optic technology
- 19" installation
- pre-assembled copper and fiber trunking technology
- splicing technology and on-site assembly of copper connection modules

The overall system is designed in such a way that the various basic housings and basic support systems for accommodating the module housings can be configured for the most diverse areas of use and application conditions via standardised components and individual parts.

This very high degree of flexibility means that customer-specific requirements can be configured individually.

CABLE MANAGEMENT ACCESSORIES

1U PANEL, 2U PANEL, 4U PANEL

COPPER AND FIBER CASSETTES
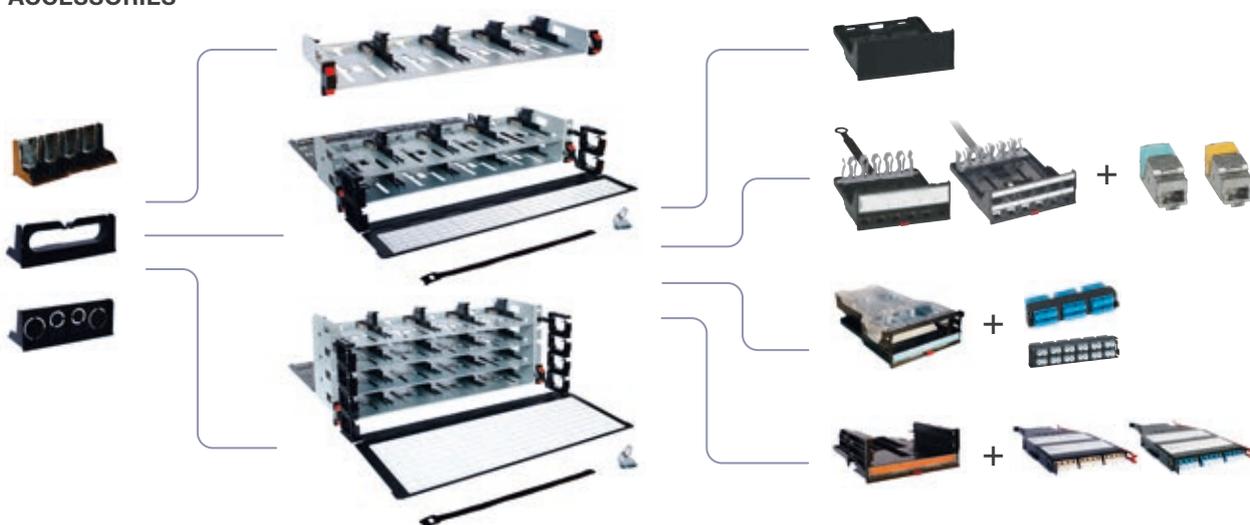
LCS³ system:
Performance

Legrand's LCS³ system offers you a complete range of copper solutions as well as fiber optic solutions designed to deliver advanced network performance:

▸ 25 Gbps and 40 Gbps Ethernet applications (Copper system)

▸ 40 Gbps, 100 Gbps and 400 Gbps Ethernet applications (Fiber optic system)

▸ MTP/MPO high density and up to Cat. 8 solutions (Copper and Fiber optic systems)

INSTALLATION
KITS

■ Zero-U kit for universal fixing

The Zero-U kit Cat.No 0 321 03 enables you to mount cassettes on 19" uprights, raised access floors, wire and sheet metal cable trays, structural uprights of the enclosure, etc.
The kit can take up to 2 slim High Density cassettes Cat.Nos 0 321 68/69/70 or 1 universal High Density cassette Cat.No 0 321 59 or 0 321 60.

- Efficient solution to optimize space without the need to add an enclosure.
- Compatible with 1U, 2U and 4U High Density modular panels.
- Easy mounting on cable trays (such as Cablofil) thanks to quick-fixing solutions.

■ 1U to 4U kit for overhead fixing

No space available in your LCS³ enclosure? The innovative kit Cat.No 0 321 89 enables you to fix the High Density modular panels on wire cable trays, above the enclosure.

- Perfect toolless fitting on cable trays. It can also be installed on roofs of racks.
- Maintains duplex multimode fiber architecture.
- Scalable (move, add, change) and efficient (space optimization) system.
- Easy installation and maintenance.
- Can be equipped with fiber optic and copper solutions.
- Compatible with automatically removable cassettes.
- Accommodates the same solutions as 19" patch panels.
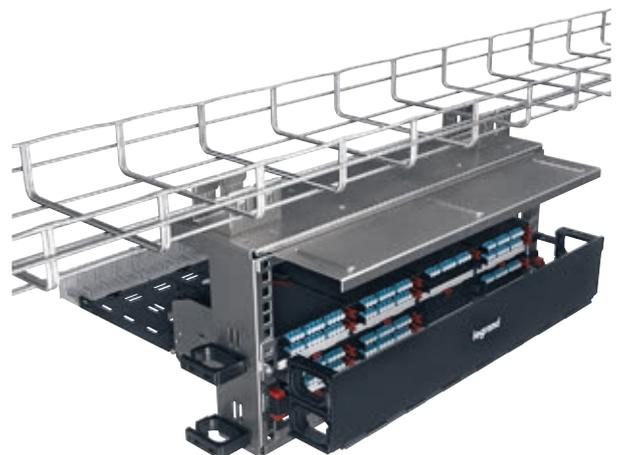
HIGH DENSITY
MODULAR PANELS

■ **From 1U to 4U**

Optimize space and connectivity with our three HD modular panels! These quick-fixing solutions (automatic mounting and automatic grounding on 19" uprights) offer you optimum capacities per U: 96 in LC version, 48 in SC version, and 24 in ST version! Keeping link connections accessible and manageable, they offer slim and mix-media cassettes.

4U HIGH DENSITY PANEL
Can hold up to 32 slim cassettes (into 16 supports)

Rear management accessories to suit all configurations: fan out, cable glands, copper

Possibility to mix fiber and copper cassettes in one panel

Each panel can be equipped with both standard and slim High Density cassettes

Quick fixing solutions on all the versions from 1U to 4U

Cord management system (except for the 1U panel, to be equipped with Cat.No 0 321 78) with front, side and bottom protection of the patchcords, preventing any risk of damage

Labeling system for easy identification

Equipped with the new-generation Quick-fix system for automatic (screwless) mounting on racks or cabinet uprights

Integrated front door for protection against intrusive patching and laser
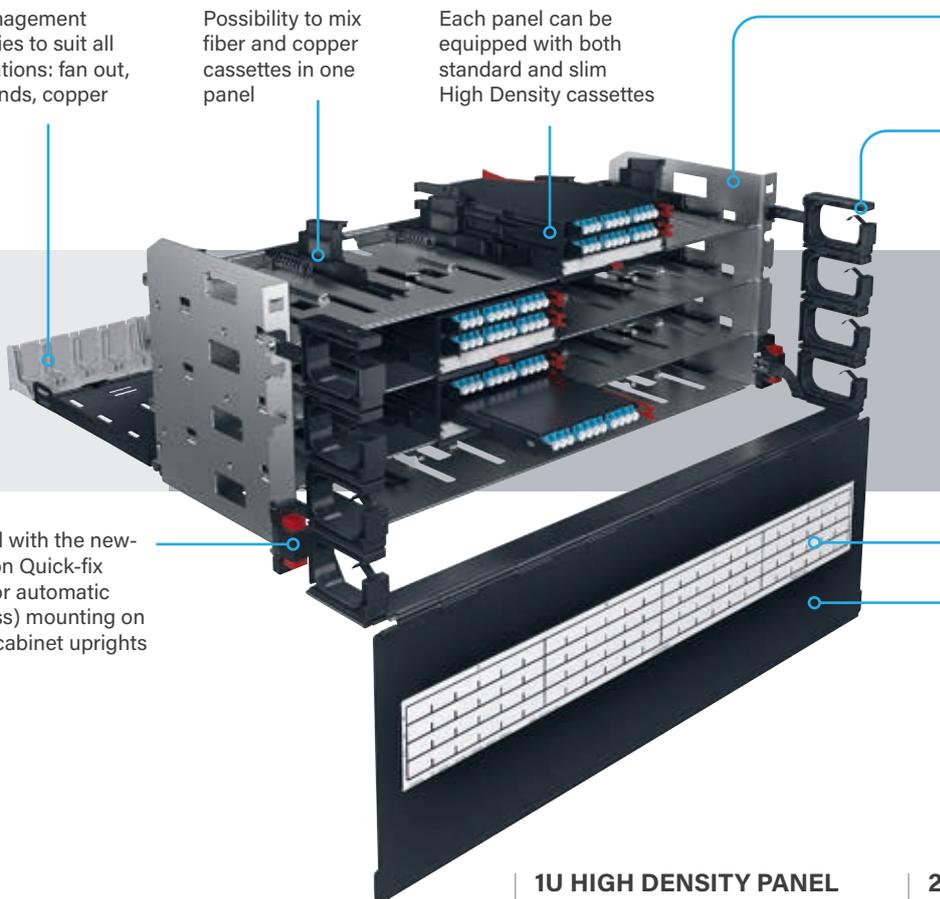
1U HIGH DENSITY PANEL
Can hold up to 8 slim cassettes (into 4 supports)

2U HIGH DENSITY PANEL
Can hold up to 16 slim cassettes (into 8 supports)

Fiber optic is a transmission medium that enables a larger bandwidth to be used than copper cables. With fiber optic cables, transmission is based on the propagation of light pulses, generated by an LED or a laser source in the infrared band, along a glass fiber. Inside an optical fiber, the signal can either be propagated in a straight line, or be reflected many times. Straight line propagation mode is said to be zero order. Singlemode fibers only use one mode to propagate light. The diameter of their cores is between 8 and 10 μm. Multimode fibers allow several propagation modes, and the diameter of their cores is 50 μm or 62.5 μm (the latter is hardly ever used now).
The diameter of the cladding is usually 125 μm. Multimode fibers are used in indoor installations and enable more economical devices to be used. They are subject to modal distortion when the different modes propagate at slightly different speeds, limiting the maximum distance at which the signal can be received correctly.
Singlemode fibers are used in outdoor installations as they can cover much longer distances and reach much higher speeds.

FIBER OPTIC SYSTEM
MTP SOLUTIONS

High-speed solution

With data centers, increased data rates have become a priority requirement. The IEEE has introduced parallel optics as an alternative to higher bandwidth fiber, starting with 40Gbps and now reaching 800Gbps Ethernet.

To answer this need, Legrand has introduced the MTP (Multiple-Fiber Push-On/Pull-Off compatible MPO) fiber solution to the catalogue. It guarantees speed, resistance, high performance, and high density.
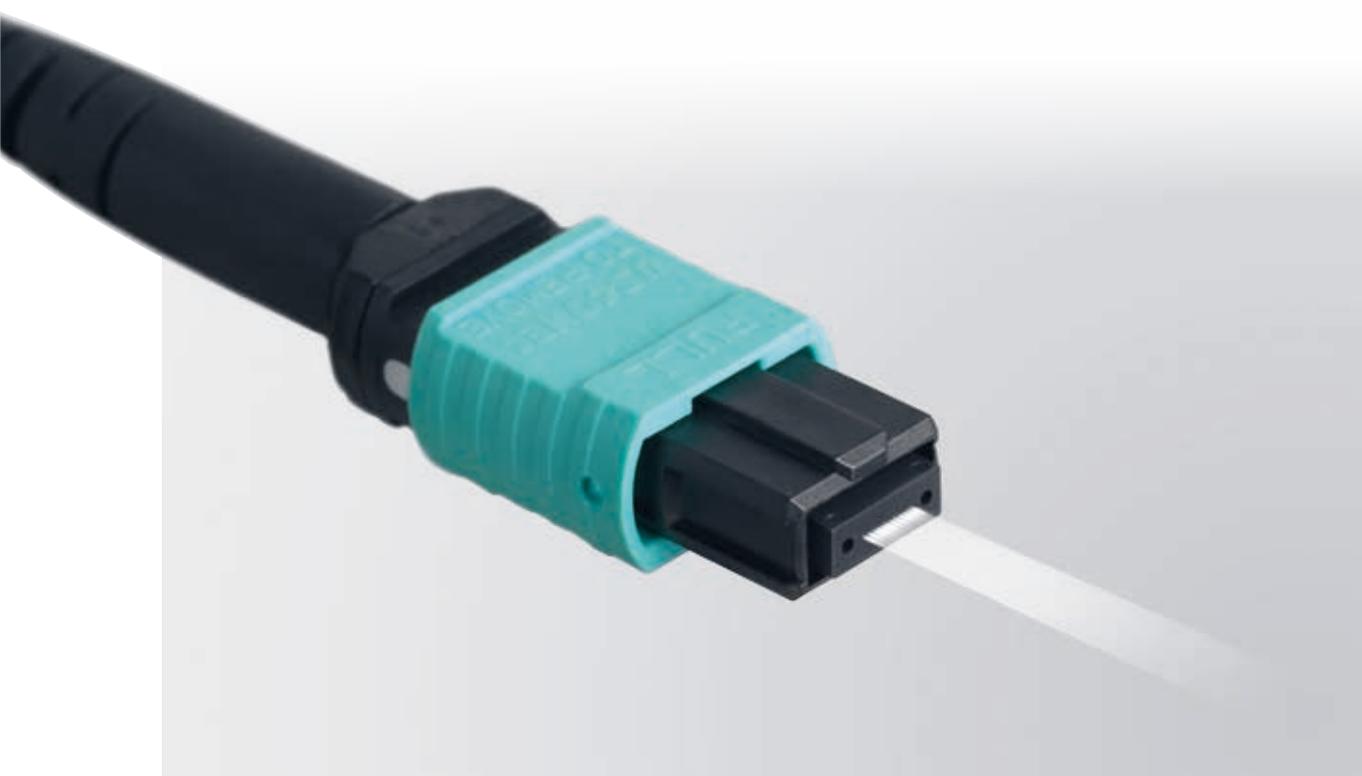
■ 40/100/400 Gigabit ethernet connectivity and cable

Identified by IEEE, TIA and ISO/IEC as the solution for non-duplex applications. The term MPO is the generic name, while the term MTP is a specific higher performance version with lower insertion loss.

MTP connector features:

- a high-speed connection with 12 fibers (2x12 for 24 fibers and with cassettes 8 fibers compatible).
- precise and safe connection.
- optimized cable management.
- high-density fibers.
- scalable system for future upgrades.
- simple maintenance operations.
- ease of extraction. No complex installation on site - plug and play.
- the MTP is a multi-core connector. 1 cable = 1 connector.

With standard active equipment, we need to convert the MTP to LC or SC

Optical performance

MTP* connectors	Multimode Ultra Performance*	Single-mode Ultra Performance*
IL/Master	0.1 dB typical (all fibers) 0.35 dB maximum (single fiber) [2] [3]	0.1 dB typical (all fibers) 0.35 dB maximum (single fiber) [1] [4]
IL Max/Random*	0.35 dB (single fiber)	0.35 dB (single fiber)
Optical return loss[5]	> 20 dB	> 60 dB (8° angle-polished)

[1] As tested in accordance with ANSI/TIA-455-171 Method D3 / IEC 61300-3-4
[2] As tested in accordance with ANSI/TIA-455-171 Method D1 / IEC 61300-3-4
[3] As tested on 50µm fibers at a wavelength of 850 nm in accordance with IEC 61280-4-1
[4] Complies with IEC 61755-3-31/GRADE B
[5] As tested in accordance with IEC 61300-3-6 and ANSI/TIA-455-107A

* Performance is guaranteed only with other components of the same Legrand range (Core, Ultra, and Quantum). Mixing ranges or using other brands' components may lead to a different system performance. The uncertainty value for field measurement with LSPM testing using a reference cord defined in ISO/IEC 14763-3 applies to field testing with proposed Legrand testing cords. Refer to the Fiber Optic Testing Guide for Legrand Solutions.

LC, SC, LC APC, SC APC connectors	Multimode Ultra Performance*	Single-mode Ultra Performance*
IL Max/Master*	0.15 dB	0.15 dB
IL Max/Random ***	0.2 dB	0.25 dB
Typ. IL/Master*	0.08 dB	0.12 dB
Typ. IL/Random ***	0.10 dB	0.12 dB
Return loss (UPC/APC)	> 25 dB	> 55/65 dB

* IEC 61300-3-4

** IEC 61300-3-34

*** Performance is guaranteed only with other components of the same Legrand range (Core, Ultra and Quantum). Mixing ranges or use of components of other brand may lead to a different performance of the system. The uncertainty value for field measurement with LSPM testing using a reference cord defined in ISO/IEC 14763-3 applies to field testing with proposed Legrand testing cords. Refer to the Fiber Optic Testing Guide for Legrand Solutions.

COMMON DATA CENTER APPROACHES

Multimode fiber systems have been the most cost-effective fiber solution to use in the data center because the transceivers are much less costly than single-mode transceivers. Multimode transceivers use a vertical cavity surface emitting laser (VCSEL) light source, which is easy to manufacture and package. Multimode fiber systems have a shorter reach than single-mode systems; however, surveys have shown that more than 80% of data centers links extend to 100m or less. Although single-mode cable is less expensive, after factoring in the total system cost of multimode versus single-mode, multimode is still far more cost-efficient.

Maximum data rate according to fiber type and number of cores used

	OM3	OM4	OM5	OS1a	OS2
2-core	1Gbps: 550m 10Gbps: 300m 25Gbps: 70m 50Gbps: 70m	1Gbps: 550m 10Gbps: 400m 25Gbps: 100m 50Gbps: 100m 100Gbps: 100m	1Gbps: 550m 10Gbps: 400m 25Gbps: 100m 50Gbps: 100m 100Gbps: 100m	1Gbps to 400Gbps: 2km	1Gbps: 5km 10Gbps to 400Gbps: 10km
4-core	100Gbps: 70m	100Gbps: 100m 200Gbps: 100m	100Gbps: 100m 200Gbps: 100m	100Gbps: 500m	100Gbps: 500m
8-core	40Gbps: 100m 100Gbps: 70m 200Gbps: 70m 400Gbps: 100m	40Gbps: 150m 100Gbps: 100m 200Gbps: 100m 400Gbps: 100m	40Gbps: 150m 100Gbps: 100m 200Gbps: 100m 400Gbps: 150m	200Gbps: 500m 400Gbps: 500m 800Gbps: 500m	200Gbps: 500m 400Gbps: 500m 800Gbps: 2km
16-core	400Gbps: 100m 800Gbps: 70m	400Gbps: 100m 800Gbps: 100m	400Gbps: 100m 800Gbps: 100m	800Gbps: 100m 1.6Tbps: 500m	800Gbps: 2km 1.6Tbps: 2km

Data in orange: draft applications (distances may vary at time of publication)

FIBER OPTIC SYSTEM
CASSETTES

■ Slim solutions for greater connectivity

Optimize space and increase the connectivity capacity of your infrastructure with slim cassettes! They are easy to install and maintain from the rear and front, and they are agile and flexible under all circumstances.

- Mounting either on High Density modular panels or in a Zero-U kit.
- Single-mode and multimode MTP solutions that can be mixed on the same support.
- Sliding cassettes individually removable from front and rear: accessible and easily manageable.
- Equipped with extraction button for easy maintenance: reduced time, cost and risk of MAC.
- High-performance with low insertion loss.
- Universal polarity offers flexibility in case of changes.

TYPE	CAT. NO
12 LC OM5 multimode	On demand
12 LC OM4 multimode	0 321 69
12 LC OM3 multimode	0 321 68
12 LC OS2 single-mode	0 321 70
Blanking module	0 321 39

OM4 multimode slim cassette - Cat.No 0 321 69

OS2 single-mode slim cassette - Cat.No 0 321 70
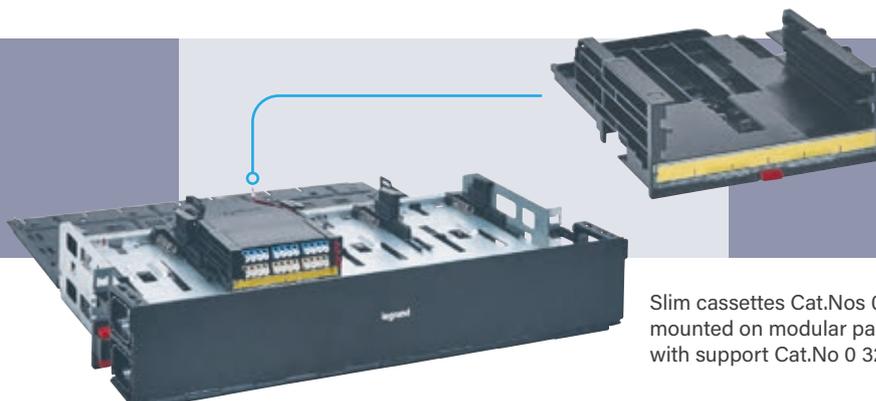
Slim cassettes are to be mounted on HD modular panels with support Cat.No 0 321 38. The support can take up to two slim cassettes.

Slim cassettes Cat.Nos 0 321 69/70 mounted on modular panel Cat.No 0 321 76 with support Cat.No 0 321 38

Ready for
FUTURE APPLICATIONS!

Our on-demand OM5 offer meets all your requirements in terms of connectivity! The infrastructure can easily evolve from 25 G or 50 G to 100 G and to 400 G thanks to parallel and multiplexing applications.

OM5 multimode MTP adaptor

OM5 12 LC multimode block

PERFORMANCE AND WAVELENGTH

OM3 and OM4 fibers are optimized according to the wavelength traditionally used: 850nm.
To accept the four signals used in multimode WDM, OM5 has been redesigned to accept wavelengths from 850nm to 950nm. The diagrams below provide a graphical representation.

**SPLICING
CASSETTE**

**PRETERMINATED
CASSETTE**

**PUSH-BUTTON
CASSETTE**
Fast push-button system
to facilitate upgrade and
maintenance operations

**COPPER
CASSETTE**
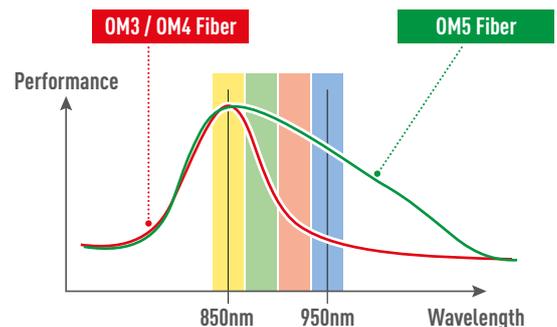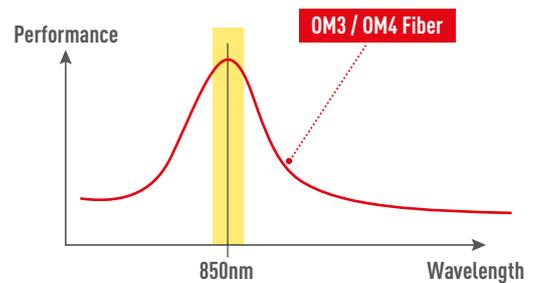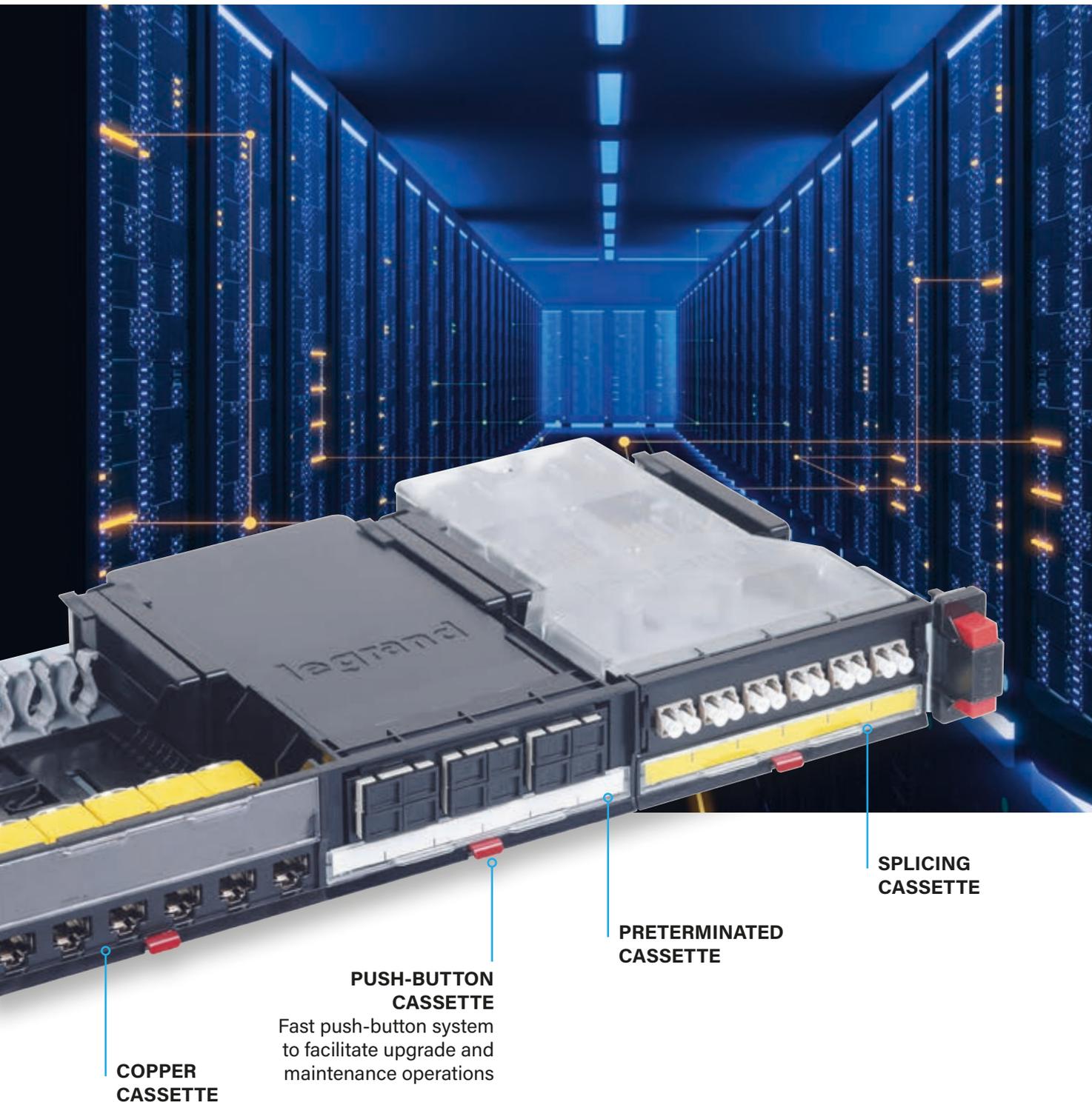
FIBER OPTIC SYSTEM
PANELS

■ Modular panels

- Innovative quick-fixing solution.
- Modular blocks to adapt to modular
  panel or drawer:
  LC, SC, ST, LC, APC, SC APC.
- Possible to add modular blocks,
  blank panel, MTP adaptor.
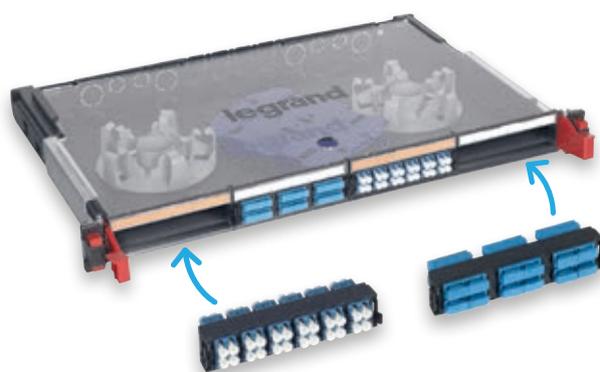
■ HD Modular panels

- Cassettes slide in from front & rear.
- Fast push-button on cassette.
- Splicing cassette which takes all
  modular blocks.
- Mixture of fiber/copper on cassette
  panel.
- Trunk & cord management system.

LCS³ system:
Efficiency

Legrand's LCS³ system offers you copper and fiber optic solutions designed to enhance your infrastructure's efficiency:

▸ 48 ports per unit for high density (Copper system)

▸ 90 LC per unit for high density (Fiber optic system)

▸ 144 LC per Unit for ultra-high density (Copper and Fiber optic systems)

54 | **LCS³ system: Scalability & Maintenance**

COPPER SYSTEM
PATCH PANEL HD SOLUTION UP TO 48 PORTS PER UNIT

High-density patch panel. It has changed from 24 to 48 ports, guaranteeing a reduced space occupied and making future upgrades easier. Designed to house four blocks of 12 connectors each.

Tidy cable management

Single block with 12 connectors

Fast push-button extraction
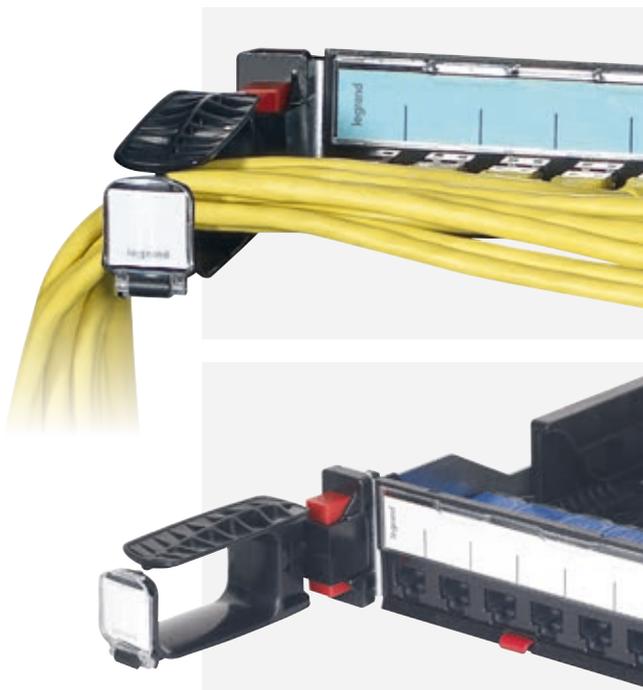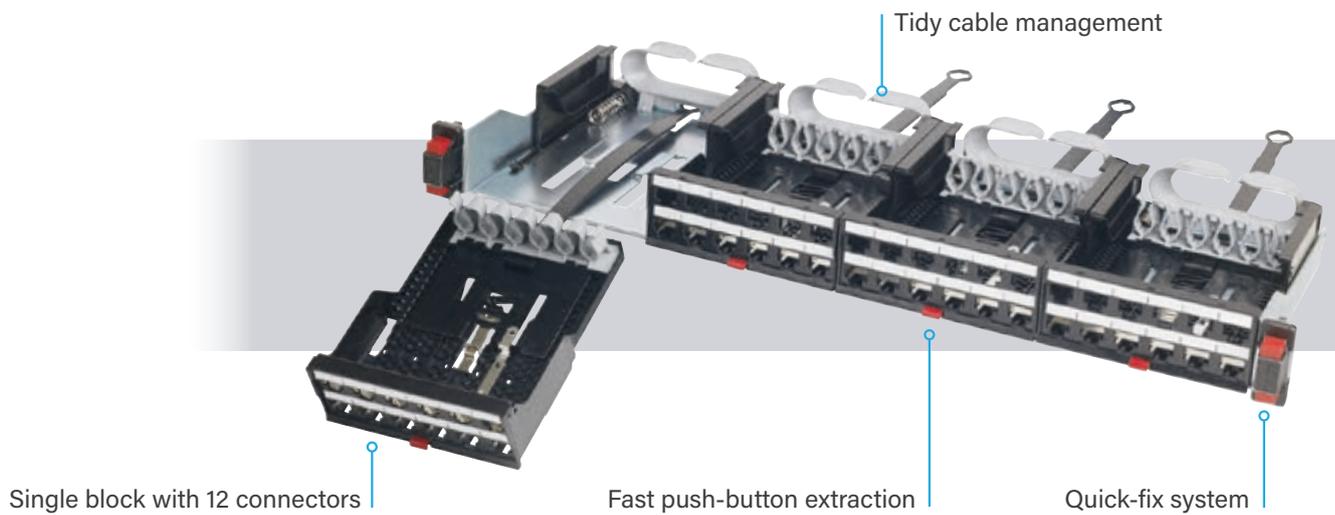
Quick-fix system

■ QUICK-FIX system

Innovative quick-fixing solution:
- Push and connect system.
- Automatic earth connection.
- In-rack cabling optimized.
- Accessory for patch cords with rotating system for angle adjustment and label holder.

Compatible with all panels (flat, angled, HD)

COPPER SYSTEM
PATCH PANELS

The patch panels have been designed and produced to optimize space, with up to 48 ports per unit, and make maintenance and future upgrades easier.
They are available in both flat and angled versions.
They have a quick system for pulling out the unit and an innovative cable guiding system for tidy and easy cable management.

Block of 12 connectors for patch panel

■ Innovative cassettes

- Sliding cassettes: easier maintenance.
- Fast push-button extraction.
- Innovative modular cassette system.
- Easy maintenance: hands-free solution, cassette maintained after extraction.
- **Easy to mix with Legrand fiber optic solutions.**
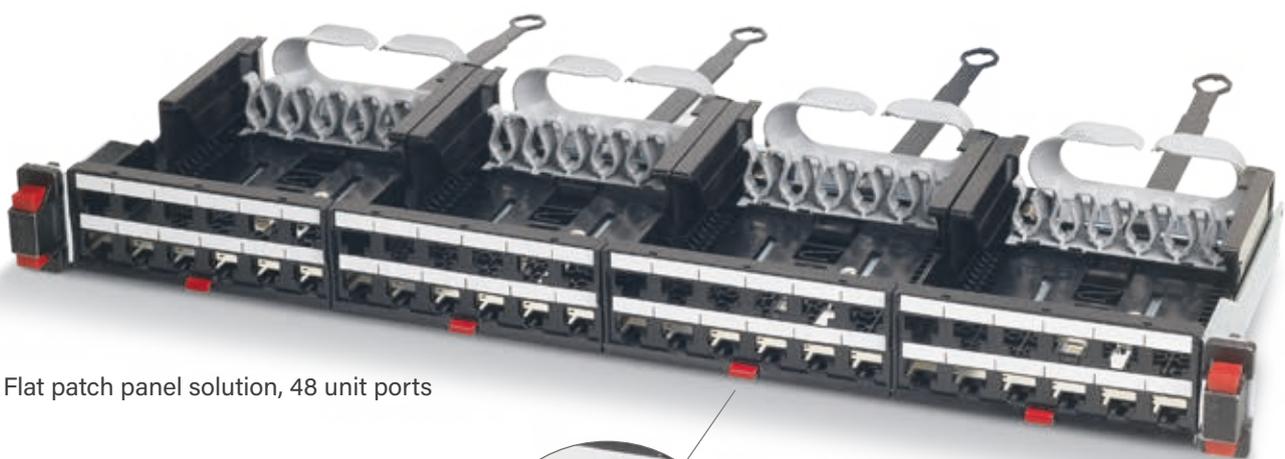
Flat patch panel solution, 48 unit ports

Fast push-button extraction

Strong steel
structure

Cover for airflow
management

Tidy cable
management

Quick-fix
system

High density - This supplies up
to 48 ports in a single unit to
take up less space in the rack

Simple and efficient
identification of the ports
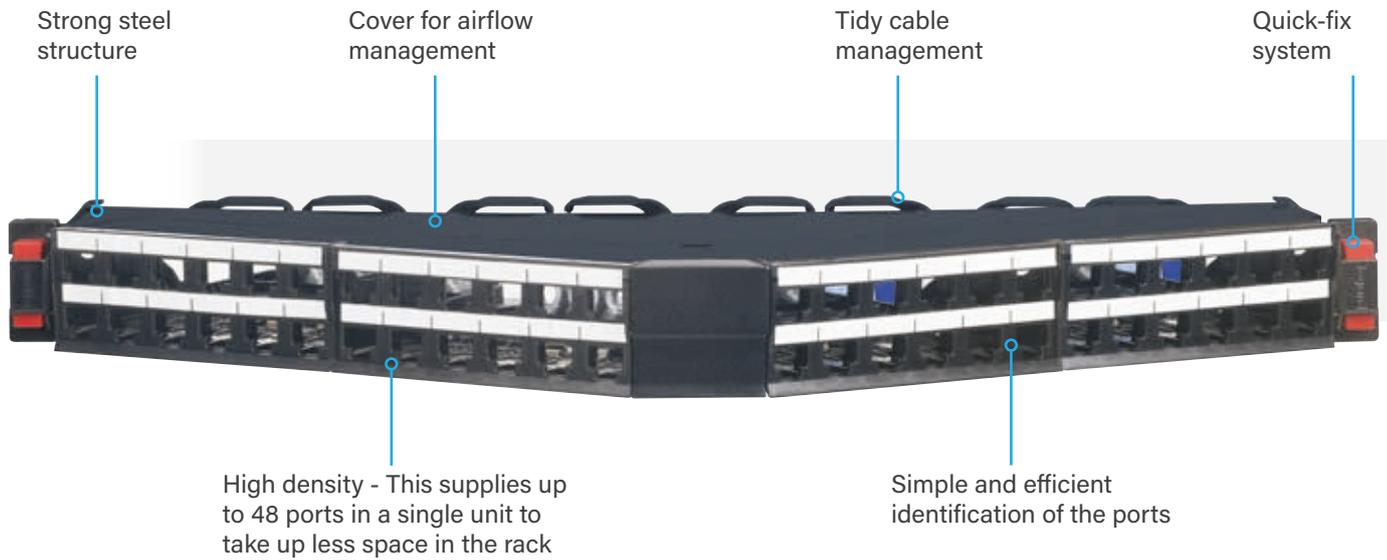
■ Angled patch panel solution from 24 to 48 ports per unit

Patch panels with an angled design allow the cable to run into each side of the rack, creating a correct cable radius of curvature.

This avoids the need to manage the cables horizontally, and allows the patch cords to be carried directly in the vertical cavities.

Also available
in the 24-port version

LCS³ system:
Scalability & Maintenance

Legrand's LCS³ range offers you innovative systems to facilitate wiring and installation, while offering increased data rates with both the copper solution and the fiber optic solution.

COPPER SYSTEM
RJ 45 CONNECTORS

The **TOOLLESS CONNECTORS** with toolless fast connection are available in all categories for installation on patch panels and in the workstation. A perfect connection can be obtained in a few seconds, guaranteeing the optimum performance of the link from the patch panel to the workstation.

The toolless connectors are colour-coded so their category can be safely identified:

■ Cat. 5e: grey

■ Cat. 6: blue

■ Cat. 6A: yellow

■ Cat. 8: aqua
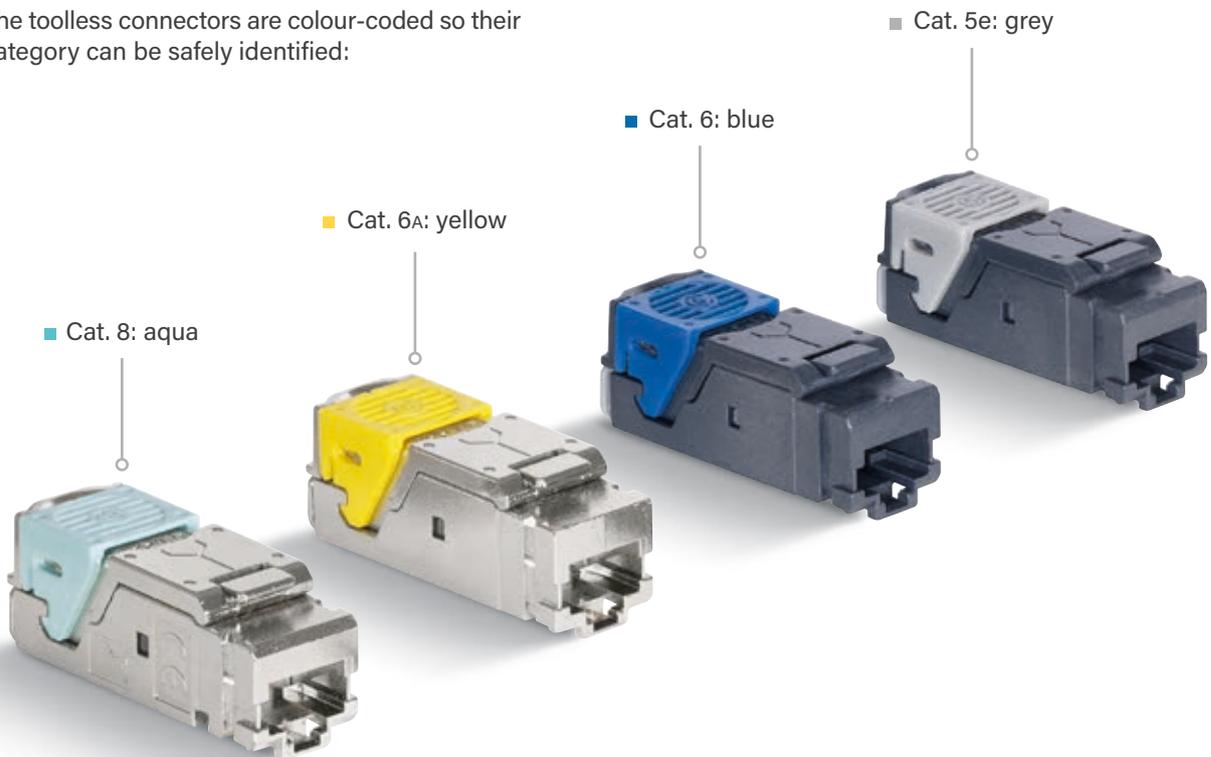
WANT TO KNOW ABOUT PoE AND INCREASE THE POWER OF YOUR NETWORK?

▶ CONTACT YOUR LOCAL SALES REP TO GET OUR PoE INSTALLATION GUIDES!

COPPER SYSTEM
OPTIMUM PERFORMANCE WITH CAT. 8

■ Cat.8 connectors

The toolless Cat. 8 STP connectors with transmission speed (bit rate) from 25 Gbps to 40 Gbps, are integral to the performance of the LCS³ system.

- In accordance with ISO/IEC 11801 series standards.
- Tested up to 2500 connection/disconnection cycles.
- A perfect connection in just a few seconds.
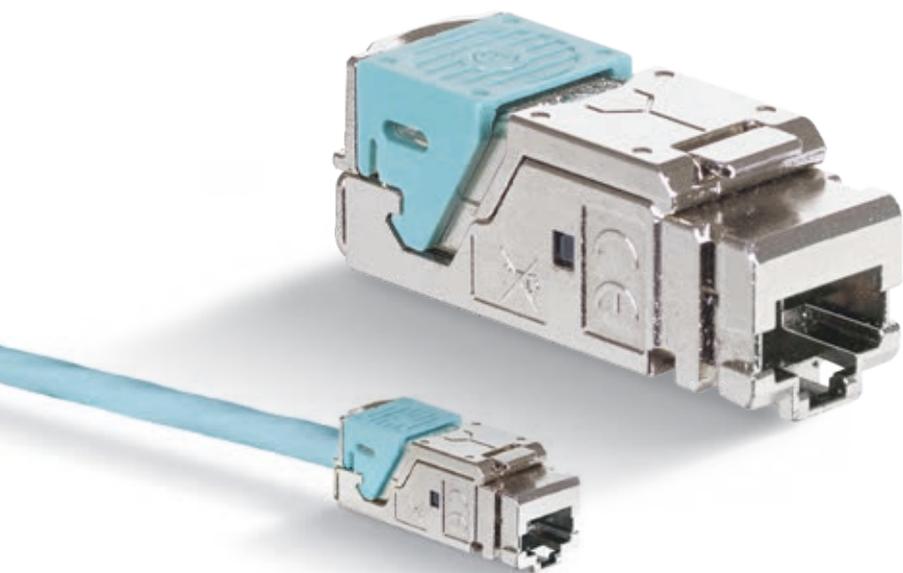
■ Connection & cabling

To maximize performance, combine the Legrand Cat. 8 connector with the Legrand Cat. 8 cable supporting up to 40 Gbps over a single cable.
The Cat. 8 cable is terminated with an improved dedicated RJ45 connector, which can support future performance.
The performance is 4 times better than that of a Cat. 6a cable with up to 2000 MHz bandwidth.

- Double screening to avoid interference and loss of data.
- Dedicated to higher capacity in data centers and equipment rooms.
- Compliant with ISO/IEC 11801 series standards.

Legrand guarantees the following performance on end-to-end links of Cat. 6a/Class Ea:
3dB margin on Channels, on Return Loss (RL) and Near End Cross Talk (NEXT) performance, for the complete frequency range, based on ISO/IEC limits.

- No marginal results (shown with Asterisk on test results) on Permanent Links.
- Valid on standard compliant 2 connectors channels.

Next

Standard limit   LCS³ Guarantee   LCS³ Typical NEXT

Return loss
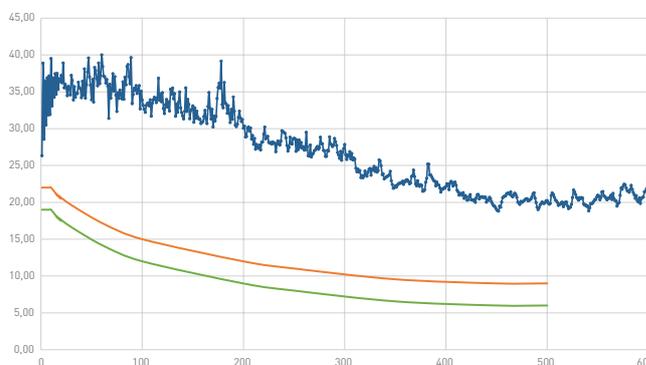
Standard limit   LCS³ Guarantee   LCS³ Typical RL

Applications distances according to category of Cabling

	LCS³ Cat.5e	LCS³ Cat.6	LCS³ Cat.6A	LCS³ Cat.8
Frequency[1]	100MHz	250MHz	500Mhz	2000MHz
Application				
1000Base-T	100m	100m	100m	100m
2.5Gbase-T	Possible[2]	Possible[2]	100m	100m
5Gbase-T	Possible[2]	Possible[2]	100m	100m
10Gbase-T	N/A[4]	Possible[3]	100m	100m
25Gbase-T	N/A[4]	N/A[4]	Possible[5]	30m
40Gbase-T	N/A[4]	N/A[4]	Possible[5]	30m

[1] Maximum frequency defined in the standards

[2] Follow ISO/IEC TR 11801-9904 or TIA TSB 5021 to evaluate the possibility on installed links. Distance will depend on many factors.

[3] Follow ISO/IEC TR 24750 or TIA TSB 155-A to evaluate the possibility on installed links. Distance will depend on many factors.

[4] Not Available.

[5] Follow ISO/IEC TR 11801-9905 to evaluate possibility on installed links. Distance will depend on many factors.

TOOLLESS CONNECTOR CONNECTION PHASES
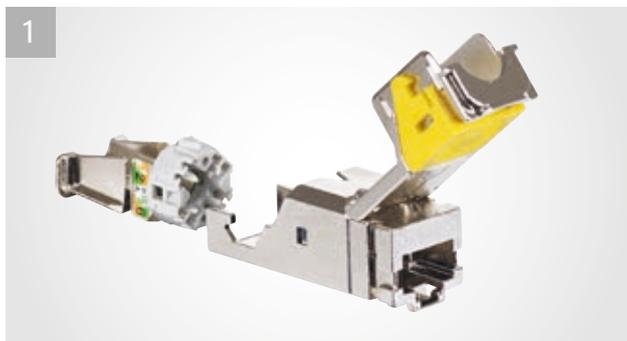
1

Take the wire housing
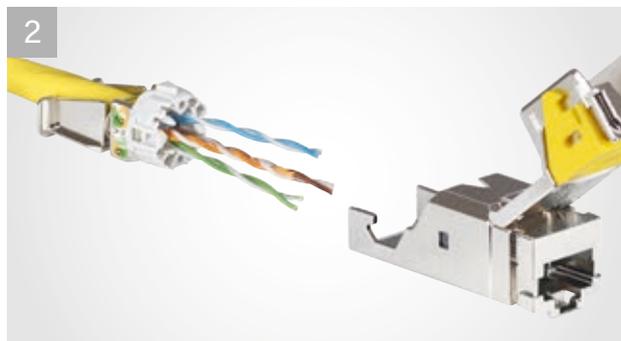
2

Pass the cable through the back of the wire housing
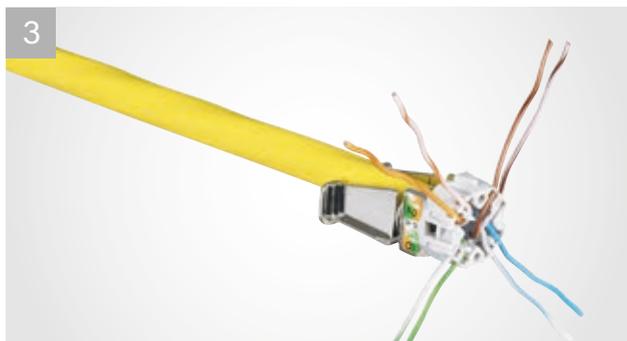
3

Separate and insert the pairs

4

Cut the pairs

5

Install the wire housing without pushing

6

Push down the lever and lock the connector

L1 **legrand**

COPPER SYSTEM
PRE-TERMINATED COPPER TRUNK CABLE SOLUTION

In a data center, copper cables are an ideal solution as they can offer significant advantages in terms of capital expenditures, operating expenditures, and reliability. Pre-terminated copper trunk cables as a structured cabling option for quick and easy deployment in permanent link trunks and equipment port harnesses of data center architectures can be used for interconnect and cross-connect applications.

Tested assemblies
All cable assemblies are tested to ensure that each installation functions properly.

RJ 45 STP-Jacks
High-quality connectors ensure the reliability and stability of the system.

■ **Different trunk solutions are possible for different applications**

● **Jack-to-jack copper trunk**
The use of pre-assembled copper Ethernet trunk cables from Jack to Jack requires the use of empty patch panels at both ends.

● **Plug-to-plug copper trunk**
Plug-to-Plug copper cables are used to establish a direct connection between active devices (e.g. between server and switch). They can also be used in an open workspace as a bundled patch cable group.

● **Jack-to-plug copper trunk**
Jack-to-plug copper cables are used to extend switch ports and for cross-connect connections. They are plugged directly into the active components on one side and require the use of empty patch panels on the other side.

■ Examples of use

● Interconnect

In general data center cabling, copper Ethernet trunk cables provide a permanent connection between patch panels at both ends - one end is in a switch/network cabinet, and the other is in a server cabinet.

Jack-to-jack copper trunk cable

Patch panel
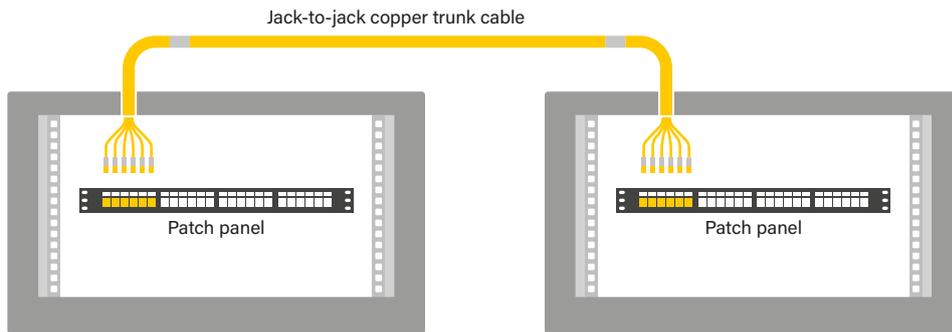
Patch panel

● Cross-connect

Cross-connect cabling usually uses a defined patch area (often with two or more adjacent patch panels) between the control/network cabinet and the server cabinets. Copper patch cables are used to connect the active devices and patch panels at the control/network cabinet, the cross-connect cabinet, and the server cabinet.

Jack-to-jack copper trunk cable

Jack-to-jack copper trunk cable

Patch panel

Patch panel

Patch panel

Patch panel

Patch panel

Patch cords
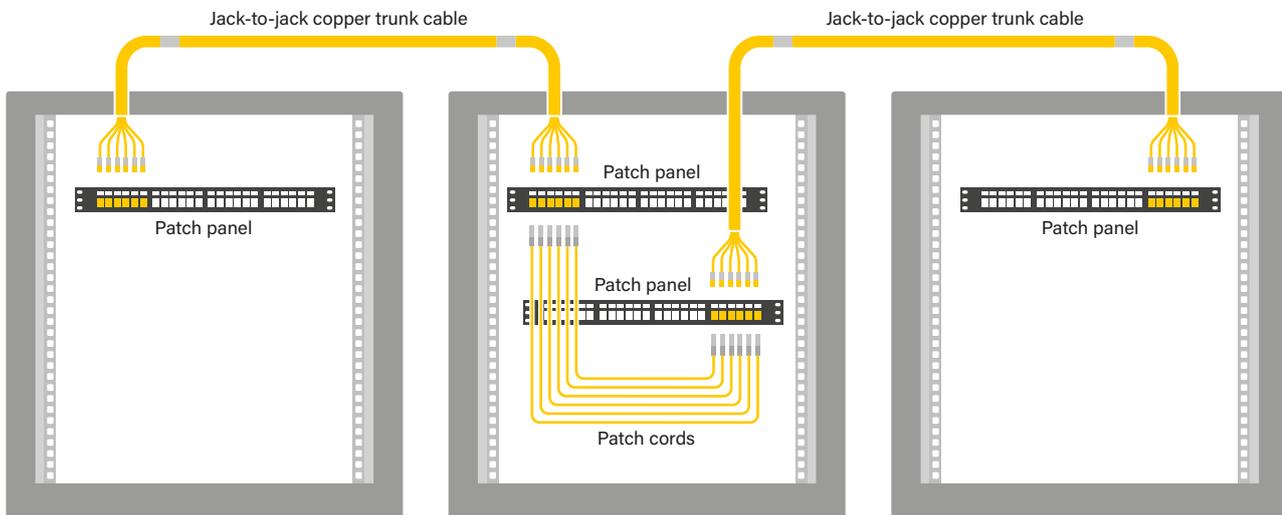
■ Details

● **Use**

- Preterminated trunks made of 6x4 twisted pairs cables and 6 x RJ 45 connectors at each end.
  Designed for ease of installation and space saving in data center environment.
- Delivered with an individual test report.

Nota:
- this solution is not intended for the use of PoE. In the case of PoE, to be installed according to
  ISO/IEC 14763-2 and EN 50174-2. Contact Legrand for any temperature derating calculations
  linked to the environment or PoE.
- maximum patch cord length associated with these pre-terminated trunks: 5m

● **Description**

Preconnectorised solution composed of:
- 1 surgain cable 6 x 4 pairs
- 6 RJ 45 LCS³ connectors at each extremity (protected in bubble bags)
- factory recipe
- cable tracking 1 to 6

● **Installation**
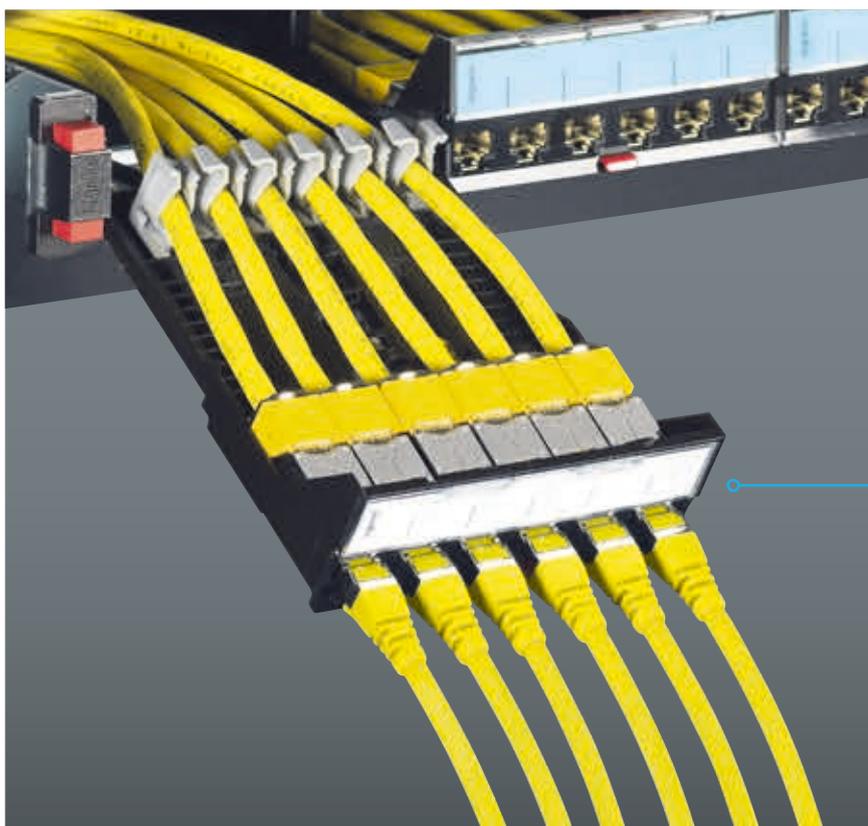
To be installed in LCS³ copper cassette
To be ordered separately

● **Technical, mechanical and electrical features**

Refer to components technical data sheets.

● **Environmental features**

Refer to components technical data sheets.

COPPER SYSTEM
CABLES

The cable is one of the most critical components in horizontal wiring for the performance of the whole link, in terms of both the product's quality and the installation's conformity. Any cable installation error will seriously compromise the performance of the installation. For structured cabling systems, the standard requires the use of category 5e, 6 and 6a (100 MHz, 250 MHz and 500 MHz respectively) twisted, symmetrical 4-pair cables with an impedance of 100 Ω 1).

The cable can be of the following type:

- Unshielded U/UTP (Unshielded Twisted Pairs).
- Shielded F/UTP (Foiled Twisted Pairs).
- Double shielding SF/UTP or S/FTP.

NOTE 1): To date, category 7 is not very widely used, even though it is standardised and can offer high performance levels. It is used for reasons of form factor, cost, and where there are installation difficulties.
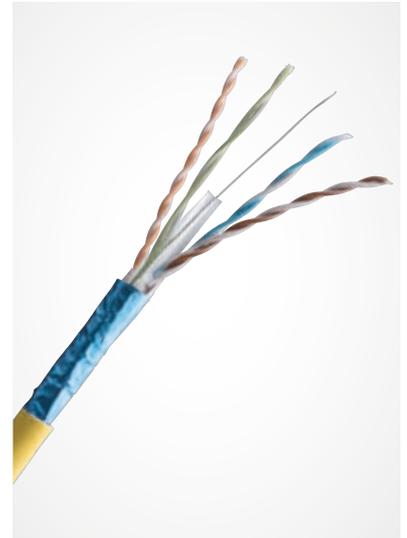
EXAMPLES OF LEGRAND CABLES

	Sheath	Storage/installation temperature	Operating temperature
Cat. 6A F/UTP 100 Ω	LSZH (zero halogen cables) conforming to standard NFC 32062, flame retardant conforming to standards IEC 332-1 and NFC 32070	0 to +50°C	-20 to +60°C
Cat. 6 U/UTP 100 Ω	PVC or LSZH cables conforming to standard NFC 32062, flame retardant conforming to standards IEC 332-1 and NFC 32070	0 to +50°C	-20 to +60°C
Cat. 6 F/UTP 100 Ω	PVC or LSZH cables conforming to standard NFC 32062, flame retardant conforming to standards IEC 332-1 and NFC 32070	0 to +50°C	-20 to +60°C
Cat. 5e U/UTP 100 Ω	PVC or LSZH cables conforming to standard NFC 32062, flame retardant conforming to standards IEC 332-1 and NFC 32070	0 to +50°C	-20 to +60°C

NOTE: For all other types of cable, please contact the Legrand sales network

CPR
CONSTRUCTION PRODUCTS REGULATION

The CPR regulation aims to guarantee the free circulation of products made in the European Union, adopting a harmonised technical language which can define the performance and essential features of all construction products.
Electrical cables are rarely the cause of a fire, but when they are involved, they may form a seriously hazardous component because of their large quantities and because they are found in all rooms of the building. With careful prevention and making state-of-the-art systems with safe and high-quality components in accordance with the CPR regulation, fire propagation, the lack of visibility in smoke-filled rooms, and the diffusion of corrosive and toxic gases can be reduced or almost eliminated.

The CPR regulation (EU 305/2011) concerns all the products made to be permanently incorporated (installed/used) in buildings and other civil engineering works (e.g. homes, industrial and commercial buildings, offices, hospitals, schools, undergrounds, etc.). As part of the features considered important for the safety of constructions included in the CPR, the European Commission has decided to consider cables' Reaction to Fire and Resistance to Fire, recognising the importance of their behaviour and role in fire. The release of harmful substances is one of the performances considered important for cables; however, no minimum performance levels have been established at present because when typically used, the cables do not release harmful substances.
All the cables installed permanently in constructions, to transport power or for telecommunications, of any voltage level and with copper or fiber optic conductors, must be classified based on the classes of premises where they will be installed.

The cables are classified in seven classes of Reaction to Fire: Aca, B1ca, B2ca, Cca, Dca, Eca and Fca identified by the subscript "ca" (cable) as a function of their decreasing performance. As well as this main classification, the European authorities have also regulated the use of the following additional parameters:

▪ **a** = acidity which defines the hazard of the fumes for people and the corrosiveness for things. Varies from a1 to a3
▪ **s** = opaqueness of the smoke. Varies from s1 to s3
▪ **d** = dropping of incandescent particles which could propagate fire. Varies from d0 to d2.

A more severe check (System 1+) is required for the classes from Aca to Cca. It lays down the initial check and continuous monitoring of the product and checks of the manufacturing control system, while for the classes from Dca to Eca the check only lays down the initial product check (System 3). Class F, however, is based on the manufacturer's self-declaration (System 4).

![legrand logo]

Legrand cabling system, LCS³ cat. 8
flat patch panels - equipped and to be equipped

Legrand cabling system, LCS³ cat. 8
angled patch panel to be equipped with connectors

WARRANTY 25 YEARS legrand

Automatic cassette removal

0 337 82

0 337 92

Equipped with new-generation Quick-Fix for automatic (screwless)
mounting on enclosure and cabinet uprights
Universal mounting on all cabinets or enclosures
Panels ensure automatic earthing of each connector
Equipped with four bundles guides fixed at the rear

Pack	Cat.Nos	**Cat. 8 patch panel equipped with 24 RJ 45 connectors**
		19" panel - 1U Equipped with 4 cassettes of 6 pre-fitted Cat. 8 LCS³ RJ 45 connectors Automatic cassette removal by simple pressure Each connector can be removed individually T568A and B marking with colour codes Equipped with rear cable guide to hold cable during maintenance Supplied with coloured labels Compliant with ISO/IEC 11 801, EN 50173 and ANSI/TIA 568 standards
1	0 337 82	**Flat panel** STP panel - Metal shielding - PoE++

Pack	Cat.Nos	**Patch panels 24 connectors - to be equipped**
		19" panels - 1U Equipped with rear cable guide to hold cables during maintenance
1	0 337 90	**Flat panel with empty cassettes to be equipped with connectors** With 4 automatically removable cassettes to be equipped with Cat. 5e to Cat. 8 RJ 45 connectors
1	0 337 91	**Flat panel without connectors to be equipped with cassettes** Can take a maximum of 4 automatically removable cassettes: - copper to be equipped with Cat. 5e to Cat. 8 RJ 45 connectors - fiber optic

Pack	Cat.Nos	**Angled patch panel with 24 connectors**
		19" panel - 1U Equipped with new-generation Quick-Fix for automatic mounting (screwless) on cabinet and enclosure uprights Universal mounting on all cabinets or enclosures Panels ensure automatic earthing of each connector Equipped with rear cable guide to hold cables during maintenance
1	0 337 92	**Angled patch panel to be equipped with connectors** Can take up to 24 Cat. 5e to Cat. 8 RJ 45 connectors

Legrand cabling system, LCS³ cat. 8

connector, cords and cables

0 337 85   0 337 88   0 337 03

Pack	Cat.Nos	
6	0 337 85	**Cat. 8 RJ 45 connector for flat or angled STP panel** Set of 6 STP RJ 45 Quick-connect connectors (no tools required) T568A and B marking with colour codes Compliant with ISO/IEC 11 801, EN 50173 and ANSI/TIA 568 standards To be installed in cassettes for flat panels or directly in an angled panel or a zone distribution box to be equipped
500[1]	0 337 88	**Cat. 8 cable for local networks** Performance 2000 MHz Cable with 4 twisted pairs 100 Ω LSZH sheath: zero halogen EIA/TIA colour code Compliant with ISO/IEC 11 801, EN 50173 and ANSI/TIA 568 standards Product conforming to the CPR regulations **S/FTP - 4 pairs** Length 500 m, supplied on a drum Weight 45 kg
1 1	0 337 03 0 337 04	**Cat. 8 RJ 45 patch cords** RJ 45/RJ 45 - straight Compliant with ISO/CEI 11801 and EIA/TIA 568 standards LSZH ● RAL 6027 **Shielded S/FTP, impedance 100 Ω** Length 2 m Length 3 m
200	0 518 90	**Marking kit** Kit of 200 coloured rings for marking RJ 45 cords 4 colors (green/red/yellow/blue). 50 pieces of each color Rings to be clipped onto the patch cords

1: in metre(s)

Legrand cabling system, LCS³ cat. 8

accessories

0 337 56   0 337 59   0 337 55   0 337 66

0 337 57   0 337 58

Pack	Cat.Nos	
10	0 337 56	**Common accessories for flat and angled panels** **Port blanking modules** Separable blanking plate For covering 1 to 6 ports or 1 to 12 ports individually (High Density solutions)
1	0 337 59	**Cord management** 2 cable guides to be clipped onto new-generation Quick-Fix Provide side cord management Label-holder for identification
1	0 337 55	**Specific accessories for flat panels** **Cassette for flat panels to be equipped** Removable empty cassette to be equipped with connectors, takes 6 Cat. 5e to Cat. 8 connectors Can be removed by simple pressing on the cassette, for ease of installation and maintenance For equipping flat panels
1	0 337 66	**Cassette with shutters for flat panels to be equipped** Removable empty cassette to be equipped with connectors, takes 6 Cat. 5e to Cat. 8 connectors Can be removed by simple pressing on the cassette, for ease of installation and maintenance Equipped with 6 individual shutters to protect RJ 45 connectors contacts For equipping flat panels
1	0 337 57	**Blanking cassette** To be used to fill gaps in the panel
1	0 337 58	**Specific accessory for angled panels** **Cover** Optimises air flow management in the enclosure

Legrand cabling system, LCS³ cat. 6ᴀ
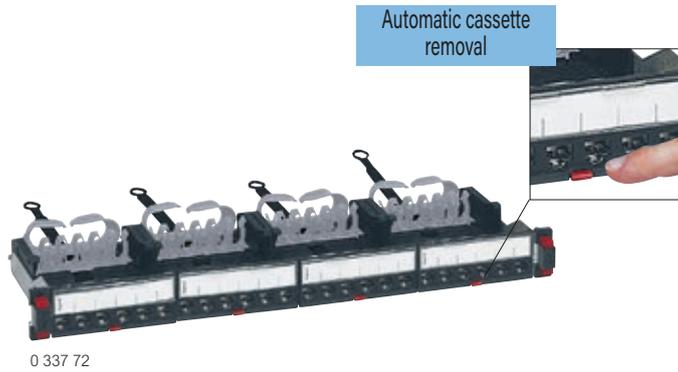
flat patch panels - equipped

Legrand cabling system, LCS³ cat. 6ᴀ

flat patch panels, to be equipped

Automatic cassette removal

0 337 72

0 337 90

0 337 98

0 337 99

Equipped with new-generation Quick-Fix for automatic (screwless) mounting on enclosure and cabinet uprights
Universal mounting on all cabinets or enclosures
Panels ensure automatic earthing of each connector
Equipped with four bundles guides fixed at the rear

Equipped with new-generation Quick-Fix for automatic (screwless) mounting on enclosure and cabinet uprights
Universal mounting on all cabinets or enclosures
Panels ensure automatic earthing of each connector
Equipped with four bundles guides fixed at the rear

Pack	Cat.Nos	**Cat. 6ᴀ patch panels equipped with 24 RJ 45 connectors**
		19" panel - 1U Equipped with 4 cassettes of 6 pre-fitted Cat. 6ᴀ LCS³ RJ 45 connectors Automatic cassette removal by simple pressure Each connector can be removed individually T568A and B marking with colour codes Equipped with rear cable guide to hold cables during maintenance Supplied with coloured labels Compliant with ISO/IEC 11 801, EN 50173 and ANSI/ TIA 568 standards **Flat panels** 24 RJ 45 connectors - 1U - PoE++
1	0 337 70	UTP
1	0 337 72	STP

Pack	Cat.Nos	**19" flat patch panels - to be equipped**
		19" panels - 1U Equipped with rear cable guide to hold cables during maintenance Automatic cassette removal by simple pressure Each connector can be removed individually
		Flat panel with empty cassettes to be equipped with connectors
1	0 337 90	Equipped with 4 automatically removable cassettes, takes up to 24 Cat. 5e to Cat. 8 RJ 45 connectors
		Empty flat panel to be equipped with cassettes
1	0 337 91	Takes a maximum of 4 automatically removable cassettes: - copper to be equipped with Cat. 5e to Cat. 8 RJ 45 connectors - fiber optic
		High Density flat panel with empty cassettes to be equipped with connectors
1	0 337 93	Equipped with 4 High Density cassettes, takes up to 48 Cat. 5e to Cat. 6ᴀ RJ 45 connectors
		10" flat patch panels - to be equipped
		10" panels - 1U
1	0 337 98	Takes up to 6 Cat. 5e to Cat. 8 RJ 45 connectors
1	0 337 99	Takes up to 12 Cat. 5e to Cat. 6ᴀ RJ 45 connectors

Legrand cabling system, LCS³ cat. 6A

angled patch panels to be equipped, connectors

0 337 92

0 337 94

0 337 75

Equipped with new-generation Quick-Fix for automatic (screwless) mounting on enclosure and cabinet uprights.
Universal mounting on all cabinets or enclosures
Panels ensure automatic earthing of each connector
Equipped with four concentric strand guides fixed at the rear

Pack	Cat.Nos	**Angled patch panels - to be equipped**
		19" panels - 1U
1	0 337 92	**Angled patch panel to be equipped with connectors** Takes up to 24 Cat. 5e to Cat. 8 RJ 45 connectors
1	0 337 94	**High Density angled panel to be equipped with connectors** Takes up to 48 Cat. 5e to Cat. 6A RJ 45 connectors
		Cat. 6A High Density RJ 45 connectors Quick-connect connection (no tools required) T568A and B marking with colour codes Compliant with ISO/IEC 11 801, EN 50173 and ANSI/TIA 568 standards To be installed in cassettes for flat panels or directly in an angled panel or a zone distribution box to be equipped Set of 6 RJ 45 connectors
6	0 337 73	UTP
6	0 337 75	STP

Legrand cabling system, LCS³ cat. 6A

accessories

0 337 56   0 337 59   0 337 55   0 337 66

0 337 57   0 337 58

Pack	Cat.Nos	**Common accessories for flat and angled panels**
10	0 337 56	**Port blanking modules** Separable blanking plate For covering 1 to 6 ports or 1 to 12 ports individually (High Density solutions)
1	0 337 59	**Cord management** 2 cable guides to be clipped onto new-generation Quick-Fix Provide side cord management Label-holder for identification
		Specific accessories for flat panels
1	0 337 55	**Cassette for flat panels to be equipped** Removable empty cassette to be equipped with connectors, takes 6 Cat. 5e to Cat. 8 connectors Can be removed by simple pressing on the cassette, for ease of installation and maintenance For equipping flat panels
1	0 337 66	**Cassette with shutters for flat panels to be equipped** Removable empty cassette to be equipped with connectors, takes 6 Cat. 5e to Cat. 8 connectors Can be removed by simple pressing on the cassette, for ease of installation and maintenance Equipped with 6 individual shutters to protect RJ 45 connectors contacts For equipping flat panels
1	0 337 95	**High Density cassette for flat panels to be equipped** Removable empty cassette to be equipped with connectors, takes 12 Cat. 5e to Cat. 6A connectors Can be removed by simple pressing on the cassette, for ease of installation and maintenance For equipping flat panels
1	0 337 57	**Blanking cassette** To be used to fill gaps in the panel
		Specific accessory for angled panels
1	0 337 58	**Cover** Optimises air flow management in the enclosure

cables and cords

0 327 77

0 517 82

Easy grip

Cat. 6ᴀ cables for local networks

Pack	Cat.Nos	
	LSZH 🟡	Performance 500 MHz 4 twisted pair cables, 100 Ω LSZH sheath: zero halogen ANSI/TIA colour code Compliant with ISO/IEC 11 801, EN 50173 and ANSI/ TIA 568 standards Products conforming to the CPR regulations
		U/UTP - 4 pairs
500¹	0 327 87	Length 500 m. Supplied on reel. Weight 35 kg Euroclass Dca
500¹	0 328 28	Length 500m. Supplied on reel. Weight 36 kg Euroclass Cca
500¹	0 328 38	Length 500m. Supplied on reel. Weight 33kg Euroclass B2ca
		F/UTP - 4 pairs
500¹	0 327 78	Length 500 m. Supplied on reel. Weight 29.2 kg Euroclass Dca
		F/UTP - 2 x 4 pairs
500¹	0 328 78	Length 500 m. Supplied on reel. Weight 58 kg Euroclass Dca
		F/FTP - 4 pairs
500¹	0 328 83	Length 500 m. Supplied on reel. Weight 32 kg Euroclass Cca
500¹	0 327 99	Length 500 m. Supplied on reel. Weight 26 kg Euroclass Dca
		F/FTP - 2 x 4 pairs
500¹	0 327 98	Length 500 m. Supplied on reel. Weight 62 kg Euroclass Dca
		U/FTP - 4 pairs
500¹	0 328 84	Length 500 m. Supplied on reel. Weight 39 kg Euroclass Cca

Cat. 7 cables for local networks

Pack	Cat.Nos	
	LSZH 🟡	Performance 600 MHz 4 twisted pair cables, 100 Ω LSZH sheath: zero halogen ANSI/TIA colour code Compliant with ISO/IEC 11 801 and EN 50173 standards Products conforming to the CPR regulations
		S/FTP - 4 pairs
500¹	0 328 82	Length 500 m. Supplied on reel. Weight 33 kg Euroclass B2 ca
500¹	0 328 49	Length 500m. Supplied on reel. Weight 31 kg Euroclass Cca
500¹	0 327 77	Length 500 m. Supplied on reel. Weight 30 kg Euroclass Dca
		S/FTP - 2 x 4 pairs
500¹	0 327 79	Length 500 m. Supplied on reel. Weight 63 kg Euroclass Dca

Cat. 7 indoor/outdoor cable for local networks

Pack	Cat.Nos	
	LSZH 🟡	Performance 600 MHz 4 twisted pair cable, 100 Ω LSZH sheath: zero halogen ANSI/TIA colour code Compliant with ISO/IEC 11 801 and EN 50173 standards Product conforming to the CPR regulations
		S/FTP - 4 pairs - indoor/outdoor
500¹	0 338 90	Length 500 m. Supplied on reel. Weight 26 kg Euroclass Eca

Cat. 6ᴀ RJ 45 patch cords and user cords

Pack	Cat.Nos	
	PVC 🟡	RJ 45/RJ 45 - flat With special "easy grip" plug Compliant with ISO/IEC 11 801, EN 50173 and ANSI/ TIA 568 standards
		Unscreened U/UTP, impedance 100 Ω
1	0 518 82	Length 1 m
1	0 518 83	Length 2 m
1	0 518 84	Length 3 m
1	0 518 85	Length 5 m
	LSZH 🔴	
1	0 518 78	Length 1 m
1	0 518 79	Length 2 m
1	0 518 80	Length 3 m
1	0 518 81	Length 5 m
	🟢	
1	0 518 74	Length 1 m
1	0 518 75	Length 2 m
1	0 518 76	Length 3 m
1	0 518 77	Length 5 m
	PVC 🟡	**Shielded S/FTP, impedance 100 Ω**
1	0 518 48	Length 0.3 m
1	0 518 16	Length 0.5 m
5	0 517 80	Length 1 m
5	0 517 81	Length 2 m
5	0 517 82	Length 3 m
5	0 517 83	Length 5 m
1	0 518 49	Length 10 m
	LSZH 🔴	
1	0 518 70	Length 1 m
1	0 518 71	Length 2 m
1	0 518 72	Length 3 m
1	0 518 73	Length 5 m
	🟢	
1	0 518 66	Length 1 m
1	0 518 67	Length 2 m
1	0 518 68	Length 3 m
1	0 518 69	Length 5 m

Cat. 6ᴀ RJ 45 patch cords and user cords - High Density

Pack	Cat.Nos	
	LSZH 🟡	RJ 45/RJ 45 - flat With special "easy grip" plug Compliant with ISO/IEC 11 801, EN 50173 and ANSI/ TIA 568 standards
		Shielded S/FTP, impedance 100 Ω
1	0 515 50	Length 0.5 m
1	0 515 51	Length 1 m
1	0 515 52	Length 2 m
1	0 515 53	Length 3 m
1	0 515 54	Length 5 m

Marking kit

Pack	Cat.Nos	
200	0 518 90	Kit of 200 coloured rings for marking RJ 45 cords 4 colors (green/red/yellow/blue). 50 pieces of each color Rings to be clipped onto the patch cords

1: in metre(s)

Legrand cabling system, LCS³ fiber optic

19" fiber optic drawers

0 321 62

0 321 72

0 321 00

0 321 01

0 321 15

0 321 34

0 321 11

Pack	Cat.Nos	**Equipped 19" fiber optic drawers**
		Metal 19" pre-equipped fiber optic drawers, 4 cable entries, supplied with screw fixing kit, 2 cable glands (Ø 13.5 and 16 mm), coiling system and splice cassette Panel and optical ports marked on dedicated marking area **Sliding** End stop at a 30° angle Maximum capacity: 48 fibers in LC version, 24 fibers in ST and SC versions Depth 220 mm, height 1 U
1	0 321 61	SC duplex for 24 multimode fibers
1	0 321 62	LC duplex for 48 multimode fibers
1	0 321 63	ST duplex for 24 multimode fibers
1	0 321 64	SC duplex for 24 single-mode fibers
1	0 321 65	LC duplex for 48 single-mode fibers
1	0 321 66	SC APC duplex for 24 single-mode fibers
1	0 321 67	LC APC duplex for 48 single-mode fibers
		Rotating Supplied with reversible left or right opening Maximum capacity: 72 fibers in LC version, 36 fibers in SC version Depth 260 mm, height 1 U
1	0 321 71	LC duplex for 72 multimode fibers
1	0 321 72	SC duplex for 36 multimode fibers
1	0 321 73	LC duplex for 72 single-mode fibers
1	0 321 74	SC duplex for 36 single-mode fibers
		Flat and angled 19" modular fiber optic drawers Metal 19" modular fiber optic drawers, 8 cable entries, supplied with 2 cable glands (Ø 13.5 and 9 mm), coiling system Equipped with the new-generation Quick-Fix system for automatic (screwless) mounting on enclosure or cabinet uprights Supplied with numbered labels Maximum capacity: 96 fibers in LC version, 48 in SC version or 24 in ST version Depth 290 mm, height 1U **Sliding, equipped** End stop at a 20° angle
1	0 321 02	SC duplex for 24 multimode fibers
1	0 321 04	LC duplex for 48 multimode fibers
1	0 321 06	SC duplex for 24 single-mode fibers
		Sliding, to be equipped with fiber optic blocks Takes any fiber optic block, up to 4 blocks maximum. End stop at a 20° angle
1	0 321 00	Empty drawer
		Sliding, to be equipped with fiber optic blocks - angled Takes any fiber optic block, up to 4 blocks maximum. End stop at a 20° angle
1	0 321 01	Empty drawer

Pack	Cat.Nos	**Fiber optic blocks**
		To be clipped directly onto modular fiber optic drawers to be equipped Cat.Nos 0 321 00/01 or onto fiber optic splice cassette Cat.No 0 321 41 **Single-mode fiber blocks (9/125 µm)**
1	0 321 17	ST block for 6 single-mode fibers
1	0 321 10	SC duplex block for 6 single-mode fibers
1	0 321 11	SC duplex High Density block for 12 single-mode fibers
1	0 321 12	SC APC duplex block for 6 single-mode fibers
1	0 321 13	LC duplex block for 6 single-mode fibers
1	0 321 14	LC duplex block for 12 single-mode fibers
1	0 321 15	LC duplex High Density block for 24 single-mode fibers
1	0 321 16	LC APC duplex block for 12 single-mode fibers
1	0 321 33	Single-mode 4 MTP[1] feedthrough adaptor, key up/key down
1	0 321 19	Single-mode 8 MTP[1] feedthrough adaptor, key up/key down
		Multimode fiber blocks (62.5 and 50/125 µm)
1	0 321 27	ST block for 6 multimode fibers
1	0 321 20	SC duplex block for 6 multimode fibers
1	0 321 21	SC duplex High Density block for 12 multimode fibers
1	0 321 23	LC duplex block for 6 multimode fibers
1	0 321 24	LC duplex block for 12 multimode fibers
1	0 321 25	LC duplex High Density block for 24 multimode fibers
1	0 321 34	Multimode 4 MTP[1] feedthrough adaptor, key up/key down
1	0 321 18	Multimode 8 MTP[1] feedthrough adaptor, key up/key down
1	0 321 36	LC duplex block for 6 multimode fibers - aqua
1	0 321 37	LC duplex block for 12 multimode fibers - aqua
		RJ 45 copper block for fiber optic drawer
1	0 321 32	To be clipped directly onto modular fiber optic drawers to be equipped Cat.Nos 0 321 00/01 Allows the mixing of fiber optic and copper Takes up to 5 RJ 45 connectors
		Accessories for fiber optic drawer to be equipped **Accessory for receipt of a fan-out**
1	0 321 28	To be clipped onto the back of the drawer Enables the entry of preterminated links
		Blanking plate
1	0 321 29	Blanking plate
		Cassette for pigtails
1	0 321 30	Capacity: 24 fibers
		Coiling kit
1	0 321 31	1 accessory

1: MTP is a registered trademark of US Conec Ltd

Legrand cabling system, LCS³ fiber optic

19" High Density fiber optic panels (1/2/4 U) and patching kits

Panel 0 321 76 equipped with support 0 321 38
and slim cassettes 0 321 69/70

0 321 38

0 321 69

OM5 on request

0 321 70

Pack	Cat.Nos	
		19" High Density fiber optic panels
		Panels to be equipped with cassettes
		Equipped with Quick-Fix system for automatic (screwless) mounting on enclosure or cabinet uprights
		To be equipped directly with a maximum of 4 automatically removable cassettes or 4 supports for slim cassettes Cat. No 0 321 38 per U
		Maximum capacity per U: 48 fibers in SC version, 24 fibers in ST version or 96 fibers in LC version
		2U and 4U versions equipped with door and cord management at the front, and with cable management at the back
1	0 321 75	1 U height, depth 182 mm
1	0 321 76	2 U height, depth 393 mm
1	0 321 77	4 U height, depth 393 mm
		Accessories for panels
1	0 321 78	Front cord management kit for 1 U panel
		Fits on 1 U modular panel Cat.No 0 321 75
		2 side cord guides and front door with integrated marking to ensure correct front and side cord management
		Cord holder to be mounted on cassette to make it easier to pass cords through the side
1	0 321 46	Rear cable management accessory
		Fits on 1 U panel Cat. No 0 321 75
1	0 321 28	Accessory for receipt of a fan-out
		To be clipped onto the back of the drawer
		Enables the entry of preterminated links
1	0 321 22	Copper cable management accessory
4	0 321 26	Set of 4 cord holders
		To be mounted on any cassette to make it easier to pass cords through the side
1	0 321 05	Rear accessory for fixing 4 cable glands

Pack	Cat.Nos	
		Ultra™ preterminated MTP¹ High Density cassettes (MPO compatible)
		For installation in modular panels
		Cat. Nos 0 321 75/76/77 and in Zero-U kit Cat. No 0 321 03
		Slim cassettes to be installed with support Cat. No 0 321 38
		Sliding cassettes which can be removed automatically by simply pressing them, simplifying installation and maintenance
		Removable from the front and back
		Multimode - Insertion Loss Max/Random²: 0.55 dB
		Single-mode - Insertion Loss Max/Random²: 0.6 dB
		Prewired, equipped at the rear with one or two male MTP¹ connectors with 12 fibers
		LC or SC connectors at the front
		Ultra™ cassettes
1	0 321 42	Multimode OM4 cassette (50/125 µm) 24 LC fibers, A/C polarity
1	0 321 48	Multimode OM4 cassette (50/125 µm) 12 LC fibers, A/C polarity
1	0 321 43	Multimode OM4 cassette (50/125 µm) 12 SC fibers, A/C polarity
1	0 321 59	Multimode OM4 cassette (50/125 µm) 12 SC fibers, universal
1	0 321 44	Single-mode OS2 cassette (9/125 µm) 24 LC fibers, A/C polarity
1	0 321 49	Single-mode OS2 cassette (9/125 µm) 12 LC fibers, A/C polarity
1	0 321 45	Single-mode OS2 cassette (9/125 µm) 12 SC fibers, A/C polarity
1	0 321 60	Single-mode OS2 cassette (9/125 µm) 12 SC fibers, universal

1: MTP is a registered trademark of US Conec Ltd
2: When mated with the same Legrand range (Ultra & Core) trunks and patch cords

Pack	Cat.Nos	
		Preterminated MTP¹ High Density cassettes (MPO compatible) (continued)
		Ultra™ slim cassettes
1	0 321 38	Support for High Density slim cassettes
		Takes up to 2 High Density slim cassettes Cat.Nos 0 321 68/69/70 and up to 2 blanking cassettes Cat.No 0 321 39 or 1 cassette + 1 blanking cassette
		Possibility to mix slim single-mode and multimode cassettes on the same support
1	0 321 69	Slim multimode OM4 cassette (50/125 µm) 12 LC fibers, Universal polarity
1	0 321 68	Slim multimode OM3 cassette (50/125 µm) 12 LC fibers, Universal polarity
1	0 321 70	Slim single-mode OS2 cassette (9/125 µm) 12 LC fibers, Universal polarity
1	0 321 39	Slim blanking module to be mounted (x2) on support Cat.No 0 321 38 to fill gaps in the panel
		Core™ pre-equipped cassettes
		For installation in modular panels
		Cat. Nos 0 321 75/76/77 and Zero-U kit Cat.No 0 321 03
		Pre-equipped cassettes with fitted fiber optic block + sets of 6 or 12 OM3 pigtails
		Sliding cassettes which can be removed automatically by simply pressing them, simplifying installation and maintenance
		Removable from the front
		Pre-equipped cassettes for multimode installation (50/125 µm)
1	0 321 80	Equipped with 1 SC duplex block for 6 fibers
1	0 321 81	Equipped with 1 LC duplex block for 6 fibers
1	0 321 82	Equipped with 1 SC duplex block for 12 fibers
1	0 321 83	Equipped with 1 LC duplex block for 12 fibers
		Pre-equipped cassettes for single-mode installation (9/125 µm)
1	0 321 84	Equipped with 1 SC duplex block for 6 fibers
1	0 321 85	Equipped with 1 LC duplex block for 6 fibers
1	0 321 86	Equipped with 1 SC duplex block for 12 fibers
1	0 321 87	Equipped with 1 LC duplex block for 12 fibers
		Cassettes to be equipped and blanking plate
		For installation in modular panels
		Cat. Nos 0 321 75/76/77 and Zero-U kit Cat. No 0 321 03
		Sliding cassettes which can be removed automatically by simply pressing them, simplifying installation and maintenance
		Removable from the front
		Fiber optic splice cassette
1	0 321 41	Takes any modular fiber optic block
		Blanking cassette
1	0 337 57	To be used to fill gaps in the panel
		Copper cassette to be equipped
1	0 321 55	Takes six Cat. 5e, 6 and 6ᴀ copper connectors
		Patching kits
		1 U to 4 U patching kit
1	0 321 89	Compatible with all LCS³ fiber optic and copper 19" panels
		Supplied with top protection, cable guides and specific accessories for installation on cable trays, wire meshed cable trays (Cablofil) and cabinets
		Zero-U patching kit
1	0 321 03	To bring few fiber optic or copper connections outside 19'' panels
		Takes 1 cassette (fiber optic preterminated cassettes, pre equipped cassettes, fiber optic splice cassette or RJ 45 copper cassette)
		Supplied with a comprehensive range of accessories for fixing in or outside enclosures (raised access floors, cable trays, walls, ceiling)

19" UHD¹ fiber optic drawers

0 321 50

0 321 90
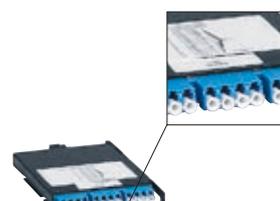
0 321 55

0 321 56

0 321 94

Pack	Cat.Nos	
		UHD¹ modular fiber optic drawers, to be equipped with 12-fiber cassettes
		Fixed modular chassis for holding cassettes 4 U maximum capacity (holds up to 48 cassettes): 576 LC fibers 2 U maximum capacity (holds up to 24 cassettes): 288 LC fibers 1 U maximum capacity (holds up to 12 cassettes): 144 LC fibers
		Fiber optic drawer with cord management at the front for 12-fiber cassettes
1	0 321 51	1 U
		Fiber optic drawers with cord management at the front and back for 12-fiber cassettes Depth: 595 mm
1	0 321 50	1 U
1	0 321 52	2 U
1	0 321 53	4 U
		UHD¹ 12-fiber cassettes
		Clip directly into fiber optic drawers Cat.Nos. 0 321 50/51/52/53 Cassettes slide into above chassis Cassettes can be removed from the front and back MPO high-performance cassettes Low insertion loss < 0.35 dB A/C polarity
		Multimode OM4 cassettes (50/125 µm) For 50/125 µm multimode installation, OM4 type
1	0 321 54	MPO cassette (MTP² compatible) 12 OM4 LC fibers, polarity A/C
		Single-mode OS2 cassette (9/125 µm) For 9/125 µm single-mode installation, OS2 type
1	0 321 55	MPO cassette (MTP² compatible) 12 OS2 LC fibers, polarity A/C
		Adaptors for 12-fiber UHD¹ installation
		Clip into UHD¹ fiber optic drawers for 12-fiber cassettes Cat.Nos 0 321 50/51/52/53
		MPO adaptors (MTP² compatible)
	0 321 56	Multimode 4 MTP² adaptor - key up/key down
1	0 321 57	Single-mode 4 MTP² adaptor - key up/key down
		LC adaptor
1	0 321 58	12 LC multimode adaptor

Pack	Cat.Nos	
		UHD¹ modular fiber optic drawers, to be equipped with 8-fiber cassettes
		Fixed modular chassis for holding cassettes 4 U maximum capacity (holds up to 72 cassettes): - 576 LC fibers 2 U maximum capacity (holds up to 36 cassettes): - 288 LC fibers 1 U maximum capacity (holds up to 18 cassettes) - 144 LC fibers
		Fiber optic drawers with cord management at the front and back for 8-fiber cassettes Depth: 595 mm
1	0 321 90	1 U
1	0 321 91	2 U
1	0 321 92	4 U
		UHD¹ 8-fiber cassettes
		Clip directly into fiber optic drawers Cat.Nos. 0 321 90/91/92 Cassettes slide into above chassis Cassettes can be removed from the front and back MPO high-performance cassettes Low insertion loss < 0.35 dB Universal polarity
		Multimode OM4 cassettes (50/125 µm) For 50/125 µm multimode installation, OM4 type
1	0 321 93	MPO cassette (MTP² compatible) 8 OM4 LC fibers, universal polarity
		Single-mode OS2 cassette (9/125 µm) For 9/125 µm single-mode installation, OS2 type
1	0 321 94	MPO cassette (MTP² compatible) 8 OS2 LC fibers, universal polarity
		Adaptors for 8-fiber UHD¹ installation
		Clip into UHD¹ fiber optic drawers for 8-fiber cassettes Cat.Nos 0 321 90/91/92
		MPO adaptors (MTP² compatible)
1	0 321 95	Multimode 4 MTP² adaptor - key up/key down
1	0 321 96	Single-mode 4 MTP² adaptor - key up/key down
		LC adaptors
1	0 321 97	8 LC multimode adaptor
1	0 321 98	8 LC single-mode adaptor
1	0 321 99	8 LC-APC single-mode adaptor

1: Ultra High Density
2: MTP is a registered trademark of US Conec Ltd

Legrand cabling system, LCS³ fiber optic

cables
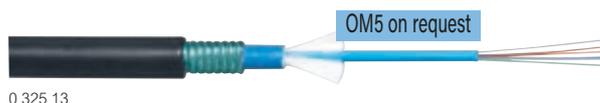
OM5 on request

0 325 13

0 325 10

0 326 66

Colour code: FOTAG
Compliant with EN 50173-2 and ISO IEC 11801 standards
Packed on a 2000 m reel except for tight-buffer OM4
Tight-buffer: "easy strip"
Other configurations on request

Single-mode OS2 fiber optic cables (9/125 µm) - (OS1 compatible)

For 9/125 µm single-mode installations, OS2 type

Indoor/Outdoor
Yellow LSZH sheath
Glass strands

Pack	Loose tube	Tight-buffer 900 µm	
2000¹	0 325 02		4 fibers - Euroclass Dca
2000¹	0 325 12		6 fibers - Euroclass Dca
2000¹	0 325 03		8 fibers - Euroclass Dca
2000¹	0 325 14	0 325 50	12 fibers - Euroclass Dca
2000¹	0 325 26		12 fibers - Euroclass Cca
2000¹	0 325 51		24 fibers - Euroclass Dca
1000¹	0 325 18		24 fibers - Euroclass Cca

Outdoor
Black PE sheath
Glass strands for rodent-proofing, reinforced with corrugated steel

Pack	Loose tube		
2000¹	0 325 23		4 fibers
2000¹	0 325 13		6 fibers
2000¹	0 325 24		8 fibers
2000¹	0 325 15		12 fibers
2000¹	0 325 25		24 fibers

Multimode OM4 fiber optic cables (50/125 µm)

For 50/125 µm multimode installations, OM4 type
Suitable for 10 Gb Ethernet networks
Bend insensitive

Indoor/Outdoor
Aqua LSZH sheath
Glass strands

Pack	Loose tube	Tight-buffer 900 µm	
2000¹	0 325 43		4 fibers - Euroclass Dca
500¹		0 326 65	6 fibers - Euroclass Dca - 500 m drum
1000¹		0 326 66	6 fibers - Euroclass Dca - 1000 m drum
2000¹	0 325 44		8 fibers - Euroclass Dca
2000¹	0 325 45		12 fibers - Euroclass Dca
2000¹	0 325 49		12 fibers - Euroclass Cca
1000¹		0 326 67	12 fibers - Euroclass Dca - 1000 m drum
1000¹		0 326 68	24 fibers - Euroclass Dca - 1000 m drum
1000¹	0 325 19		24 fibers - Euroclass Cca - 1000 m drum

Outdoor
Black PE sheath
Glass strands for rodent-proofing, reinforced with corrugated steel

Pack	Loose tube		
2000¹	0 325 46		4 fibers
2000¹	0 325 47		8 fibers
2000¹	0 325 48		12 fibers

Multimode OM3 fiber optic cables (50/125 µm)

For 50/125 µm multimode installations, OM3 type
Suitable for 10 Gb Ethernet networks
Bend insensitive

Indoor/Outdoor
Aqua LSZH sheath
Glass strands
Euroclass Dca

Pack	Loose tube	Tight-buffer 900 µm	
2000¹	0 325 37		4 fibers
2000¹		0 325 10	6 fibers
2000¹	0 325 38		8 fibers
2000¹	0 325 39	0 325 11	12 fibers
2000¹	0 325 53	0 325 52	24 fibers

Outdoor
Black PE sheath
Glass strands for rodent-proofing, reinforced with corrugated steel

Pack	Loose tube		
2000¹	0 325 40		8 fibers
2000¹	0 325 41		12 fibers
2000¹	0 325 42		24 fibers

1: in metre(s)

Legrand cabling system, LCS³ fiber optic
preterminated links

OM4 and OM5 on request

1 320 41
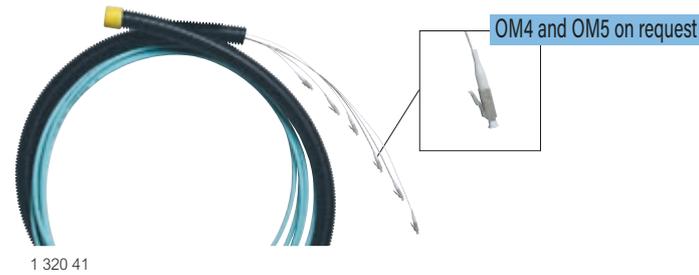
Supplied with pulling element. In coil up to 50 m, on a small drum between 51 m and 150 m, on a large drum over 151 m and up to 200 m
Connection in fiber optic drawers. OM3 aqua LSZH sheaths. Supplied with test reports
Possible to obtain customised preterminated links: cable type, structure, length, connector type, etc

Pack	Cat.Nos	**Core™ SC/SC tight-buffer OM3 links**
		6 SC simplex - 6 SC simplex
1	1 320 01	Length 10 m
1	1 320 02	Length 20 m
1	1 320 03	Length 30 m
1	1 320 04	Length 40 m
1	1 320 05	Length 50 m
1	1 320 06	Length 60 m
1	1 320 07	Length 70 m
1	1 320 08	Length 80 m
1	1 320 09	Length 90 m
1	1 320 10	Length 100 m
1	1 320 12	Length 120 m
1	1 320 14	Length 140 m
1	1 320 16	Length 160 m
1	1 320 18	Length 180 m
1	1 320 20	Length 200 m
		12 SC simplex - 12 SC simplex
1	1 320 21	Length 10 m
1	1 320 22	Length 20 m
1	1 320 23	Length 30 m
1	1 320 24	Length 40 m
1	1 320 25	Length 50 m
1	1 320 26	Length 60 m
1	1 320 27	Length 70 m
1	1 320 28	Length 80 m
1	1 320 29	Length 90 m
1	1 320 30	Length 100 m
1	1 320 32	Length 120 m
1	1 320 34	Length 140 m
1	1 320 36	Length 160 m
1	1 320 38	Length 180 m
1	1 320 40	Length 200 m

Pack	Cat.Nos	**Core™ LC/LC tight-buffer OM3 links**
		6 LC simplex - 6 LC simplex
1	1 320 41	Length 10 m
1	1 320 42	Length 20 m
1	1 320 43	Length 30 m
1	1 320 44	Length 40 m
1	1 320 45	Length 50 m
1	1 320 46	Length 60 m
1	1 320 47	Length 70 m
1	1 320 48	Length 80 m
1	1 320 49	Length 90 m
1	1 320 50	Length 100 m
1	1 320 52	Length 120 m
1	1 320 54	Length 140 m
1	1 320 56	Length 160 m
1	1 320 58	Length 180 m
1	1 320 60	Length 200 m
		12 LC simplex - 12 LC simplex
1	1 320 61	Length 10 m
1	1 320 62	Length 20 m
1	1 320 63	Length 30 m
1	1 320 64	Length 40 m
1	1 320 65	Length 50 m
1	1 320 66	Length 60 m
1	1 320 67	Length 70 m
1	1 320 68	Length 80 m
1	1 320 69	Length 90 m
1	1 320 70	Length 100 m
1	1 320 72	Length 120 m
1	1 320 74	Length 140 m
1	1 320 76	Length 160 m
1	1 320 78	Length 180 m
1	1 320 80	Length 200 m

Legrand cabling system, LCS³ fiber optic
High Density preterminated links

OM4 and OM5 on request

0 324 41

Supplied on a drum
Micro cables for high density cassettes
Aqua (OM3) and yellow (OS2) LSZH sheaths
Supplied with test reports (photometry)
Other configurations on request

Pack	Cat.Nos	**Ultra™ Fan-out/Fan-out preterminated High Density fiber optic links**	
		With fan-out (2 mm output) for secure transition between the cable and the ends. Low insertion loss for LC connector < 0.15 dB/connector	
		Fan-out/Fan-out OM3 micro cables	
		Description	Length (m)
1	0 324 01	6 LC duplex - 6 LC duplex	10
1	0 324 02	6 LC duplex - 6 LC duplex	20
1	0 324 03	6 LC duplex - 6 LC duplex	30
1	0 324 04	6 LC duplex - 6 LC duplex	40
1	0 324 05	6 LC duplex - 6 LC duplex	50
1	0 324 11	12 LC duplex - 12 LC duplex	10
1	0 324 12	12 LC duplex - 12 LC duplex	20
1	0 324 13	12 LC duplex - 12 LC duplex	30
1	0 324 14	12 LC duplex - 12 LC duplex	40
1	0 324 15	12 LC duplex - 12 LC duplex	50
		Fan-out/Fan-out OS2 micro cables	
		Description	Length (m)
1	0 324 21	6 LC duplex - 6 LC duplex	10
1	0 324 22	6 LC duplex - 6 LC duplex	20
1	0 324 23	6 LC duplex - 6 LC duplex	30
1	0 324 24	6 LC duplex - 6 LC duplex	40
1	0 324 25	6 LC duplex - 6 LC duplex	50
1	0 324 31	12 LC duplex - 12 LC duplex	10
1	0 324 32	12 LC duplex - 12 LC duplex	20
1	0 324 33	12 LC duplex - 12 LC duplex	30
1	0 324 34	12 LC duplex - 12 LC duplex	40
1	0 324 35	12 LC duplex - 12 LC duplex	50

Pack	Cat.Nos	**Ultra™ MTP[1]/MTP[1] High Density preterminated fiber optic links**	
		For connecting cassettes in High Density fiber optic panels and Ultra High Density drawers. Female MTP[1], A polarity. Low insertion loss for MTP[1] connector < 0.35 dB/connector	
		MTP[1] OM3 micro cables	
		Description	Length (m)
1	0 324 41	12 MTP[1]-MTP[1] fiber optics	10
1	0 324 42	12 MTP[1]-MTP[1] fiber optics	20
1	0 324 43	12 MTP[1]-MTP[1] fiber optics	30
1	0 324 44	12 MTP[1]-MTP[1] fiber optics	40
1	0 324 45	12 MTP[1]-MTP[1] fiber optics	50
		MTP[1] OS2 micro cables	
		Description	Length (m)
1	0 324 51	12 MTP[1]-MTP[1] fiber optics	10
1	0 324 52	12 MTP[1]-MTP[1] fiber optics	20
1	0 324 53	12 MTP[1]-MTP[1] fiber optics	30
1	0 324 54	12 MTP[1]-MTP[1] fiber optics	40
1	0 324 55	12 MTP[1]-MTP[1] fiber optics	50

1: MTP is a registered trademark of US Conec Ltd

Legrand cabling system, LCS³ fiber optic

Core™ fiber patch cords

0 326 13

Fitted at each end with 2 connectors with ceramic ferrule
Individually packed and tested (report supplied)
Max. optical losses/Master: 0.25 dB
LSZH Zipcord sheath

Pack	Cat.Nos	**OS2 single-mode fiber optic cords (9/125 µm)**
		For 9/125 µm single-mode installations, OS2 type
		Yellow sheaths
		SC/SC duplex cords
3	0 326 00	Length: 1 m
3	0 326 01	Length: 2 m
3	0 326 02	Length: 3 m
		SC/LC duplex cords
3	0 326 03	Length: 1 m
3	0 326 04	Length: 2 m
3	0 326 05	Length: 3 m
		LC/LC duplex cords
3	0 326 28	Length: 0.5 m
3	0 326 06	Length: 1 m
3	0 326 07	Length: 2 m
3	0 326 08	Length: 3 m
3	0 326 29	Length: 5 m

Pack	Cat.Nos	**OM3 multimode fiber optic cords (50/125 µm)**
		For 50/125 µm multimode installations, OM3 type
		Aqua sheaths
		SC/SC duplex cords
3	0 326 09	Length: 1 m
3	0 326 10	Length: 2 m
3	0 326 11	Length: 3 m
		SC/LC duplex cords
3	0 326 12	Length: 1 m
3	0 326 13	Length: 2 m
3	0 326 14	Length: 3 m
		LC/LC duplex cords
3	0 326 15	Length: 1 m
3	0 326 16	Length: 2 m
3	0 326 17	Length: 3 m

Pack	Cat.Nos	**OM4 multimode fiber optic cords (50/125 µm)**
		For 50/125 µm multimode installations, OM4 type
		Aqua sheaths
		SC/SC duplex cords
5	0 322 60	Length: 1 m
5	0 322 61	Length: 2 m
5	0 322 62	Length: 3 m
		SC/LC duplex cords
5	0 322 63	Length: 1 m
5	0 322 64	Length: 2 m
5	0 322 65	Length: 3 m
		LC/LC duplex cords
5	0 322 66	Length: 1 m
5	0 322 67	Length: 2 m
5	0 322 68	Length: 3 m

Legrand cabling system, LCS³ fiber optic

Ultra™ fiber patch cords

0 325 34

Fitted at each end with 2 connectors with ceramic ferrule
Individually packed and tested (report supplied)
Max. optical losses/Master: 0.15 dB
LSZH Zipcord sheath

Pack	Cat.Nos	**OS2 single-mode fiber optic cords (9/125 µm)**
		For 9/125 µm single-mode installations, OS2 type
		Yellow sheaths
		SC/SC duplex cords
5	0 325 27	Length: 1 m
5	0 325 28	Length: 2 m
5	0 325 29	Length: 3 m
		SC/LC duplex cords
5	0 325 30	Length: 1 m
5	0 325 31	Length: 2 m
5	0 325 32	Length: 3 m
		LC/LC duplex cords
5	0 325 33	Length: 1 m
5	0 325 34	Length: 2 m
5	0 325 35	Length: 3 m
5	0 325 36	Length: 5 m
		LC/LC Uniboot duplex cords
		Reversible polarity
3	0 326 86	Length: 1 m
3	0 326 87	Length: 2 m
3	0 326 88	Length: 3 m
3	0 326 89	Length: 5 m
3	0 326 92	Length: 10 m

Pack	Cat.Nos	**OM4 multimode fiber optic cords (50/125 µm)**
		For 50/125 µm multimode installations, OM4 type
		Aqua sheaths
		SC/SC duplex cords
3	0 326 30	Length: 1 m
3	0 326 31	Length: 2 m
3	0 326 32	Length: 3 m
		LC/LC duplex cords
3	0 326 33	Length: 0.5 m
3	0 326 34	Length: 1 m
3	0 326 35	Length: 2 m
3	0 326 36	Length: 3 m
3	0 326 37	Length: 5 m
		LC/LC Uniboot duplex cords
		Reversible polarity
3	0 326 95	Length: 0.5 m
3	0 326 96	Length: 1 m
3	0 326 97	Length: 2 m
3	0 326 98	Length: 3 m
3	0 326 99	Length: 5 m

Legrand cabling system, LCS³ fiber optic

pigtails, glue-on connectors and fan-out units

Legrand cabling system, LCS³ fiber optic

case and quick-connect connectors

OM5 on request

0 322 20

0 322 31

0 322 70

0 322 72

0 322 73

0 322 75

0 322 83

0 322 81

0 322 85
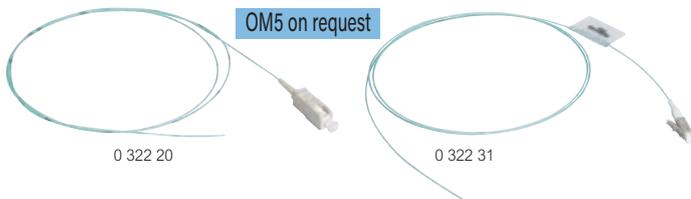
Pack	Cat.Nos		**Core™ pigtails**

LSZH
For making quick, reliable and high-performance fiber optic cable connections on site:
- OM2/OM3/OM4 IL Typical/Master = 0.15 dB
- OS2 IL Typical/Master = 0.18 dB
Compatible with all commercially-available splicers

Pack	1 m	2 m	
			50/125 µm - OM3 (PC)
1	0 322 20	0 322 23	SC connectors
1	0 322 21	0 322 24	LC connectors
1	0 322 22		ST connectors
			50/125 µm - OM4 (PC)
1	0 322 30	0 322 33	SC connectors
1	0 322 31	0 322 34	LC connectors
1	0 322 32		ST connectors
			9/125 µm - OS2 (APC or UPC) - OS1 compatible
1	0 322 40	0 322 45	SC-APC connectors
1	0 322 41	0 322 46	SC-UPC connectors
1	0 322 42	0 322 48	LC-APC connectors
1	0 322 43	0 322 47	LC-UPC connectors
1	0 322 44	0 322 49	ST-UPC connectors

Sets of 12 LC pigtails

1m length - 12 different colors

Pack	Cat.Nos	
1	0 326 24	12 OS2 LC-UPC pigtails
1	0 326 26	12 OM3 LC-UPC pigtails
1	0 326 71	12 OM4 LC-UPC pigtails

Heat-shrinkable sleeve for pigtails

1	0 327 44	40 mm - pack of 50 sleeves

50/125 and 62,5/125 µm glue-on connectors

Supplied with 900 µm sleeve
Connectors with ceramic ferrule
Typical attenuation: 0.3 dB

10	0 331 47	SC connectors
10	0 331 00	LC connectors

Fan-out units

For 900 µm sheathing of optical fibers
Take 250 µm fiber diameters

1	0 330 48	6-fiber fan-out unit
1	0 330 49	12-fiber fan-out unit

Pack	Cat.Nos	**Tool case for preparing optical fiber for quick-connect fiber optic connectors**
1	0 322 70	Provides the tools required for preparing optical cables, for carrying out initial tests of the connection of fibers to connectors and accessories for easy connection in all situations

Comprises:
- Precision cleaver
- Kevlar stripping and cutting tool
- Visual fault locator
- Installation instructions and video
- Accessories (cleaners, felt tip pen, bin, etc)

Quick-connect connectors

Connection can be made with case Cat.No 0 322 70
Quick-connect, reliable and reusable up to 5 times
To be used to lock the fiber inside the connector
An indicator light is used to test the connection
No glue or polishing needed
Can be installed on 900 µm fiber optics
For 250 µm fiber, use the special tubes supplied with the connectors; typical IL: multimode OM3/OM4 = 0.1 dB and single-mode OS2 = 0.2 dB (PC) and 0.3 dB (APC)

OM3/OM4 multimode connectors
Set of 12 connectors

12	0 322 71	LC PC 50/125 µm, 900/250 µm
12	0 322 72	SC PC 50/125 µm, 900/250 µm

OS2 single-mode connectors
Set of 12 connectors

12	0 322 73	LC UPC 9/125 µm, 900/250 µm
12	0 322 74	SC UPC 9/125 µm, 900/250 µm
12	0 322 75	SC APC 9/125 µm, 900/250 µm

Precision cleaver for updating case Cat.Nos 0 326 90

1	0 322 80	Enables precision-cutting of fiber optics and the use of quick-connect connectors Cat.Nos 0 322 71 to 0 322 75 with case Cat.No 0 326 90

Fiber optic cleaning accessories

1	0 322 83	MPO/MTP[1] ferrule cleaner
1	0 322 81	LC ferrule cleaner (PC/APC)
1	0 322 82	SC ferrule cleaner (PC/APC)
1	0 322 84	LC replacement cartridge
1	0 322 85	SC replacement cartridge
1	0 322 76	Fiber stripper
1	0 322 77	Wipes
1	0 322 78	Cleaning spray

1: MTP is a registered trademark of US Conec Ltd

MEETING ALL YOUR DIGITAL INFRASTRUCTURE REQUIREMENTS!

CHALLENGES IN STRUCTURED CABLING

A structured cabling system that has been designed and deployed effectively will include all the necessary cables and hardware to form a complete telecommunications infrastructure.

The type of structured cabling your data center needs will be determined by various factors, including the services you offer (bandwidth needs), your existing network equipment, and its layout. The top priorities for data centers are to ensure the network infrastructure is flexible, scalable, secure, and has the shortest possible business interruptions. Planning the network structure and selecting the right products to meet current and future requirements is a considerable challenge, and good quality structured cabling components are essential.

STRUCTURED CABLING SOLUTIONS

Pre-assembled solutions have become the norm. Multi-fibre cables usually with 12 or 24 fibers end on 12-fiber MPO/MTP® connectors or LC or SC duplex connectors. Pre-terminated cables simplify and allow much faster installation and provisioning of necessary connections even during operation. When the new servers, switches, or other active equipment are installed or moved, the cables are already in place and ready for connection. Pre-assembled systems are not limited to fiber optic cables. Pre-assembled solutions for copper cables are also becoming increasingly popular as trunk-solutions with jacks on both ends or as multi-patch trunks for fast and easy connection.

> FIND ALL OUR SOLUTIONS FOR
> STRUCTURED CABLING IN THE CATALOGUE

DIFFERENT SOLUTIONS FOR DIFFERENT CABLING AREAS

Within the data centers, different areas have different requirements for density, performance, and technology. The increasing demand for bandwidth and the rapid changes in active equipment technology and interfaces are also setting new standards for structured cabling inside and outside the boundaries of the data center. The requirements for the main connection points of several data centres and the connection points to the outside world are completely different in many situations than in the classic white space of a data center.

WE HAVE SOLUTIONS FOR EVERY AREA
AND WE ARE HAPPY TO SUPPORT YOU

As a specialist in data center solutions and structured cabling, we offer you a comprehensive portfolio of solutions that can meet all your digital infrastructure requirements. In order to make this clearer and more intuitive, this catalogue is divided into precisely these core areas - we will be happy to advise and support you in making the right product selection if required.

MEET-ME ROOM

ADVANCED CONNECTIVITY

LEGRAND DATA CENTER SOLUTIONS

DATA CENTER STRUCTURED CABLING SOLUTION

HIGH-PERFORMANCE COMPUTING
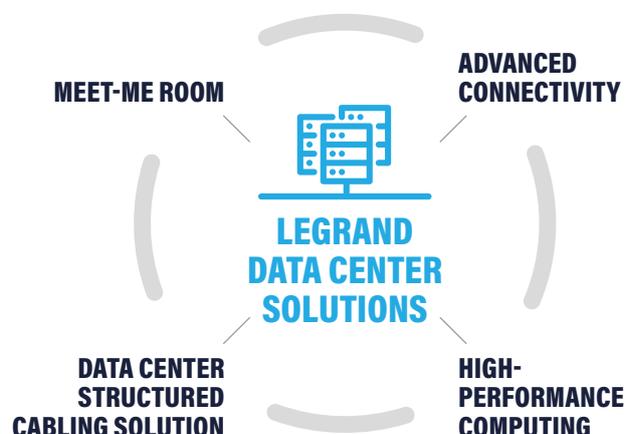
A variety of needs
covered!

		GLOBAL ADVANTAGES			PRODUCT CRITERIA	
		EASY & FAST INSTALLATION	**MODULARITY & SCALABILITY**	**VERY HIGH FLEXIBILITY**	**PRE-TERMINATED & SPLICE SOLUTIONS**	**FIBER & COPPER SOLUTIONS**
	MEET-ME ROOM	✓	✓		✓	
	ADVANCED CONNECTIVITY	✓	✓	✓		
	DATA CENTER STRUCTURED CABLING SOLUTION	✓	✓		✓	✓
	HIGH-PERFORMANCE COMPUTING	✓	✓		✓	

PRODUCT CRITERIA					CUSTOMER ADVANTAGES	
PASSIVE FIBER SOLUTIONS WITH HIGHEST DENSITY	PASSIVE FIBER SOLUTIONS WITH HIGHEST QUALITY	SOLUTIONS READY FOR NEW DD TRANSCEIVER	SOLUTIONS READY FOR BANDWIDTH 400G+	CONNECTION TO PROVIDERS AND/OR OTHER BUILDINGS / DATA CENTERS	SERVICE & SUPPORT	25-YEAR WARRANTY FOR APPLICATION & PERFORMANCE
✓				✓	✓	✓
✓	✓	✓	✓		✓	✓
					✓	✓
	✓		✓		✓	✓

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