

FIBER OPTIC SYSTEM



TAKING HIGH DENSITY TO THE NEXT LEVEL
WITH NEW INTEGRATED SOLUTIONS

CATALOGUE
PAGES
INSIDE



A RELIABLE PARTNER FOR YOUR DIGITAL INFRASTRUCTURES

The Legrand group is a world leader in communication networks for data transmission. Its investment in the development and design of structured cabling solutions enables the Group to expand its offer so as to remain at the highest level of performance for data centers and smart building installations.





3 DIMENSIONS OF EXCELLENCE

To provide you with ever-more cutting-edge and efficient systems, the Legrand group strengthens its LCS³ fiber optic offer with new High Density solutions! These solutions meet the three dimensions of excellence, inherent to the LCS³ solutions, that perfectly address the key challenges for digital networks: performance, scalability and efficiency!



PERFORMANCE

- 40 Gbps, 100 Gbps and 400 Gbps Ethernet applications
- Higher bandwidth & lower latency
- MTP/MPO high performance and density



SCALABILITY

- High density solutions optimizing space
- Greater connectivity capacity making way for future evolutions without modification of the installation
- Agile and flexible solutions enabling easy changes



EFFICIENCY

- Easy installation and easy maintenance reducing time, cost and risks when changing or adding solutions
- Possibility to mix fiber & copper to meet all needs with one installation
- Product Environmental Profiles for the new slim cassettes and panels

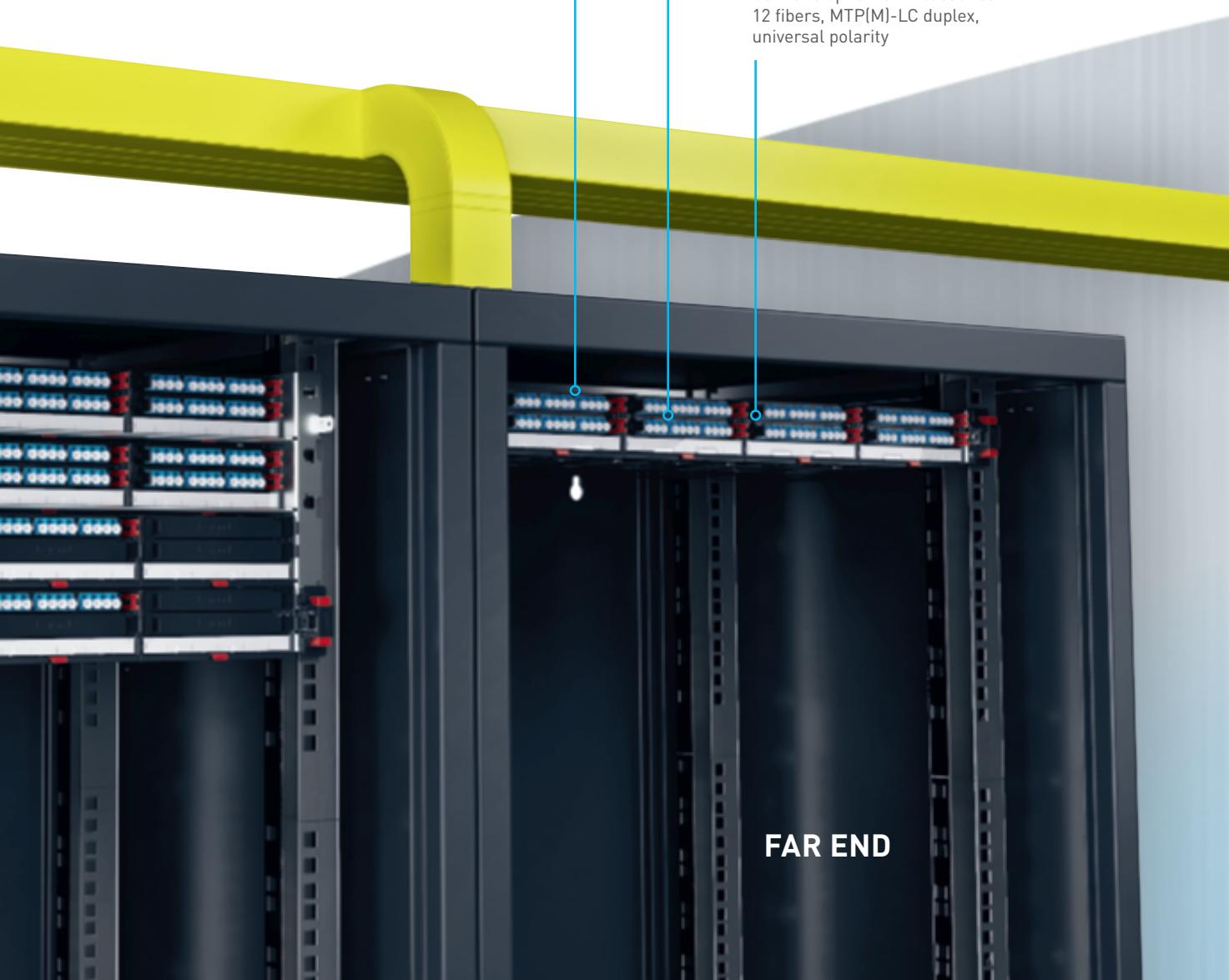


CREATING FULL HD FIBER

Legrand boosts its high density offer for building networks and data center applications within LCS³ fiber systems. From 1U to 4U, they support the fiber and equipment port density required for all networks with high and even ultra high density (UHD version see p.28)



SYSTEMS



* Configured offer possible on request

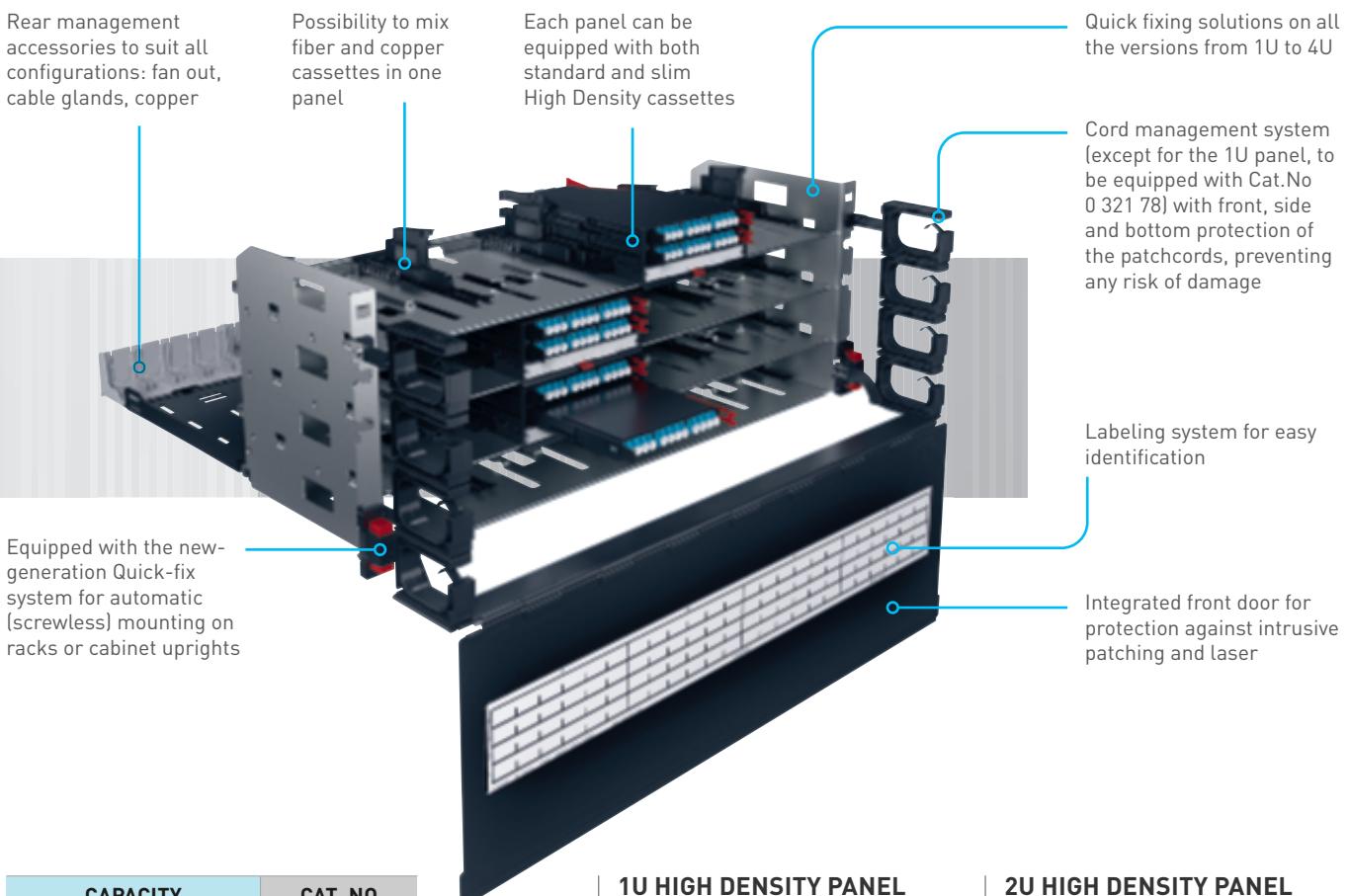
HIGH DENSITY MODULAR PANELS

From 1U to 4U

Optimize space and connectivity with our three new 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

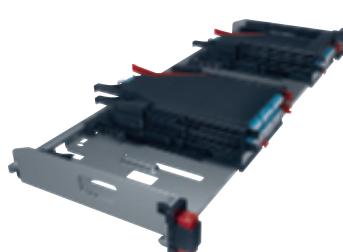
Can hold up to 32 slim cassettes (into 16 supports)



| CAPACITY | CAT. NO |
|-----------------------|----------|
| 1U High Density panel | 0 321 75 |
| 2U High Density panel | 0 321 76 |
| 4U High Density panel | 0 321 77 |

1U HIGH DENSITY PANEL

Can hold up to 8 slim cassettes (into 4 supports)



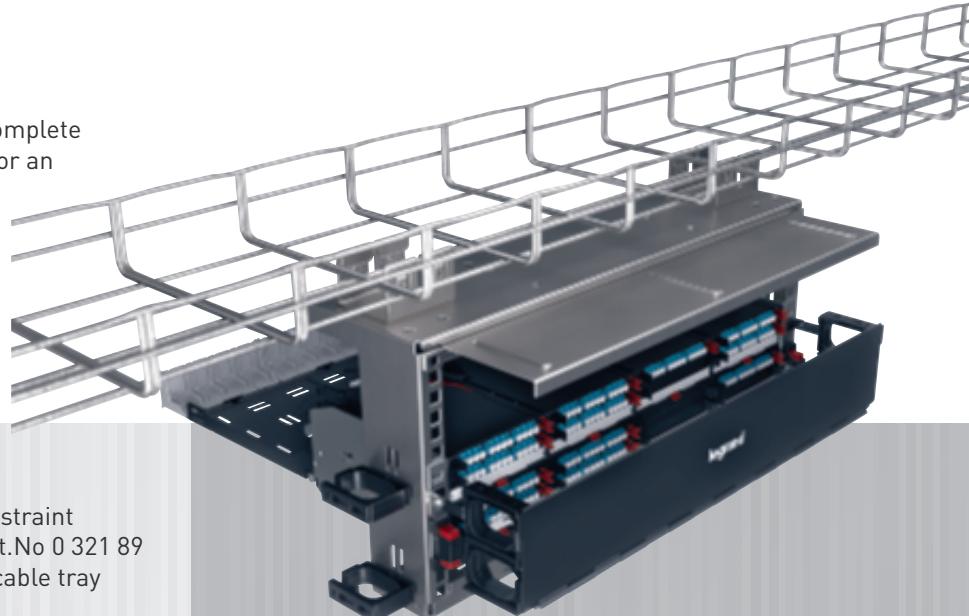
2U HIGH DENSITY PANEL

Can hold up to 16 slim cassettes (into 8 supports)



Flexibility of installation

Our new high density modular panels offer complete freedom of installation: opt for a top-of-rack or an in-rack installation depending on your site constraints and your infrastructure's configuration!



TOP-OF-RACK INSTALLATION

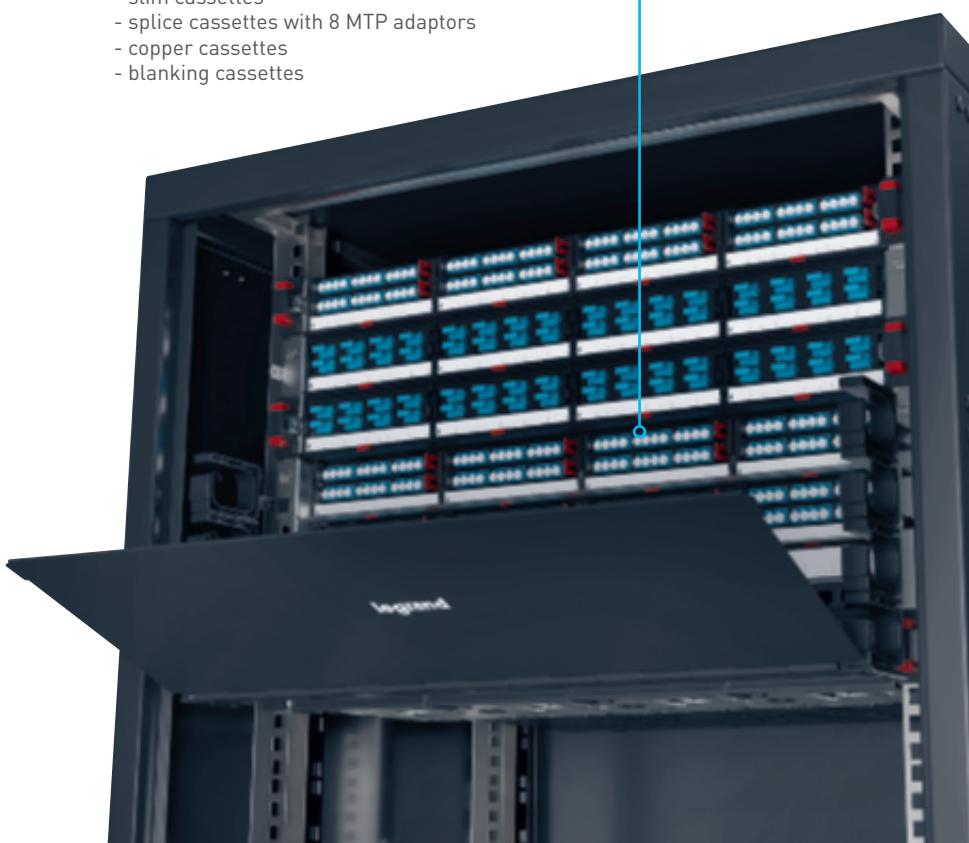
Optimize space and meet any technical constraint thanks to the overhead solution! The kit Cat.No 0 321 89 enables you to fix the modular panels to a cable tray (Cablofil) above of the enclosure.

IN-RACK INSTALLATION

Easily mount the modular panels directly into the LCS³ enclosures and equip them with any type of cassettes in order to meet your specific needs!

1U, 2U and 4U panels equipped with:

- slim cassettes
- splice cassettes with 8 MTP adaptors
- copper cassettes
- blanking cassettes



UNIVERSAL FIXING

Thanks to the Zero-U kit, you can mount cassettes on 19" uprights, raised access floors, wire and sheet metal cable trays, structural uprights of the enclosure, etc. (see p.9)

CASSETTES

Slim solutions for greater connectivity

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

- Mounting either on High Density modular panels or in 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 offering flexibility in case of changes

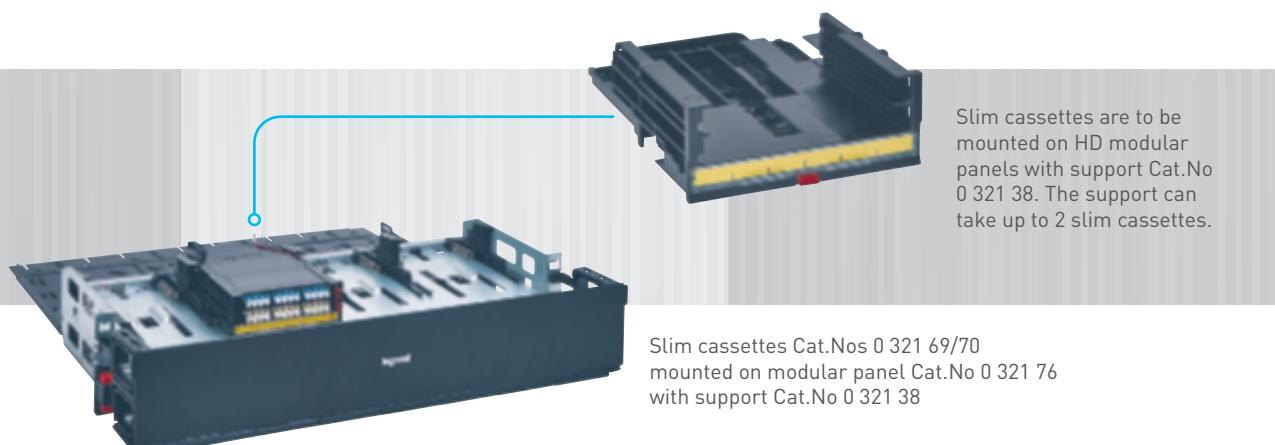
| TYPE | CAT. NO |
|-----------------------|----------|
| 12 LC OM4 multimode | 0 321 69 |
| 12 LC OM3 multimode | 0 321 68 |
| 12 LC OS2 single-mode | 0 321 70 |
| Blanking module | 0 321 39 |



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 2 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

PATCHING 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.

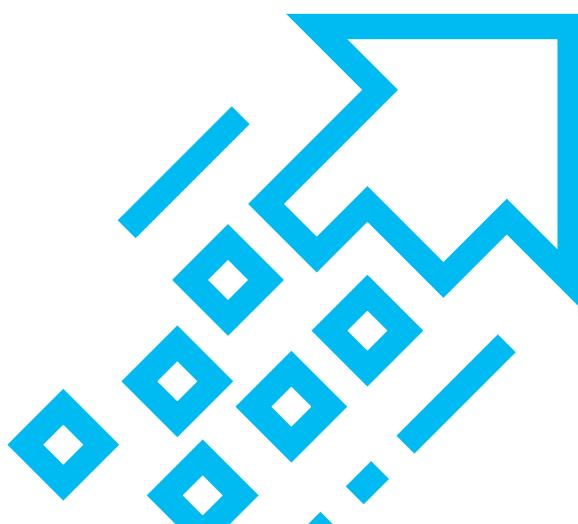
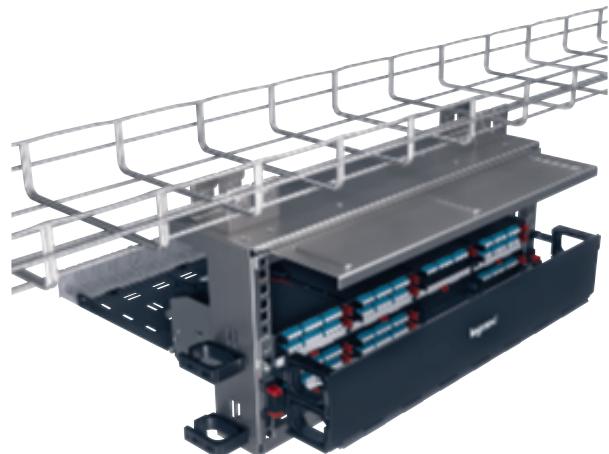
- Efficient solution to optimize space without the need to add an enclosure
- Compatible with 1U, 2U and 4U High Density modular panels
- Easy mounting on cable trays (such as Cablofil) thanks to quick-fixing solutions



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. 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



READY FOR FUTURE APPLICATIONS!

With our new on-demand OM5 offer, we meet 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

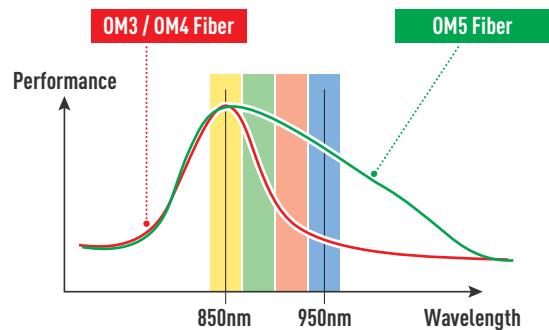
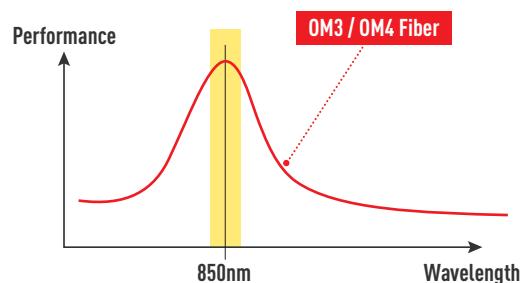


OM5 12 LC multimode block



Performance and wavelength

OM3 and OM4 fibers are optimized according to the wavelength traditionally used: 850nm. To accept the 4 signals used in multimode WDM, OM5 has been redesigned to accept wavelengths from 850nm to 950nm. The diagrams below provide a graphical representation.





Application upgrades

By considering all the current applications, either standardized or recognized through multi-source agreements, as well as draft applications to be standardized soon, we can establish the following evolutions of the applications optimized per type of multimode cabling:

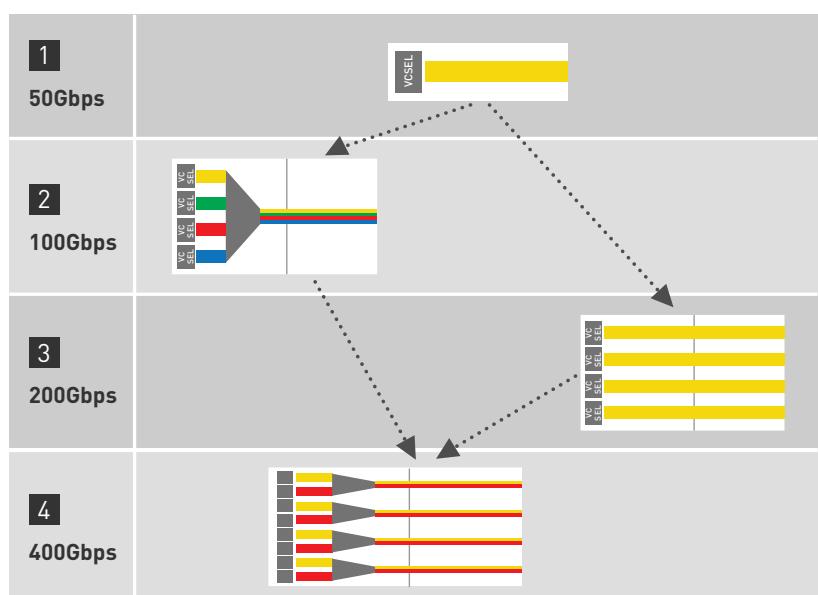
- 1** Duplex channel for single wavelength (typically duplex LC connector with OM3 or OM4 fiber):
10GBASE-SR → 25GBASE-SR
→ 50GBASE-SR*
- 2** Duplex channel for multiple wavelength (typically duplex LC connector with OM5 fiber):
10GBASE-SR → 25GBASE-SR
→ 40G-SWDM4 → 50GBASE-SR
→ 100G-BiDi or 100G-SWDM4*
- 3** Multiple fiber solution for parallel optics (typically MPO connector with OM3 or OM4 fiber):
40GBASE-SR4 → 100GBASE-SR4
→ 200GBASE-SR4*
- 4** Multiple fiber solution for parallel optics and multiple wavelengths (typically MPO connector with OM5 fiber):
40GBASE-SR4 → 100GBASE-SR4
→ 200GBASE-SR4 → 400GBASE-SR4.2 or 400G-BD4.2*

The best of both worlds

To ensure the maximum lifespan of the fiber cabling, it is important to select the right fiber type and design. Today, a duplex OM4 channel can only expect to reach 50Gbps to the maximum distance. To reach 200Gbps, two options are available: duplex channel for multiple wavelength or multiple fiber solution for parallel optics.

But to reach 400Gbps, the best solution is the combination of all technologies together.

To allow the multimode fiber infrastructure to reach 400Gbps, the best option today is to provide for the full range of technologies. This currently means using OM5 cables with MPO connectors.



*See TR ISO/IEC 11801-9908: "Guidance for the support of higher speed applications over optical fiber channels" for further information. Note that some multiple wavelength applications can function on OM3 and OM4, but to limited distance.

CONTACT US FOR MORE INFORMATION ABOUT THE CUSTOMIZED OFFER



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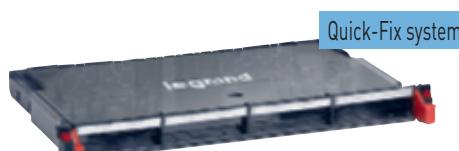


Legrand cabling system, LCS³ fiber optic selection chart

19" standard solutions

CONFIGURE YOUR LCS³ FIBER OPTIC SYSTEM

Example:



Modular drawer

+



Blocks

+

DRAWERS TO BE EQUIPPED (p.26)

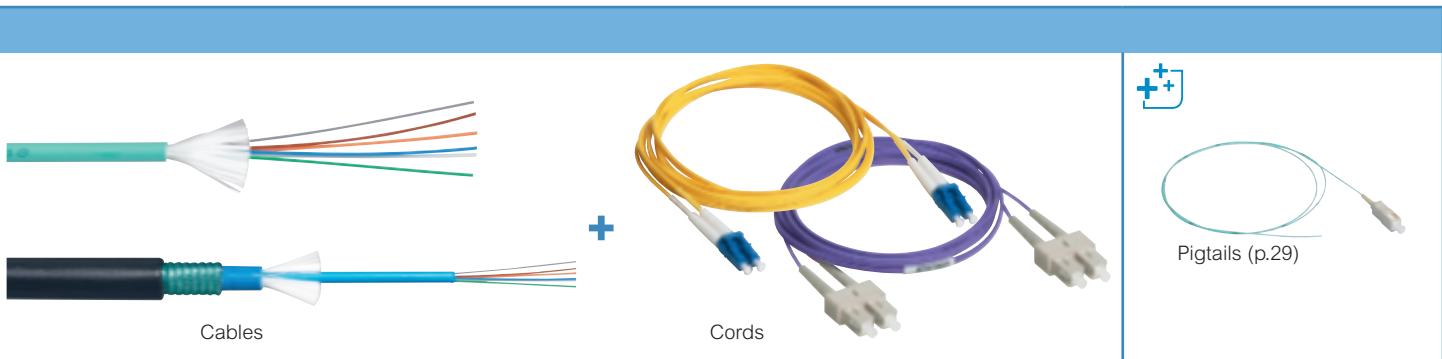
| FIBER OPTIC DRAWERS | | | | FIBER OPTIC BLOCKS | | | | | | | | | |
|---------------------|--|----------|-----------------------|--------------------|-----------|-------------|--------------|-------------|---------------|-----------------|-----------------|----------|--|
| Size | Type | Cat.No | Max. number of blocks | Number of fibers | SC duplex | | SC duplex HD | | SC APC duplex | | LC duplex | | |
| | | | | | Multimode | Single-mode | Multimode | Single-mode | Single-mode | Multimode | Single-mode | | |
| 19" modular | FLAT DRAWERS - QUICK-FIX SYSTEM | | | | | | | | | | | | |
| | To be equipped with fiber optic blocks | 0 321 00 | 4 | 6 | 0 321 20 | 0 321 10 | - | - | 0 321 12 | 0 321 23 | | | |
| | | | | 12 | - | - | 0 321 21 | 0 321 11 | - | 0 321 24 | 0 321 13 | | |
| | | | | 24 | - | - | - | - | - | 0 321 36 (aqua) | 0 321 37 (aqua) | 0 321 14 | |
| | ANGLED DRAWERS - QUICK-FIX SYSTEM | | | | | | | | | | | | |
| | To be equipped with fiber optic blocks | 0 321 01 | 4 | 6 | 0 321 20 | 0 321 10 | - | - | 0 321 12 | 0 321 23 | | | |
| | | | | 12 | - | - | 0 321 21 | 0 321 11 | - | 0 321 24 | 0 321 13 | | |
| | | | | 24 | - | - | - | - | - | 0 321 36 (aqua) | 0 321 37 (aqua) | 0 321 14 | |

EQUIPPED DRAWERS (P.26)



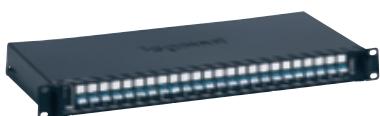
| Size | Type | Capacity (fibers) | SC duplex | | SC APC duplex | |
|-------------|------------------|-------------------|-----------|-------------|---------------|-------------|
| | | | Multimode | Single-mode | Single-mode | Single-mode |
| 19" modular | SLIDING | | | | | |
| | Quick-Fix system | 24 | 0 321 02 | - | 0 321 06 | - |
| 19" | SLIDING | 48 | - | - | - | - |
| | | 24 | 0 321 61 | - | 0 321 64 | 0 321 66 |
| 19" | ROTATING | | 48 | - | - | - |
| | Screw fixing | 36 | 0 321 72 | - | 0 321 74 | - |
| | | 72 | - | - | - | - |

1 : MTP is a registered trademark of US Conec Ltd



ACCESSORIES

| | LC duplex HD | LC APC duplex | ST | | 4 MTP ⁽¹⁾ feedthrough adaptor | | Blanking plate | Copper block for 5 RJ45 | Cassette for pigtail | Coiling kit | Accessory for fan-out |
|--|--------------|---------------|-----------|-------------|--|-------------|----------------|-------------------------|----------------------|-------------|-----------------------|
| | Multimode | Single-mode | Multimode | Single-mode | Multimode | Single-mode | | | | | |
| | - | - | - | 0 321 27 | 0 321 17 | 0 321 34 | 0 321 29 | 0 321 32 | 0 321 30 | 0 321 31 | 0 321 28 |
| | - | - | 0 321 16 | - | - | | | | | | |
| | 0 321 25 | 0 321 15 | - | - | - | | | | | | |
| | - | - | - | 0 321 27 | 0 321 17 | 0 321 34 | 0 321 29 | 0 321 32 | 0 321 30 | 0 321 31 | 0 321 28 |
| | - | - | 0 321 16 | - | - | | | | | | |
| | 0 321 25 | 0 321 15 | - | - | - | | | | | | |



| | LC duplex | | LC APC duplex | | ST |
|----------|-----------|-------------|---------------|-----------|----------|
| | Multimode | Single-mode | Single-mode | Multimode | |
| 0 321 04 | - | - | - | - | - |
| 0 321 62 | - | 0 321 65 | - | 0 321 67 | 0 321 63 |
| 0 321 71 | - | 0 321 73 | - | - | - |

Legrand cabling system, LCS³ fiber optic selection chart

19" High Density solutions

CONFIGURE YOUR LCS³ HIGH DENSITY FIBER OPTIC SYSTEM

Example:



Modular panel



Cassettes



HIGH DENSITY PANELS TO BE EQUIPPED (p.27)

| HIGH DENSITY PANELS | | | | | Capacity for 1U | Cat.No | Number of fibers | SC | | SC HD | | SC APC | LC | | | | | | | |
|--------------------------|---|----------|----------|----------|-----------------|------------------------------------|------------------------------------|---|------------------------------------|-----------------------|-----------------------|---|----|--|--|--|--|--|--|--|
| Size | Type | 1 U | 2 U | 4 U | | | | Multimode | Single-mode | Multimode | Single-mode | | | | | | | | | |
| High Density 19" modular | To be equipped with cassettes to be equipped with fiber optic blocks | 0 321 75 | 0 321 76 | 0 321 77 | 4 | 0 321 41 | CASSETTES TO BE EQUIPPED | FIBER OPTIC BLOCKS | | | | | | | | | | | | |
| | 6 | | | | | | 0 321 20 (duplex) | 0 321 10 (duplex) | - | - | 0 321 12 | 0 321 23 (duplex) 0 321 36 (duplex-aqua) | | | | | | | | |
| | 12 | | | | | | - | - | 0 321 21 (duplex) | 0 321 11 (duplex) | - | 0 321 24 (duplex) 0 321 37 (duplex-aqua) | | | | | | | | |
| | To be equipped with pre-equipped cassettes (supplied with set of 6 or 12 OM3 pigtailed) | | | | | | 24 | - | - | - | - | - | - | | | | | | | |
| | 0 321 75 | 0 321 76 | 0 321 77 | 4 | - | PRE-EQUIPPED CASSETTES | PRETERMINATED (A/C POLARITY) | | | | | | | | | | | | | |
| | | | | | | 12 | - | - | 0 321 43 (OM4) | 0 321 45 (OS2) | - | 0 321 48 (OM4) | | | | | | | | |
| | | | | | | 24 | - | - | 0 321 59 (OM4) | 0 321 60 (OS2) | - | - | | | | | | | | |
| | | | | | | To be equipped with slim cassettes | SUPPORT FOR SLIM CASSETTES | | WITH FIBER OPTIC BLOCKS + PIGTAILS | | | | | | | | | | | |
| Zero-U kit | To be equipped with slim cassettes | 0 321 03 | 0 321 38 | 12 | 1 | 0 321 38 | SUPPORT FOR SLIM CASSETTES | PRETERMINATED - SLIM CASSETTES (UNIVERSAL POLARITY) | | | | | | | | | | | | |
| | 12 | | | | | | - | - | 0 321 80 (duplex-OM3) | 0 321 84 (duplex-OM3) | - | - | | | | | | | | |
| | 24 | | | | | | - | - | 0 321 82 (duplex-OM3) | 0 321 86 (duplex-OM3) | - | - | | | | | | | | |
| | To be equipped with pre-equipped cassettes (supplied with set of 6 or 12 OM3 pigtailed) | | | | | | PRE-EQUIPPED CASSETTES | | PRETERMINATED (A/C POLARITY) | | | | | | | | | | | |
| | | | | | | | 12 | - | - | - | - | - | - | | | | | | | |
| | | | | | | | 24 | - | - | - | - | - | - | | | | | | | |
| | | | | | | | WITH FIBER OPTIC BLOCKS + PIGTAILS | | | | | | | | | | | | | |
| | | | | | | | 6 | - | - | 0 321 80 (duplex-OM3) | 0 321 84 (duplex-OM3) | - | - | | | | | | | |
| | | | | | | | 12 | - | - | 0 321 82 (duplex-OM3) | 0 321 86 (duplex-OM3) | - | - | | | | | | | |



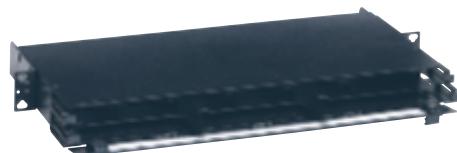
| | | | | | | | | | ACCESSORIES | | | |
|--|----------------------|--|--------------------------|-------------|-----------|-------------|-----------|--|-------------------|---|---|---|
| | | LC HD | | LC APC | | ST | | 8 MTP ⁽¹⁾ feedthrough adaptor | Blanking cassette | RJ45 copper cassette to be equipped | Cable management accessory | Front management HD modular panel |
| | Single-mode | Multimode | Single-mode | Single-mode | Multimode | Single-mode | Multimode | Single-mode | | | | |
| | 0 321 13 | - | - | - | 0 321 27 | 0 321 17 | 0 321 18 | 0 321 19 | 0 337 57 | 0 337 55 (to be equipped with copper connectors) | 0 321 46 (for 1 U panel only, supplied for 2 U and 4 U panels) | 0 321 78 (for 1 U panel only, supplied for 2 U and 4 U panels) |
| | 0 321 14 (duplex) | - | - | 0 321 16 | - | - | - | - | 0 337 57 | 0 337 55 (to be equipped with copper connectors) | 0 321 46 (for 1 U panel only, supplied for 2 U and 4 U panels) | 0 321 78 (for 1 U panel only, supplied for 2 U and 4 U panels) |
| | - | 0 321 25 (duplex) | 0 321 15 (duplex) | - | - | - | - | - | - | - | - | - |
| | 0 321 49 (OS2) | - | - | - | - | - | - | - | - | - | - | - |
| | - | 0 321 42 (OM4) | 0 321 44 (OS2) | - | - | - | - | - | - | - | - | - |
| | - | 0 321 81 (duplex-OM3) | 0 321 85 (duplex-OM3) | - | - | - | - | - | - | - | - | - |
| | - | 0 321 83 (duplex-OM3) | 0 321 87 (duplex-OM3) | - | - | - | - | - | - | - | - | - |
| | - | 0 321 69 (OM4) 0 321 68 (OM3) | 0 321 70 (OS2) | - | - | - | - | - | 0 321 39 | 0 337 55 (to be equipped with copper connectors) | 0 321 46 (for 1 U panel only, supplied for 2 U and 4 U panels) | 0 321 78 (for 1 U panel only, supplied for 2 U and 4 U panels) |
| | - | 0 321 69 (OM4) 0 321 68 (OM3) | 0 321 70 (OS2) | - | - | - | - | - | 0 321 39 | - | - | - |
| | - | 0 321 48 (OM4) | 0 321 49 (OS2) | - | - | - | - | - | - | - | - | - |
| | - | 0 321 42 (OM4) | 0 321 44 (OS2) | - | - | - | - | - | - | - | - | - |
| | - | 0 321 81 (duplex-OM3) | 0 321 85 (duplex-OM3) | - | - | - | - | - | - | - | - | - |
| | - | 0 321 83 (duplex-OM3) | 0 321 87 (duplex-OM3) | - | - | - | - | - | - | - | - | - |

Legrand cabling system, LCS³ fiber optic selection chart

19" Ultra High Density solutions

CONFIGURE YOUR LCS³ ULTRA HIGH DENSITY FIBER OPTIC SYSTEM

Example:



Modular drawer



Cassettes



ULTRA HIGH DENSITY DRAWERS TO BE EQUIPPED (P.28)



Ultra High Density drawers

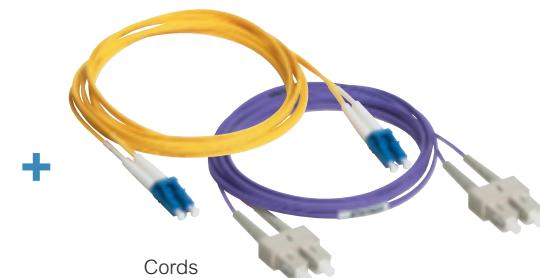
Ultra High Density cassettes

| Size | Type | Height | Number of cassettes per U | Cat.No | Number of fibers (links) | Multimode OM4 | |
|--|---|--------|---------------------------|----------|--------------------------|---------------|--|
| Cord management from the front and the back | | | | | | | |
| Ultra High Density 19" modular | To be equipped with 8-fiber cassettes | 1 U | 18 | 0 321 90 | 8 | 0 321 93 | |
| | | 2 U | | 0 321 91 | | | |
| | | 4 U | | 0 321 92 | | | |
| | To be equipped with 12-fiber cassettes | 1 U | 12 | 0 321 50 | 12 | 0 321 54 | |
| | | 2 U | | 0 321 52 | | | |
| | | 4 U | | 0 321 53 | | | |
| | Cord management from the front | | | | | | |
| | To be equipped with 12-fiber cassettes | 1 U | 12 | 0 321 51 | 12 | 0 321 54 | |
| | | | | | | | |

1 : MTP is a registered trademark of US Conec Ltd



Links



Cords



Adaptors

| | | LC | | | 4 MPO (MTP ⁽¹⁾ compatible) | |
|--|-----------------|-----------|-------------|-----------------|---------------------------------------|-------------|
| | | Multimode | Single-mode | APC single-mode | Multimode | Single-mode |
| | Single-mode OS2 | 0 321 94 | 0 321 97 | 0 321 98 | 0 321 99 | 0 321 95 |
| | | 0 321 55 | 0 321 58 | - | - | 0 321 56 |
| | | 0 321 55 | 0 321 58 | - | - | 0 321 56 |
| | | | | | | 0 321 57 |

Legrand cabling system, LCS³ fiber optic selection chart

pigtails, cables and patch cords

PIGTAILS (p.29)

| Length (m) | OS2 - 9/125 µm | | | | | | | | | | |
|---------------|----------------|----------|----------|----------------------------------|----------|----------|----------|----------|----------|--|----------|
| | SC - APC | LC - APC | SC - UPC | LC - UPC | ST - UPC | SC | LC | ST | SC | LC | ST |
| 1 | 0 322 40 | 0 322 42 | 0 322 41 | 0 326 24 (set of 12 pigtails) | 0 322 44 | 0 322 10 | 0 322 11 | 0 322 12 | 0 322 20 | 0 322 21 0 326 26 (set of 12 pigtails) | 0 322 22 |
| 2 | 0 322 45 | 0 322 48 | 0 322 46 | 0 322 47 | 0 322 49 | 0 322 13 | 0 322 14 | 0 322 15 | 0 322 23 | 0 322 24 | - |

CABLES (p.24)

| Drum 2000m except information | OS2 - 9/125 µm | | | | |
|--|------------------|----------|----------|----------|--|
| | Number of fibers | | | | |
| | 4 | 6 | 8 | 12 | 24 |
| Tightbuffer LSZH sheath Indoor/Outdoor | | | | | 0 325 50 |
| Loose LSZH sheath Indoor/Outdoor | | 0 325 02 | 0 325 12 | 0 325 03 | 0 325 14 (Dca) 0 325 26 (Cca) |
| Loose PE sheath corrugated steel OUTDOOR CORRUGATED STEEL | | 0 325 23 | 0 325 13 | 0 325 24 | 0 325 15 0 325 25 |

PATCH CORDS (p.30)

| OS2 - 9/125 µm | | OM2 - 50/125 µm | | | | | | |
|----------------|--------------|----------------------|----------|----------|----------|----------|----------|----------|
| SC/SC duplex | SC/LC duplex | LC/LC Uniboot duplex | | | | | | |
| ST/ST duplex | SC/SC duplex | ST/SC duplex | | | | | | |
| LC/LC duplex | | | | | | | | |
| 0.5 | - | 0 326 28 | - | - | - | - | - | |
| 1 | 0 326 00 | 0 326 03 | 0 326 06 | 0 326 86 | 0 330 80 | 0 330 69 | - | - |
| 2 | 0 326 01 | 0 326 04 | 0 326 07 | 0 326 87 | 0 330 81 | 0 330 70 | 0 330 72 | 0 330 61 |
| 3 | 0 326 02 | 0 326 05 | 0 326 08 | 0 326 88 | 0 330 82 | 0 330 71 | 0 330 73 | - |
| 5 | - | - | 0 326 29 | 0 326 89 | - | - | - | - |
| 10 | - | - | - | 0 326 92 | - | - | - | - |

| | | | | | | |
|-----------------|------------------------------------|----------|----------------------------------|---|----------|----------|
| | | | | | | |
| OM4 - 50/125 µm | | | Heat-shrinkable sleeve | 50/125 and 62.5/125 µm glue-on connectors | | |
| SC | LC | ST | | SC | LC | ST |
| 0 322 30 | 0 322 31 | 0 322 32 | 0 327 44 (pack of 50 sleeves) | 0 331 47 | 0 331 00 | 0 331 27 |
| | 0 326 71 (set of 12 pigtaileds) | | | | | |
| 0 322 33 | 0 322 34 | - | | | | |

| OM3 - 50/125 µm | | | | | OM4 - 50/125 µm | | | | |
|------------------|----------|----------|----------|----------|------------------|-----------------------------|----------|--------------------------|--------------------------|
| Number of fibers | | | | | Number of fibers | | | | |
| 4 | 6 | 8 | 12 | 24 | 4 | 6 | 8 | 12 | 24 |
| | 0 325 10 | | 0 325 11 | 0 325 52 | | 0 326 65 (drum 500m) | | 0 325 67 (drum 1000m) | 0 326 68 (drum 1000m) |
| | | | | | | 0 326 66 (drum of 1000m) | | | |
| 0 325 37 | | 0 325 38 | 0 325 39 | 0 325 53 | 0 325 43 | | 0 325 44 | 0 325 45 (Dca) | |
| | | | | | | | | 0 325 49 (Cca) | |
| | | 0 325 40 | 0 325 41 | 0 325 42 | 0 325 46 | | 0 325 47 | 0 325 48 | |

| | | |
|--------------|-----------------|-----------------|
| | | |
| | OM3 - 50/125 µm | OM4 - 50/125 µm |
| SC/LC duplex | LC/ST duplex | SC/SC duplex |
| - | - | - |
| 0 330 75 | - | 0 326 09 |
| 0 330 63 | 0 330 65 | 0 326 10 |
| 0 330 76 | - | 0 326 11 |
| - | - | - |
| - | - | - |



Other configurations
On request



Euroclasses
see p.31

Legrand cabling system, LCS³ fiber optic selection chart

simplex preterminated links and High Density preterminated links

LCS³ SIMPLEX PRETERMINATED LINKS (p.25)



| Length (m) | Tight-buffer OM3 | |
|---------------|------------------|---------------|
| | 6 SC - 6 SC | 12 SC - 12 SC |
| 10 | 1 320 01 | 1 320 21 |
| 20 | 1 320 02 | 1 320 22 |
| 30 | 1 320 03 | 1 320 23 |
| 40 | 1 320 04 | 1 320 24 |
| 50 | 1 320 05 | 1 320 25 |
| 60 | 1 320 06 | 1 320 26 |
| 70 | 1 320 07 | 1 320 27 |
| 80 | 1 320 08 | 1 320 28 |
| 90 | 1 320 09 | 1 320 29 |
| 100 | 1 320 10 | 1 320 30 |
| 120 | 1 320 12 | 1 320 32 |
| 140 | 1 320 14 | 1 320 34 |
| 160 | 1 320 16 | 1 320 36 |
| 180 | 1 320 18 | 1 320 38 |
| 200 | 1 320 20 | 1 320 40 |

LCS³ HIGH DENSITY PRETERMINATED LINKS (p.25)



| Length (m) | Fan-out - Fan-out OS2 | | Fan-out - Fan-out OM3 | |
|---------------|---------------------------|-----------------------------|---------------------------|-----------------------------|
| | 6 LC duplex - 6 LC duplex | 12 LC duplex - 12 LC duplex | 6 LC duplex - 6 LC duplex | 12 LC duplex - 12 LC duplex |
| 10 | 0 324 21 | 0 324 31 | 0 324 01 | 0 324 11 |
| 20 | 0 324 22 | 0 324 32 | 0 324 02 | 0 324 12 |
| 30 | 0 324 23 | 0 324 33 | 0 324 03 | 0 324 13 |
| 40 | 0 324 24 | 0 324 34 | 0 324 04 | 0 324 14 |
| 50 | 0 324 25 | 0 324 35 | 0 324 05 | 0 324 15 |

1 : MTP is a registered trademark of US Conec Ltd


6 LC - 6 LC
12 LC - 12 LC

| | |
|----------|----------|
| 1 320 41 | 1 320 61 |
| 1 320 42 | 1 320 62 |
| 1 320 43 | 1 320 63 |
| 1 320 44 | 1 320 64 |
| 1 320 45 | 1 320 65 |
| 1 320 46 | 1 320 66 |
| 1 320 47 | 1 320 67 |
| 1 320 48 | 1 320 68 |
| 1 320 49 | 1 320 69 |
| 1 320 50 | 1 320 70 |
| 1 320 52 | 1 320 72 |
| 1 320 54 | 1 320 74 |
| 1 320 56 | 1 320 76 |
| 1 320 58 | 1 320 78 |
| 1 320 60 | 1 320 80 |



OM5 simplex preterminated links
On request


MTP⁽¹⁾ OS2

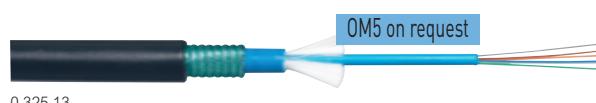
MTP⁽¹⁾ OM3
MTP⁽¹⁾ - MTP⁽¹⁾ 12 fibers
MTP⁽¹⁾ - MTP⁽¹⁾ 12 fibers

| | |
|----------|----------|
| 0 324 51 | 0 324 41 |
| 0 324 52 | 0 324 42 |
| 0 324 53 | 0 324 43 |
| 0 324 54 | 0 324 44 |
| 0 324 55 | 0 324 45 |



OM5 High Density preterminated links
On request

Legrand cabling system, LCS³ fiber optic cables



0 325 13



0 325 10



0 325 08



0 326 66



Selection chart p.20-21

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

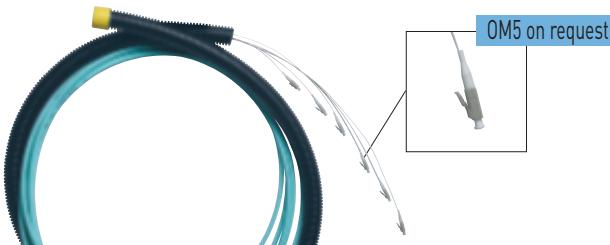
| Pack | Cat.Nos | | Single-mode OS2 fiber optic cables (9/125 µm) - (OS1 compatible) |
|-------------------|--|---------------------|---|
| 2000 ¹ | 0 325 02 0 325 12 0 325 03 0 325 14 0 325 26 0 325 51 | Loose tube | For 9/125 µm single-mode installations, OS2 type |
| | | Tight-buffer 900 µm | Indoor/Outdoor Yellow LSZH sheath Glass strands 4 fibers - Euroclass Dca 6 fibers - Euroclass Dca 8 fibers - Euroclass Dca 12 fibers - Euroclass Dca 12 fibers - Euroclass Cca 24 fibers - Euroclass Dca |
| | | | Outdoor Black PE sheath Glass strands for rodent-proofing, reinforced with corrugated steel 4 fibers 6 fibers 8 fibers 12 fibers 24 fibers |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Pack | Cat.Nos | | Multimode OM4 fiber optic cables (50/125 µm) |
|--|--|---------------------|---|
| 2000 ¹ 500 ¹ 1000 ¹ | 0 325 43 0 326 65 0 326 66 0 325 44 0 325 45 0 325 49 0 326 67 0 326 68 | Loose tube | For 50/125 µm multimode installations, OM4 type Suitable for 10 Gb Ethernet networks Bend insensitive |
| | | Tight-buffer 900 µm | Indoor/Outdoor Aqua LSZH sheath Glass strands 4 fibers - Euroclass Dca 6 fibers - Euroclass Dca - 500 m drum 6 fibers - Euroclass Dca - 1000 m drum 8 fibers - Euroclass Dca 12 fibers - Euroclass Dca 12 fibers - Euroclass Cca 12 fibers - Euroclass Dca - 1000 m drum 24 fibers - Euroclass Dca - 1000 m drum |
| | | | Outdoor Black PE sheath Glass strands for rodent-proofing, reinforced with corrugated steel 4 fibers 8 fibers 12 fibers |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Pack | Cat.Nos | | Multimode OM3 fiber optic cables (50/125 µm) |
|-------------------|--|---------------------|--|
| 2000 ¹ | 0 325 37 0 325 10 0 325 38 0 325 39 0 325 53 0 325 40 0 325 41 0 325 42 | Loose tube | For 50/125 µm multimode installations, OM3 type Suitable for 10 Gb Ethernet networks Bend insensitive |
| | | Tight-buffer 900 µm | Indoor/Outdoor Aqua LSZH sheath Glass strands Euroclass Dca 4 fibers 6 fibers 8 fibers 12 fibers 24 fibers |
| | | | Outdoor Black PE sheath Glass strands for rodent-proofing, reinforced with corrugated steel 8 fibers 12 fibers 24 fibers |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

1: in metre(s)

Legrand cabling system, LCS³ fiber optic preterminated links



1 320 41



Selection chart p.22-23

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 | 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 | 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



0 324 41



Selection chart p.22-23

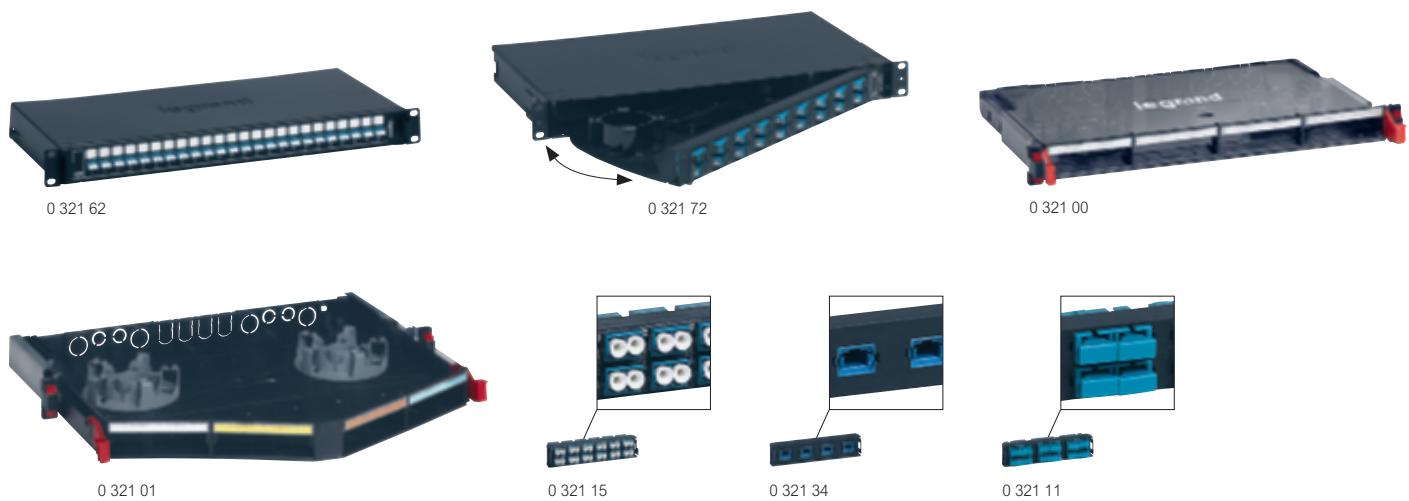
Supplied on a drum Micro cables for high density cassettes Aqua (OM3) and yellow (OS2) LSZH sheaths Supplied with test reports (photometry) Other configurations on request

| Pack | Cat.Nos | Fan-out/Fan-out preterminated High Density fiber optic links |
|---|----------|--|
| Fan-out/Fan-out OM3 micro cables | | |
| 1 | 0 324 01 | Description 6 LC duplex - 6 LC duplex Length (m) 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 | | |
| 1 | 0 324 21 | Description 6 LC duplex - 6 LC duplex Length (m) 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 |
| MTP¹/MTP¹ 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 | | |
| MTP¹ OM3 micro cables | | |
| 1 | 0 324 41 | Description 12 MTP ¹ -MTP ¹ fiber optics Length (m) 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 |
| MTP¹ OS2 micro cables | | |
| 1 | 0 324 51 | Description 12 MTP ¹ -MTP ¹ fiber optics Length (m) 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

19" fiber optic drawers



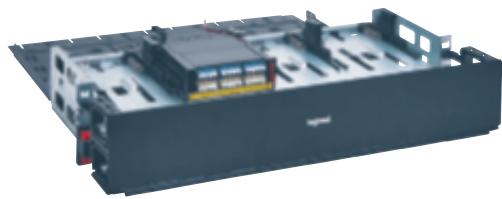
Selection chart p.14-15

| Pack | Cat.Nos | Equipped 19" fiber optic drawers | Pack | Cat.Nos | Fiber optic blocks |
|------|--|---|------|--------------------------------------|---|
| 1 | 0 321 61 1 0 321 62 1 0 321 63 1 0 321 64 1 0 321 65 1 0 321 66 1 0 321 67 | <p>Metal 19" pre-equipped fiber optic drawers, 4 cable entries, supplied with screw fixing kit, 2 cable glands (\varnothing 13.5 and 16 mm), coiling system and splice cassette</p> <p>Panel and optical ports marked on dedicated marking area</p> <p>Sliding</p> <p>End stop at a 30° angle</p> <p>Maximum capacity: 48 fibers in LC version, 24 fibers in ST and SC versions</p> <p>Depth 220 mm, height 1 U</p> <p>SC duplex for 24 multimode fibers</p> <p>LC duplex for 48 multimode fibers</p> <p>ST duplex for 24 multimode fibers</p> <p>SC duplex for 24 single-mode fibers</p> <p>LC duplex for 48 single-mode fibers</p> <p>SC APC duplex for 24 single-mode fibers</p> <p>LC APC duplex for 48 single-mode fibers</p> <p>Rotating</p> <p>Supplied with reversible left or right opening</p> <p>Maximum capacity: 72 fibers in LC version, 36 fibers in SC version</p> <p>Depth 260 mm, height 1 U</p> <p>LC duplex for 72 multimode fibers</p> <p>SC duplex for 36 multimode fibers</p> <p>LC duplex for 72 single-mode fibers</p> <p>SC duplex for 36 single-mode fibers</p> | 1 | 0 321 17 1 0 321 10 1 0 321 11 | <p>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</p> <p>Single-mode fiber blocks (9/125 μm)</p> <p>ST block for 6 single-mode fibers</p> <p>SC duplex block for 6 single-mode fibers</p> <p>SC duplex High Density block for 12 single-mode fibers</p> <p>SC APC duplex block for 6 single-mode fibers</p> <p>LC duplex block for 6 single-mode fibers</p> <p>LC duplex block for 12 single-mode fibers</p> <p>LC duplex High Density block for 24 single-mode fibers</p> <p>LC APC duplex block for 12 single-mode fibers</p> <p>Single-mode 4 MTP¹ feedthrough adaptor, key up/ key down</p> <p>Single-mode 8 MTP¹ feedthrough adaptor, key up/ key down</p> |
| 1 | 0 321 71 1 0 321 72 1 0 321 73 1 0 321 74 | <p>Flat and angled 19" modular fiber optic drawers</p> <p>Metal 19" modular fiber optic drawers, 8 cable entries, supplied with 2 cable glands (\varnothing 13.5 and 9 mm), coiling system</p> <p>Equipped with the new-generation Quick-Fix system for automatic (screwless) mounting on enclosure or cabinet uprights</p> <p>Supplied with numbered labels</p> <p>Maximum capacity: 96 fibers in LC version, 48 in SC version or 24 in ST version</p> <p>Depth 290 mm, height 1U</p> <p>Sliding, equipped</p> <p>End stop at a 20° angle</p> <p>SC duplex for 24 multimode fibers</p> <p>LC duplex for 48 multimode fibers</p> <p>SC duplex for 24 single-mode fibers</p> <p>Sliding, to be equipped with fiber optic blocks</p> <p>Takes any fiber optic block, up to 4 blocks maximum.</p> <p>End stop at a 20° angle</p> <p>Empty drawer</p> <p>Sliding, to be equipped with fiber optic blocks - angled</p> <p>Takes any fiber optic block, up to 4 blocks maximum.</p> <p>End stop at a 20° angle</p> <p>Empty drawer</p> | 1 | 0 321 27 1 0 321 20 1 0 321 21 | <p>Multimode fiber blocks (62.5 and 50/125 μm)</p> <p>ST block for 6 multimode fibers</p> <p>SC duplex block for 6 multimode fibers</p> <p>SC duplex High Density block for 12 multimode fibers</p> <p>LC duplex block for 6 multimode fibers</p> <p>LC duplex block for 12 multimode fibers</p> <p>LC duplex High Density block for 24 multimode fibers</p> <p>Multimode 4 MTP¹ feedthrough adaptor, key up/ key down</p> <p>Multimode 8 MTP¹ feedthrough adaptor, key up/ key down</p> |
| 1 | 0 321 02 1 0 321 04 1 0 321 06 | <p>Blanking plate</p> <p>Blanking plate</p> <p>Cassette for pigtail</p> <p>Capacity: 24 fibers</p> <p>Coiling kit</p> <p>1 accessory</p> | 1 | 0 321 36 1 0 321 37 | <p>RJ45 copper block for fiber optic drawer</p> <p>To be clipped directly onto modular fiber optic drawers to be equipped Cat. Nos 0 321 00/01</p> <p>Allows the mixing of fiber optic and copper</p> <p>Takes up to 5 RJ45 connectors</p> |
| 1 | 0 321 28 1 0 321 29 1 0 321 30 1 0 321 31 | <p>Accessories for fiber optic drawer to be equipped</p> <p>Accessory for receipt of a fan-out</p> <p>To be clipped onto the back of the drawer</p> <p>Enables the entry of preterminated links</p> <p>Blanking plate</p> <p>Blanking plate</p> <p>Cassette for pigtail</p> <p>Capacity: 24 fibers</p> <p>Coiling kit</p> <p>1 accessory</p> | | | |

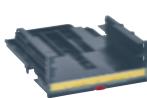
¹: MTP is a registered trademark of US Conec Ltd

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



0 321 70

Selection chart p.16-17

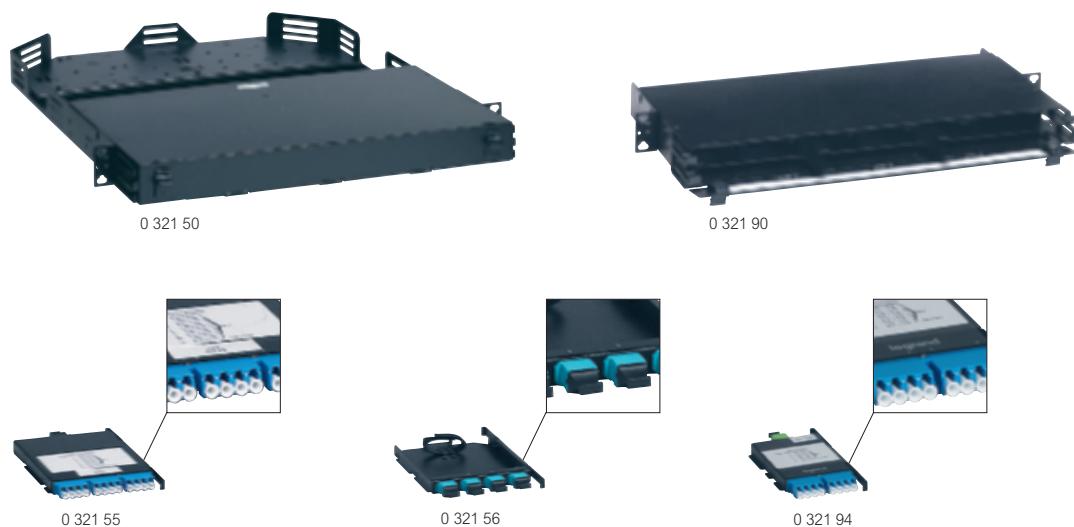
| Pack | Cat.Nos | 19" High Density fiber optic panels |
|------|----------|--|
| | | Panels to be equipped with cassettes Equipped with Quick-Fix system for automatic (screwless) mounting on enclosure or cabinet uprights To be equipped directly with a maximum of 4 automatically removable cassettes or 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 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 Set of 4 cord holders |
| 1 | 0 321 26 | 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 |
| | | 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 High-performance MTP ¹ cassettes, low insertion loss < 0.5 dB Prewired, equipped at the rear with one or two male MTP ¹ connectors with 12 fibers LC or SC connectors at the front |
| | | Cassettes Multimode OM4 cassette (50/125 µm) 24 LC fibers, A/C polarity |
| 1 | 0 321 42 | Multimode OM4 cassette (50/125 µm) 12 SC fibers, universal |
| 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 |

| Pack | Cat.Nos | Preterminated MTP ¹ High Density cassettes (MPO compatible) (continued) |
|------|-----------|--|
| 1 | 0 321 38 | Slim cassettes 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 Slim multimode OM4 cassette (50/125 µm) 12 LC fibers, Universal polarity |
| 1 | 0 321 69 | Slim multimode OM3 cassette (50/125 µm) 12 LC fibers, Universal polarity |
| 1 | 0 321 68 | Slim single-mode OS2 cassette (9/125 µm) 12 LC fibers, Universal polarity |
| 1 | 0 321 70 | Slim blanking module to be mounted (x2) on support Cat.No 0 321 38 to fill gaps in the panel |
| | | 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 pigtailed 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) Equipped with 1 SC duplex block for 6 fibers Equipped with 1 LC duplex block for 6 fibers Equipped with 1 SC duplex block for 12 fibers Equipped with 1 LC duplex block for 12 fibers |
| | | Pre-equipped cassettes for single-mode installation (9/125 µm) Equipped with 1 SC duplex block for 6 fibers Equipped with 1 LC duplex block for 6 fibers Equipped with 1 SC duplex block for 12 fibers 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 |
| 1 | 0 321 41 | Fiber optic splice cassette Takes any modular fiber optic block (p.26) |
| 1 | 0 337 57 | Blanking cassette To be used to fill gaps in the panel |
| 1 | 0 321 55 | Copper cassette to be equipped Takes six Cat. 5e, 6 and 6A copper connectors |
| | JULY 2020 | Patching kits |
| 1 | 0 321 89 | 1 U to 4 U patching kit Compatible with all LCS ³ fiber optic and copper 19" panels Supplied with top protection, cable guides and specific accessories for installation on cable trays, wire meshed cable trays (Cabolofil) and cabinets |
| 1 | 0 321 03 | Zero-U patching kit 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 RJ45 copper cassette) Supplied with a comprehensive range of accessories for fixing in or outside enclosures (raised access floors, cable trays, walls, ceiling) |

1: MTP is a registered trademark of US Conec Ltd

Legrand cabling system, LCS³ fiber optic

19" Ultra High Density fiber optic drawers

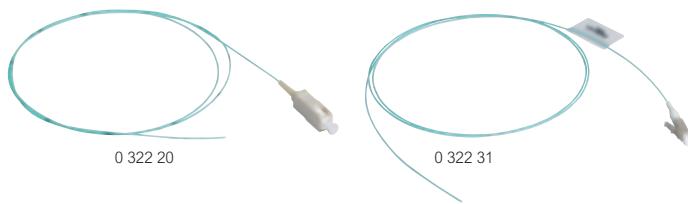


Selection chart p.18-19

| Pack | Cat.Nos | Ultra High Density modular fiber optic drawers, to be equipped with 12-fiber cassettes | Pack | Cat.Nos | Ultra High Density modular fiber optic drawers, to be equipped with 8-fiber cassettes |
|------|----------|--|------|----------|--|
| 1 | 0 321 51 | Fiber optic drawer with cord management at the front for 12-fiber cassettes 1 U Fiber optic drawers with cord management at the front and back for 12-fiber cassettes Depth: 595 mm | 1 | 0 321 90 | Fiber optic drawers with cord management at the front and back for 8-fiber cassettes Depth: 595 mm |
| 1 | 0 321 50 | 1 U | 1 | 0 321 91 | 1 U |
| 1 | 0 321 52 | 2 U | 1 | 0 321 92 | 2 U |
| 1 | 0 321 53 | 4 U | | | 4 U |
| | 0 321 54 | Ultra High Density 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 MPO cassette (MTP ¹ compatible) 12 OM4 LC fibers, polarity A/C Single-mode OS2 cassette (9/125 µm) For 9/125 µm single-mode installation, OS2 type MPO cassette (MTP ¹ compatible) 12 OS2 LC fibers, polarity A/C | 1 | 0 321 93 | Ultra High Density 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 MPO cassette (MTP ¹ compatible) 8 OM4 LC fibers, universal polarity Single-mode OS2 cassette (9/125 µm) For 9/125 µm single-mode installation, OS2 type MPO cassette (MTP ¹ compatible) 8 OS2 LC fibers, universal polarity |
| | 0 321 55 | Adaptors for 12-fiber Ultra High Density installation Clip into Ultra High Density fiber optic drawers for 12-fiber cassettes Cat. Nos 0 321 50/51/52/53 MPO adaptors (MTP¹ compatible) Multimode 4 MTP adaptor - key up/key down Single-mode 4 MTP adaptor - key up/key down LC adaptor 12 LC multimode adaptor | 1 | 0 321 95 | Adaptors for 8-fiber Ultra High Density installation Clip into Ultra High Density fiber optic drawers for 8-fiber cassettes Cat. Nos 0 321 90/91/92 MPO adaptors (MTP¹ compatible) Multimode 4 MTP adaptor - key up/key down Single-mode 4 MTP adaptor - key up/key down LC adaptors 8 LC multimode adaptor 8 LC single-mode adaptor 8 LC-APC single-mode adaptor |
| | 0 321 56 | | | 0 321 96 | |
| 1 | 0 321 57 | | 1 | 0 321 97 | |
| 1 | 0 321 58 | | 1 | 0 321 98 | |
| | | | 1 | 0 321 99 | |

¹: MTP is a registered trademark of US Conec zLtd

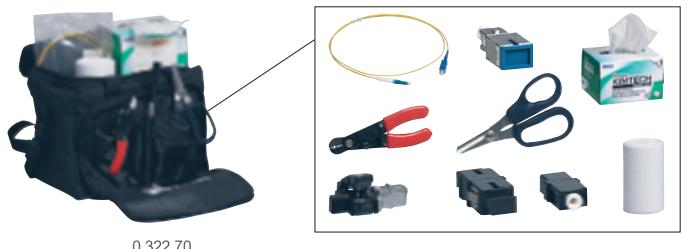
Legrand cabling system, LCS³ fiber optic pigtailed, glue-on connectors and fan-out units



Selection chart p.20-21

| Pack | Cat.Nos |
|------|---|
| | 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 |
| 1 | 1 m 0 322 10 0 322 13 |
| 1 | 0 322 11 0 322 14 |
| 1 | 0 322 12 0 322 15 |
| 1 | 0 322 20 0 322 23 |
| 1 | 0 322 21 0 322 24 |
| 1 | 0 322 22 |
| 1 | 0 322 30 0 322 33 |
| 1 | 0 322 31 0 322 34 |
| 1 | 0 322 32 |
| | 50/125 µm - OM2 (PC) SC connectors LC connectors ST connectors |
| | 50/125 µm - OM3 (PC) SC connectors LC connectors ST connectors |
| | 50/125 µm - OM4 (PC) SC connectors LC connectors ST connectors |
| | 9/125 µm - OS2 (APC or UPC) - OS1 compatible SC-APC connectors SC-UPC connectors LC-APC connectors LC-UPC connectors ST-UPC connectors |
| 1 | 0 322 40 0 322 45 |
| 1 | 0 322 41 0 322 46 |
| 1 | 0 322 42 0 322 48 |
| 1 | 0 322 43 0 322 47 |
| 1 | 0 322 44 0 322 49 |
| | Sets of 12 LC pigtails 1m length - 12 different colors 12 OS2 LC-UPC pigtails 12 OM3 LC-UPC pigtails 12 OM4 LC-UPC pigtails |
| 1 | 0 326 24 |
| 1 | 0 326 26 |
| 1 | 0 326 71 |
| 1 | 0 327 44 |
| | Heat-shrinkable sleeve for pigtails 40 mm - pack of 50 sleeves |
| 10 | 0 331 27 |
| 10 | 0 331 47 |
| 10 | 0 331 00 |
| | 50/125 and 62,5/125 µm glue-on connectors Supplied with 900 µm sleeve Connectors with ceramic ferrule Typical attenuation: 0.3 dB ST connectors SC connectors LC connectors |
| 1 | 0 330 48 |
| 1 | 0 330 49 |
| | Fan-out units For 900 µm sheathing of optical fibers Take 250 µm fiber diameters 6-fiber fan-out unit 12-fiber fan-out unit |

Legrand cabling system, LCS³ fiber optic case and quick-connect connectors



| Pack | Cat.Nos |
|------|--|
| 1 | Tool case for preparing optical fiber for quick-connect fiber optic connectors 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) |

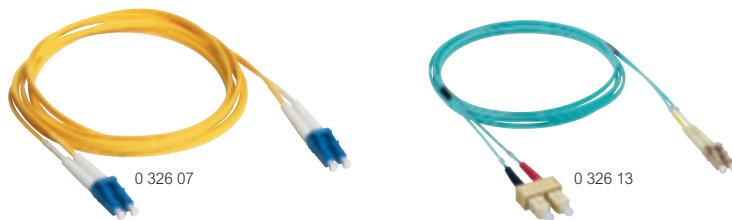
| | |
|---|--|
| | Quick-connect connectors Connection can be made with case Cat.No 0 322 70 Quick-connect, reliable and reusable up to 5 times To be used to lock the fiber inside the connector An indicator light is used to test the connection No glue or polishing needed Can be installed on 900 µm fiber 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) |
| 1 | OM3/OM4 multimode connectors Set of 12 connectors |
| 1 | LC PC 50/125 µm, 900/250 µm |
| 1 | SC PC 50/125 µm, 900/250 µm |
| 1 | OS2 single-mode connectors Set of 12 connectors |
| 1 | LC UPC 9/125 µm, 900/250 µm |
| 1 | SC UPC 9/125 µm, 900/250 µm |
| 1 | SC APC 9/125 µm, 900/250 µm |

| | |
|---|--|
| | Precision cleaver for updating case Cat. No 0 326 90 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 |
| 1 | Fiber optic cleaning accessories 1 MPO/MTP ¹ ferrule cleaner 1 LC ferrule cleaner (PC/APC) 1 SC ferrule cleaner (PC/APC) 1 LC replacement cartridge 1 SC replacement cartridge 1 Fiber stripper 1 Wipes 1 Cleaning spray |

¹: MTP is a registered trademark of US Conec LtdWW

Legrand cabling system, LCS³ fiber optic

patch cords and feedthrough sockets



Selection chart p.20-21

Fitted at each end with 2 connectors with ceramic ferrule. Individually packed and tested (report supplied). LSZH Zipcord sheath
Other configurations on request

| Pack | Cat.Nos | OS1/OS2 single-mode fiber optic cords (9/125 µm) | Pack | Cat.Nos | OM2 multimode fiber optic cords (50/125 µm) |
|------|----------|---|------|----------|--|
| | | Max. optical losses/Master: 0.25 dB For 9/125 µm single-mode installations, OS1/OS2 type. Yellow sheaths | | | Max. optical losses/Master: 0.25 dB For 50/125 µm multimode installation, OM2 type Orange sheaths |
| 3 | 0 326 00 | SC/SC duplex cords Length: 1 m | 3 | 0 330 80 | ST/ST duplex cords Length: 1 m |
| 3 | 0 326 01 | Length: 2 m | 3 | 0 330 81 | Length: 2 m |
| 3 | 0 326 02 | Length: 3 m | 3 | 0 330 82 | Length: 3 m |
| 3 | 0 326 03 | SC/LC duplex cords Length: 1 m | 3 | 0 330 69 | SC/SC duplex cords Length: 1 m |
| 3 | 0 326 04 | Length: 2 m | 3 | 0 330 70 | Length: 2 m |
| 3 | 0 326 05 | Length: 3 m | 3 | 0 330 71 | Length: 3 m |
| 3 | 0 326 28 | LC/LC duplex cords Length: 0.5 m | 3 | 0 330 72 | ST/SC duplex cords Length: 2 m |
| 3 | 0 326 06 | Length: 1 m | 3 | 0 330 73 | Length: 3 m |
| 3 | 0 326 07 | Length: 2 m | 3 | 0 330 61 | LC/LC duplex cord Length: 2 m |
| 3 | 0 326 08 | Length: 3 m | 3 | 0 330 75 | SC/LC duplex cords Length: 1 m |
| 3 | 0 326 29 | Length: 5 m | 3 | 0 330 63 | Length: 2 m |
| 3 | 0 326 86 | LC/LC Uniboot duplex cords Reversible polarity | 3 | 0 330 76 | Length: 3 m |
| 3 | 0 326 87 | Length: 1 m | 3 | 0 330 65 | LC/ST duplex cord Length: 2 m |
| 3 | 0 326 88 | Length: 2 m | | | |
| 3 | 0 326 89 | Length: 3 m | | | |
| 3 | 0 326 92 | Length: 5 m | | | |
| | | Length: 10 m | | | |
| | | OM4 multimode fiber optic cords (50/125 µm) | | | Fiber optic feedthrough sockets |
| | | Suitable for 10 Gb Ethernet networks Max. optical losses/Master: 0.15 dB For 50/125 µm multimode installation, OM4 type Aqua sheaths | | | Equipped with a duplex feedthrough To be used to connect two fibers (equipped with their connector) Supplied with protection caps Equipped with a transparent marker-holder 2 modules |
| 3 | 0 326 30 | SC/SC duplex cords Length: 1 m | 1 | 0 786 16 | 2 x ST socket Bayonet connection (STII compatible) |
| 3 | 0 326 31 | Length: 2 m | | | ○ White |
| 3 | 0 326 32 | Length: 3 m | 1 | 0 786 17 | 2 x SC socket Push-pull connection |
| 3 | 0 326 33 | LC/LC duplex cords Length: 0.5 m | | | ○ White |
| 3 | 0 326 34 | Length: 1 m | 1 | 0 786 18 | 2 x LC socket Push-pull connection |
| 3 | 0 326 35 | Length: 2 m | | | ○ White |
| 3 | 0 326 36 | Length: 3 m | 1 | 0 786 14 | 2 x SC/APC socket Push-pull connection With shutters |
| 3 | 0 326 37 | Length: 5 m | | | ○ White |
| 3 | 0 326 95 | LC/LC Uniboot duplex cords Reversible polarity | | | |
| 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 | | | |
| | | Length: 10 m | | | |
| | | OM3 multimode fiber optic cords (50/125 µm) | | | |
| | | Suitable for 10 Gb Ethernet networks Max. optical losses/Master: 0.25 dB For 50/125 µm multimode installation, OM3 type Aqua sheaths | | | |
| 3 | 0 326 09 | SC/SC duplex cords Length: 1 m | | | |
| 3 | 0 326 10 | Length: 2 m | | | |
| 3 | 0 326 11 | Length: 3 m | | | |
| 3 | 0 326 12 | SC/LC duplex cords Length: 1 m | | | |
| 3 | 0 326 13 | Length: 2 m | | | |
| 3 | 0 326 14 | Length: 3 m | | | |
| 3 | 0 326 15 | LC/LC duplex cords Length: 1 m | | | |
| 3 | 0 326 16 | Length: 2 m | | | |
| 3 | 0 326 17 | Length: 3 m | | | |

Legrand cabling system, LCS³ fiber optic

Duplex applications, functioning on Duplex LC

| Duplex | OM3 | OM4 | OM5 | OS1a | OS2 |
|---------|---------------------|---------------------|---------------------|--------------------|---------------------|
| 10Gbps | 300m ⁽¹⁾ | 400m ⁽¹⁾ | 400m ⁽¹⁾ | 2km ⁽¹⁾ | 10km ⁽¹⁾ |
| 25Gbps | 70m ⁽¹⁾ | 100m ⁽¹⁾ | 100m ⁽¹⁾ | 2km ⁽¹⁾ | 10km ⁽¹⁾ |
| 40Gbps | 240m ⁽²⁾ | 350m ⁽²⁾ | 440m ⁽²⁾ | 2km ⁽¹⁾ | 10km ⁽¹⁾ |
| 50Gbps | 70m ⁽¹⁾ | 100m ⁽¹⁾ | 100m ⁽¹⁾ | 2km ⁽¹⁾ | 10km ⁽¹⁾ |
| 100Gbps | 70m ⁽²⁾ | 100m ⁽²⁾ | 150m ⁽²⁾ | 2km ⁽¹⁾ | 10km ⁽¹⁾ |
| 200Gbps | N/A ⁽³⁾ | N/A ⁽³⁾ | N/A ⁽³⁾ | 2km ⁽¹⁾ | 10km ⁽¹⁾ |
| 400Gbps | N/A ⁽³⁾ | N/A ⁽³⁾ | N/A ⁽³⁾ | 2km ⁽¹⁾ | 10km ⁽¹⁾ |

1: Standard

2: Multi-Source Agreement

3: Not applicable

Parallel optics applications, functioning on 12-core MPO/MTP

| Parallel | OM3 | OM4 | OM5 | OS1a | OS2 |
|----------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 10Gbps | N/A ⁽²⁾ |
| 25Gbps | N/A ⁽²⁾ |
| 40Gbps | 100m ⁽¹⁾ | 150m ⁽¹⁾ | 150m ⁽¹⁾ | N/A ⁽²⁾ | N/A ⁽²⁾ |
| 50Gbps | N/A ⁽²⁾ |
| 100Gbps | 70m ⁽¹⁾ | 100m ⁽¹⁾ | 100m ⁽¹⁾ | 500m ⁽¹⁾ | 500m ⁽¹⁾ |
| 200Gbps | 70m ⁽¹⁾ | 100m ⁽¹⁾ | 100m ⁽¹⁾ | 500m ⁽¹⁾ | 500m ⁽¹⁾ |
| 400Gbps | 100m ⁽¹⁾ | 100m ⁽¹⁾ | 150m ⁽¹⁾ | 500m ⁽¹⁾ | 500m ⁽¹⁾ |

1: Standard

2: Not applicable

16, 20 and 32 core applications not shown as they are not compatible with single 12-core MPO links

Note that any duplex application can also function on MPO/MTP parallel optics infrastructure

Technical characteristics

Pigtail

| Insertion loss (IL), dB | Multimode | Singlemode |
|--|-----------|------------|
| IL max. against Master. Standard | 0.60 | 0.65 |
| IL max. against Master. Legrand guarantee | 0.25 | 0.25 |
| IL max. against Random. Standard | 0.75 | 0.75 |
| IL typical against Random. Legrand guarantee | 0.20 | 0.18 |

Multimode cable

OM5 fiber is designed for wavelength multiplexing

| Type of cable | OM3 | OM4 | OM5 |
|---|-------|-------|-------|
| Type of fiber ¹⁾ | A1a.2 | A1a.3 | A1a.4 |
| Maximum attenuation at 850 nm, dB/km | 3.5 | 3.5 | 3 |
| Effective bandwidth at 850 nm, MHz x km | 2000 | 4700 | 4700 |
| Effective bandwidth at 953 nm, MHz x km | N/A | N/A | 2470 |

1: According to IEC 60793-2-10

Single-mode cable

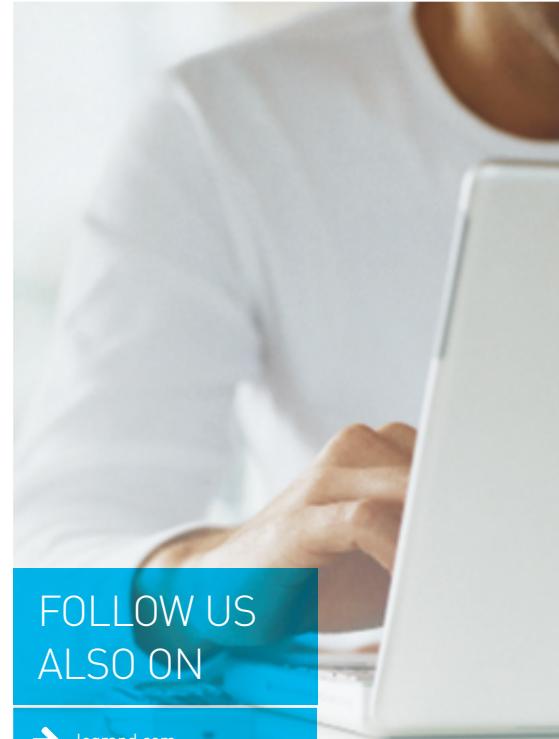
| Type of cable | OS1a | OS2 |
|---|------------|-----------------|
| Environment | Indoor | Indoor/ Outdoor |
| Type of fiber ⁽¹⁾ | B1.3 or B6 | |
| Maximum attenuation at 1310, 1383 and 1550 nm | 1.0 | 0.4 |

1: According to IEC 60793-2-50

Euroclass table

| Cat.Nos | Euroclass (A _{ca} ; B1 _{ca} ; B2 _{ca} ; C _{ca} ; D _{ca} ; E _{ca} ; F _{ca}) | Additional criteria (smoke production, flaming droplets, acidity) | | |
|----------|--|---|------------|------------|
| | | s1, s1a, s1b, s2, s3 | d0, d1, d2 | a1, a2, a3 |
| 0 325 02 | D _{ca} | s2 | d2 | a1 |
| 0 325 03 | D _{ca} | s2 | d2 | a1 |
| 0 325 10 | D _{ca} | s2 | d2 | a1 |
| 0 325 11 | D _{ca} | s2 | d2 | a1 |
| 0 325 12 | D _{ca} | s2 | d2 | a1 |
| 0 325 13 | Not applicable | - | - | - |
| 0 325 14 | D _{ca} | s2 | d2 | a1 |
| 0 325 15 | Not applicable | - | - | - |
| 0 325 23 | Not applicable | - | - | - |
| 0 325 24 | Not applicable | - | - | - |
| 0 325 25 | Not applicable | - | - | - |
| 0 325 26 | C _{ca} | s1a | d1 | a1 |
| 0 325 37 | D _{ca} | s2 | d2 | a1 |
| 0 325 38 | D _{ca} | s2 | d2 | a1 |
| 0 325 39 | D _{ca} | s2 | d2 | a1 |
| 0 325 40 | Not applicable | - | - | - |
| 0 325 41 | Not applicable | - | - | - |
| 0 325 42 | Not applicable | - | - | - |
| 0 325 43 | D _{ca} | s2 | d2 | a1 |
| 0 325 44 | D _{ca} | s2 | d2 | a1 |
| 0 325 45 | D _{ca} | s2 | d2 | a1 |
| 0 325 46 | Not applicable | - | - | - |
| 0 325 47 | Not applicable | - | - | - |
| 0 325 48 | Not applicable | - | - | - |
| 0 325 49 | C _{ca} | s1a | d1 | a1 |
| 0 325 50 | D _{ca} | s2 | d2 | a1 |
| 0 325 51 | D _{ca} | s2 | d2 | a1 |
| 0 325 52 | D _{ca} | s2 | d2 | a1 |
| 0 325 53 | D _{ca} | s2 | d2 | a1 |
| 0 326 65 | D _{ca} | s2 | d2 | a1 |
| 0 326 66 | D _{ca} | s2 | d2 | a1 |
| 0 326 67 | D _{ca} | s2 | d2 | a1 |
| 0 326 68 | D _{ca} | s2 | d2 | a1 |

| | Euroclass | Classification criteria | Additional criteria | AV CP system |
|---|------------------|------------------------------------|--|---|
| Non-combustible (for example mineral-insulated) | A _{ca} | EN ISO 1716 Gross combustion heat | - | "1+" including: - initial type test and continuous monitoring - audit and sampling test by a third-party certification body |
| Cables with low fire risk (different levels) | B1 _{ca} | EN 50399 Heat release Flame spread | Smoke production (s1a, s1b, s2, s3) EN50399/ EN61034-2 | |
| | C _{ca} | EN 60332-1-2 Flame propagation | Acidity (a1, a2, a3) EN 50267-2-3 | |
| | D _{ca} | EN 60332-1-2 Flame propagation | Flaming droplets (d0, d1, d2) EN 50399 | "3+" including: - initial type test by a third-party laboratory Manufacturer's factory production controls |
| Standard cables | E _{ca} | EN 60332-1-2 Flame propagation | - | Manufacturer's factory production controls |
| No determined performance | F _{ca} | EN 60332-1-2 Flame propagation | - | "4": initial type test and manufacturer's factory production controls |



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