

Workstation solutions

POWER AND DATA DISTRIBUTION
FOR THE OFFICE ENVIRONMENT



GUIDE



 **legrand®**

Workstation solutions

In order to guarantee convenience and performance for users in office buildings, workstations and different areas must be fitted with solutions that can be fully adjusted to different building infrastructures and still meet user's connectivity and mobility needs.

“
DISTRIBUTING CURRENTS
AND FITTING OUT WORKSTATIONS
IN ANY KIND OF
BUILDING INFRASTRUCTURE
”

Throughout this brochure Legrand presents all its solutions for supplying and fitting out workstations in any kind of building infrastructure: **raised floor, flush floor, screed floor and false ceiling and wall.**

The “**Case studies**” section provides some workstation examples for “open space” offices, meeting rooms, individual work spaces...

The “**Power and data distribution and connection**” section presents all systems for routing power and data circuits.

The “**More information**” all features and benefits, plus technical and implementation information on the cable management systems, please ask for technical catalogue.

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Infrastructure and equipment supplied through the floor

Legrand's solution for distributing power and data to workstations depending on the building's existing floor type.

> Distribution:

For concrete floors:

- Screed floor raceway system

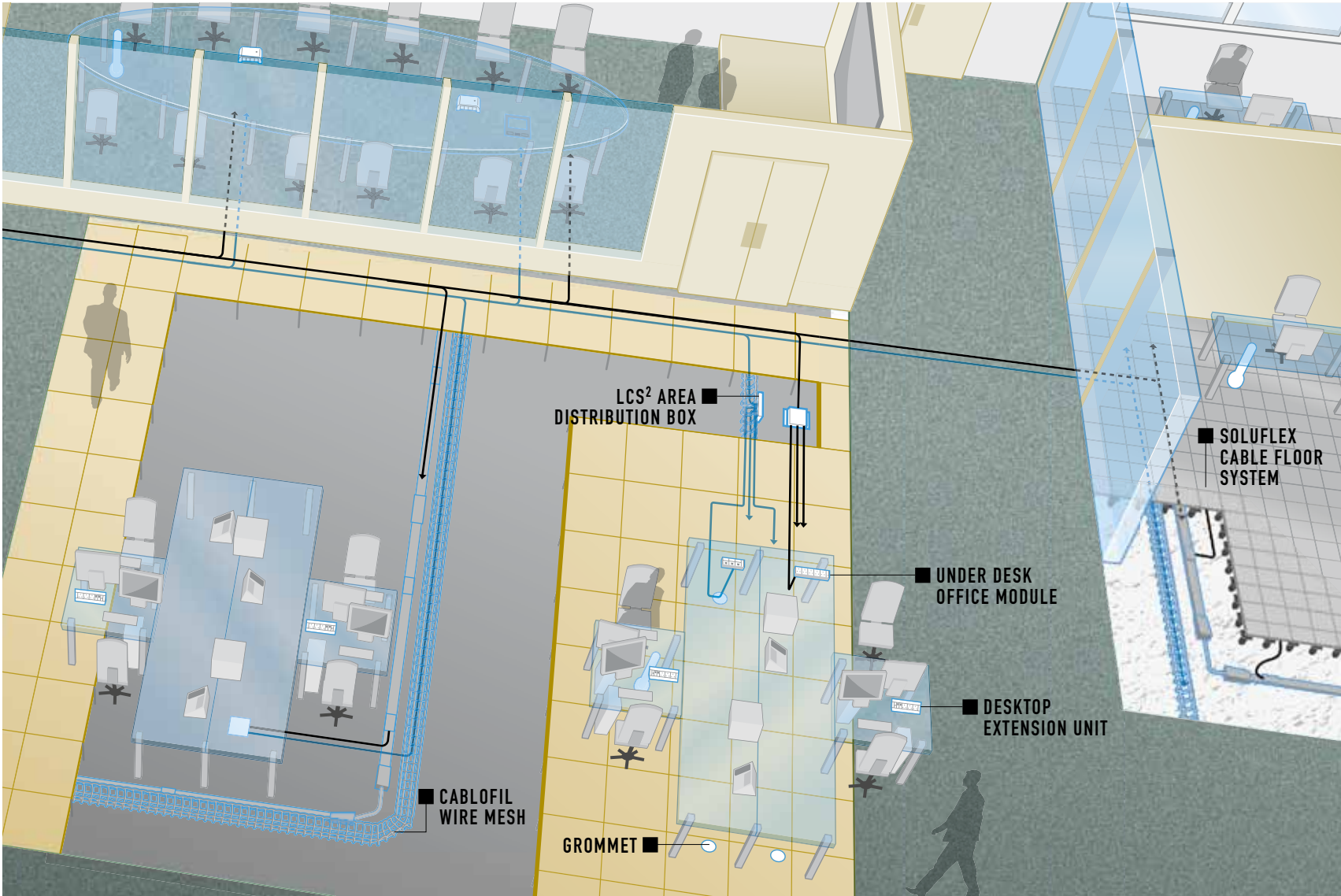
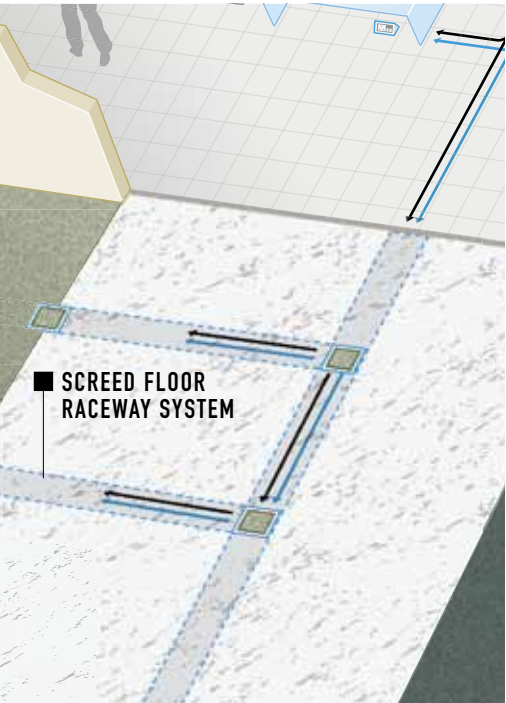
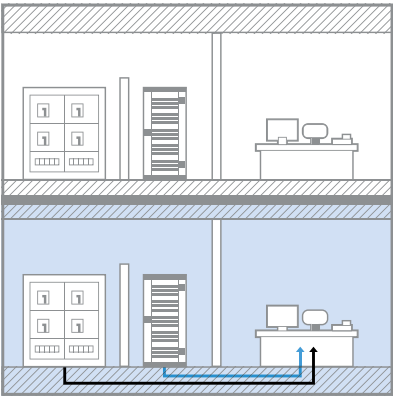
For traditional raised access floors

- Soluflex cable floor system

- Cablofil wire mesh cable trays

> Connection:

- Floor boxes
- Snap-on mini column
- Grommet
- Under desk office module
- Desktop extension unit
- LCS² area distribution box



Infrastructure and equipment supplied through the false ceiling and the walls

Legrand offers flexible and scalable solutions to ensure distribution of power and data through false ceilings and walls. All systems take high and low current functions to connect devices dedicated for workstation operation.

> Distribution:

On false ceilings:

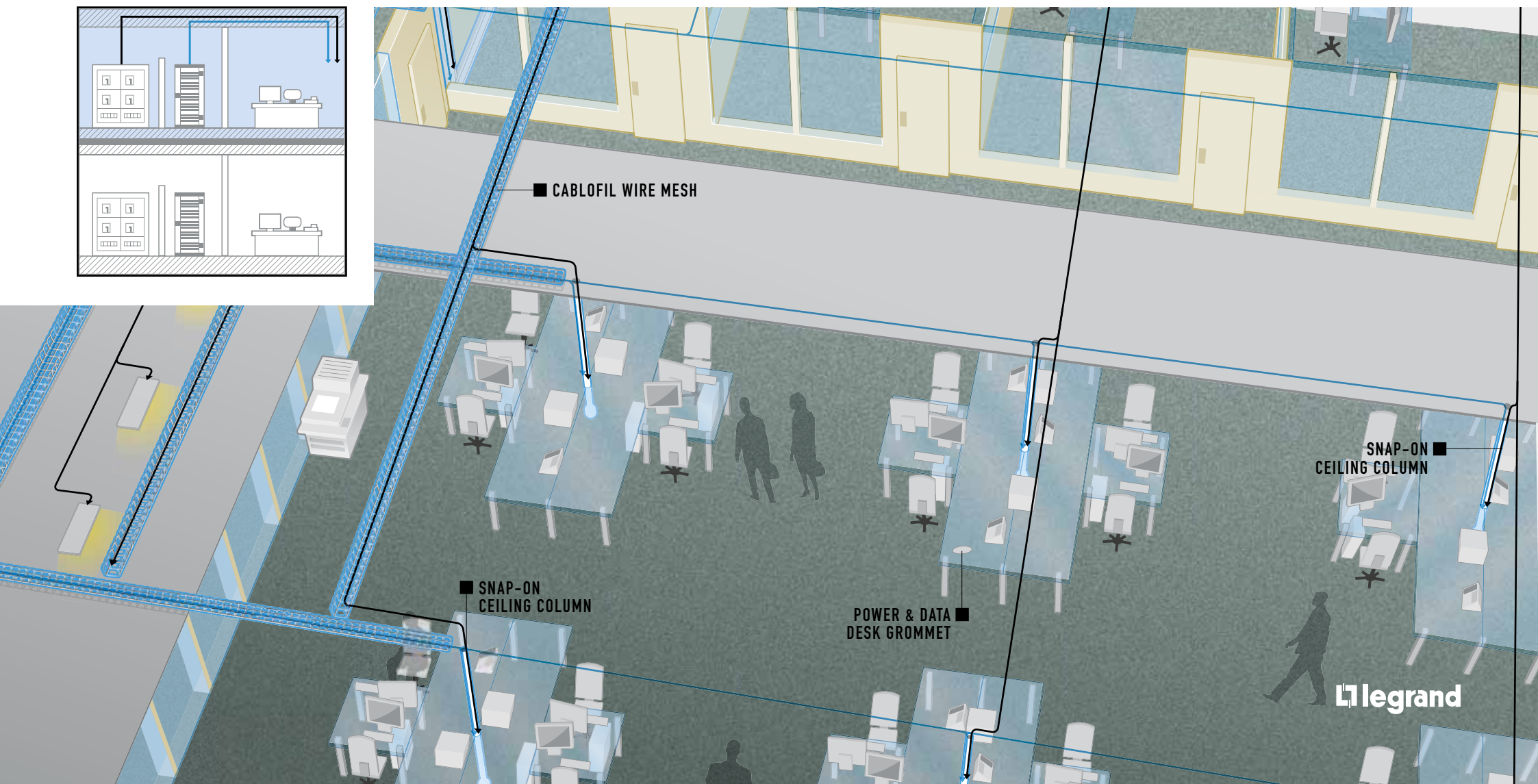
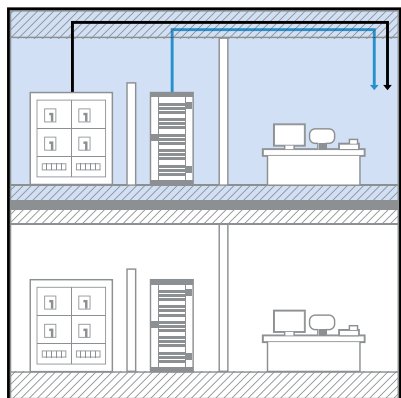
- Cablofil wire mesh
- Snap-on ceiling column & Snap-on mini column

Wall-mounted:

- DLP wall trunking system- U-PVC, aluminium & Snap-on
- Cablofil wiremesh cable trays

> Connection:

- Pop-up box
- Power & data desk grommet
- Desktop extension unit



Case studies

Depending on whether it is desk-bound or mobile, each workstation requires equipment that is suited for the specific needs and applications of each users.

Using the six case studies, discover some different configuration possibilities for office areas, workstation equipment and distribution solutions for power and data.



OPEN SPACE SUPPLIED THROUGH THE FLOOR



> EXAMPLE OF EQUIPMENT ... p. 06

Cablofil for under desk office modules
 Snap-on mini-columns
 Grommets & Soluflex
 Cablofil wire mesh cable trays
 Desktop extension unit with RJ 45 and Indian standard sockets
 Floor box
 Power & data desk grommet

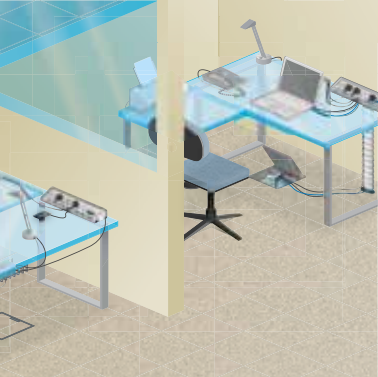
OPEN SPACE SUPPLIED THROUGH THE CEILING



> EXAMPLE OF EQUIPMENT ... p. 07

Snap-on ceiling columns
 Desktop extension units
 RJ 45 and Indian standard sockets

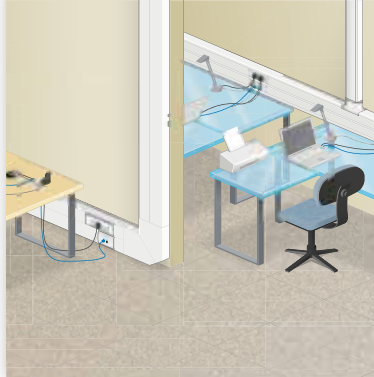
INDIVIDUAL WORKSPACES SUPPLIED THROUGH THE FLOOR



> EXAMPLE OF EQUIPMENT p. 08

Floor boxes for carpet
 Cablofil for under desk office modules
 Cable worms
 Desktop extension unit with RJ 45 and Indian standard sockets

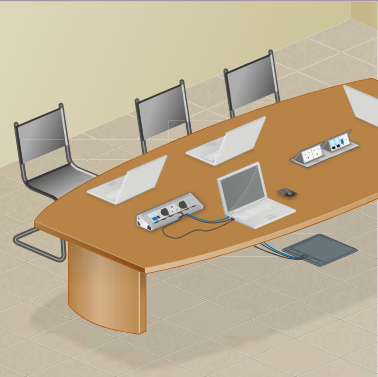
INDIVIDUAL WORKSPACES SUPPLIED THROUGH THE CEILING



> EXAMPLE OF EQUIPMENT ... p. 09

DLP U-PVC & aluminium wall trunking
 DLP wall snap-on trunking
 Desktop extension unit with RJ 45 and Indian standard sockets
 Power & data desktop grommet with phone charger, RJ 45 retractable cord and Indian standard socket

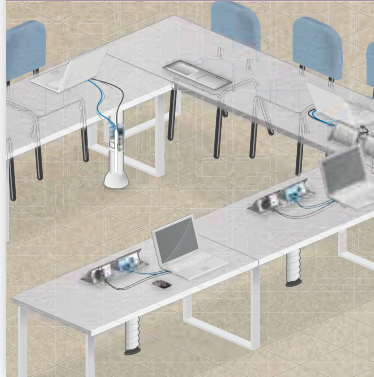
CENTRAL TABLE MEETING ROOMS



> EXAMPLE OF EQUIPMENT ... p. 10

Meeting room multi-outlet
 desktop extension unit with RJ 45, HD 15 with audio jack and Indian standard sockets
 Pop-up boxes
 Floor boxes for carpet

"U" SHAPE MEETING ROOMS

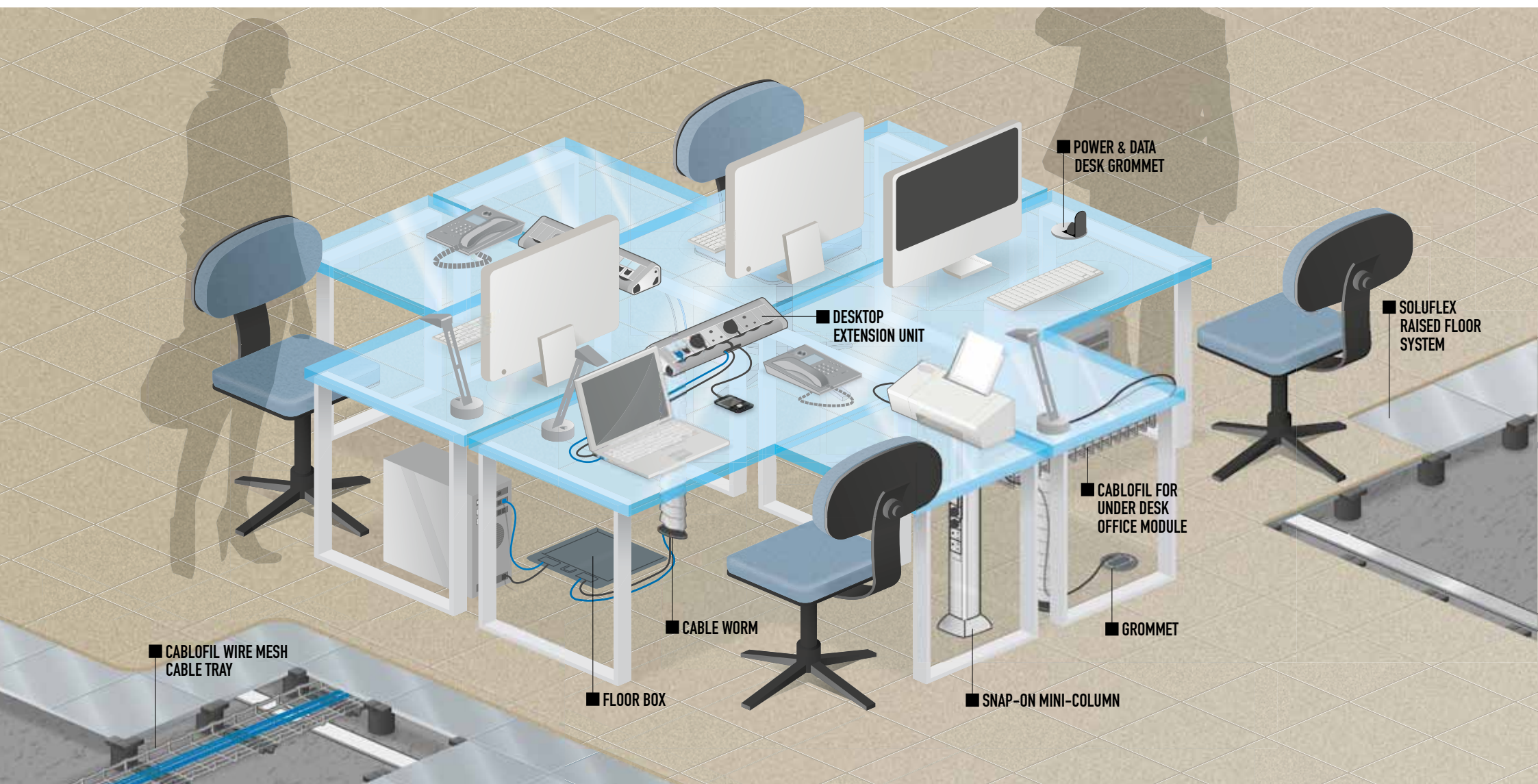


> EXAMPLE OF EQUIPMENT ... p. 11

Floor boxes for carpet
 Cable worms
 Snap-on mini-columns
 Desktop extension unit with RJ 45 and Indian standard sockets
 Pop-up boxes

Open space supplied through the floor

Desktop extension units, cablofil for under desk modules, snap-on mini-columns and floor boxes to meet distribution needs for both power and data via the raised access floor. These products can be used for connecting computers, printers, scanners, telephones etc. and can be combined offering greater flexibility for desk-bound users and providing them with optimum comfort.



■ CABLOFIL WIRE MESH CABLE TRAY

■ FLOOR BOX

■ CABLE WORM

■ DESKTOP EXTENSION UNIT

■ SNAP-ON MINI-COLUMN

■ GROMMET

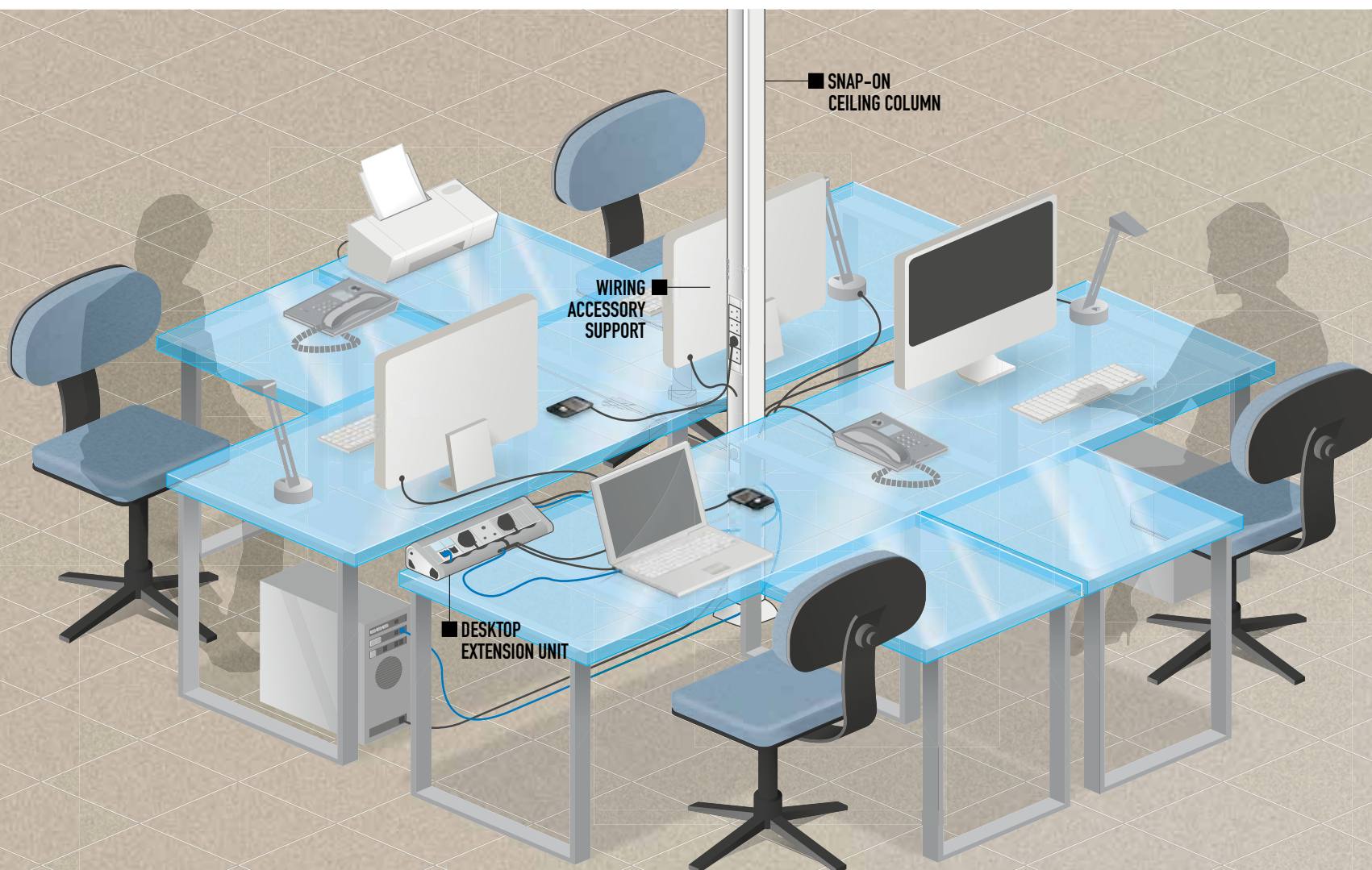
■ CABLOFIL FOR UNDER DESK OFFICE MODULE

■ POWER & DATA DESK GROMMET

■ SOLUFLEX RAISED FLOOR SYSTEM

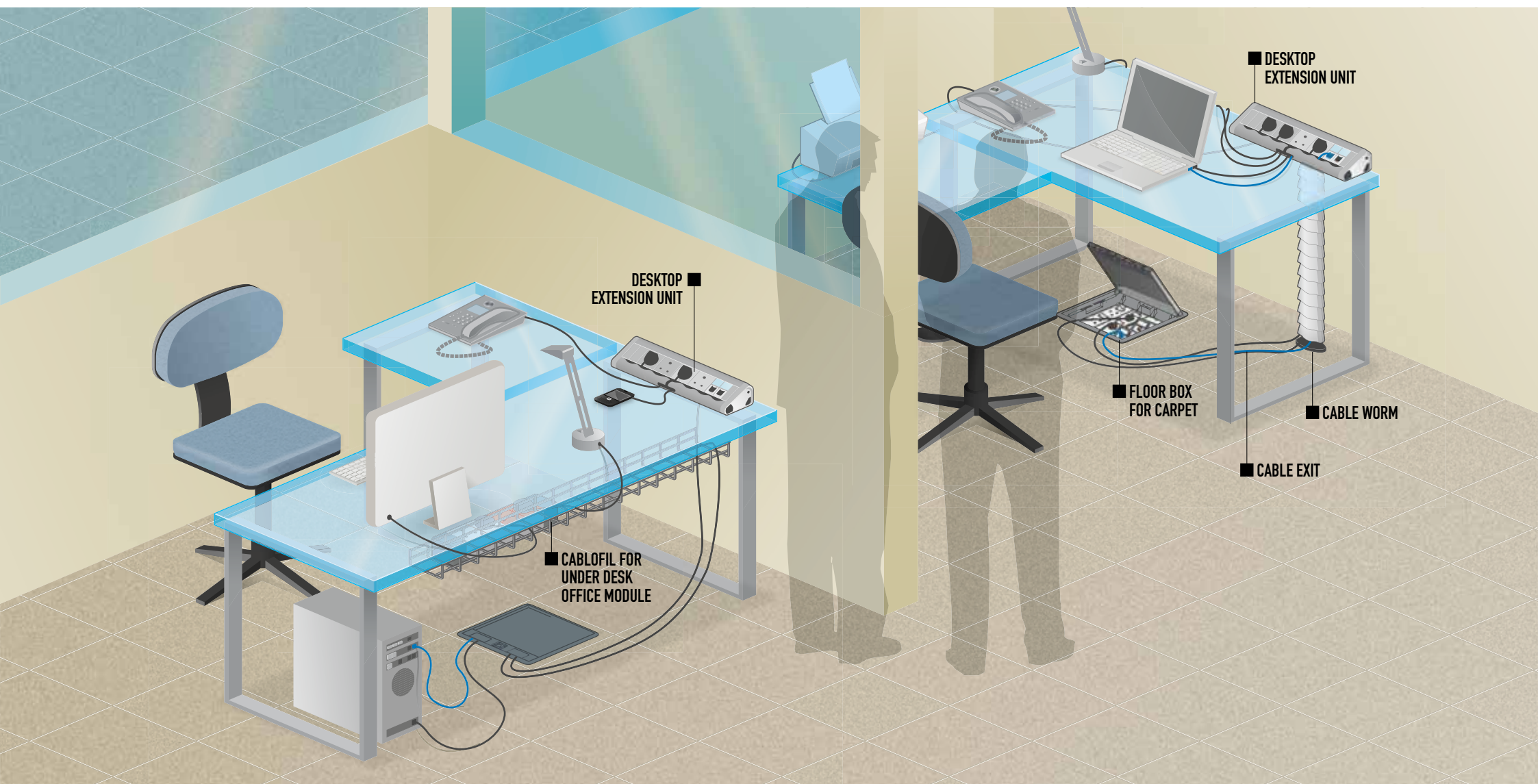
Open space supplied through the ceiling

By distributing power and data through the false ceiling, the snap-on ceiling columns can feed multiple workstations within large areas such as open space offices. The snap-on ceiling columns guarantee real installation flexibility and make extensions easier by simply adding further wiring accessory supports.



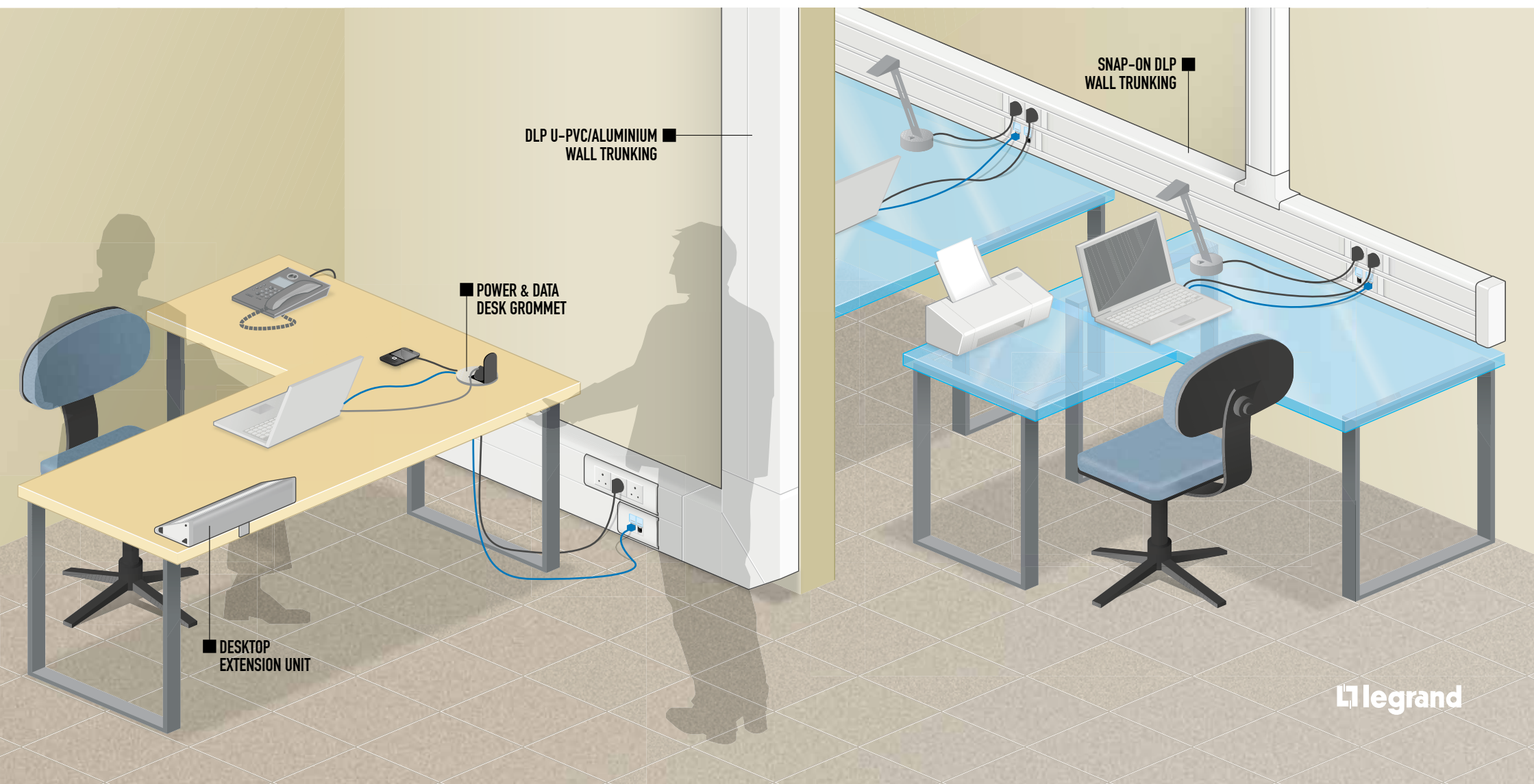
Individual work spaces supplied through the floor

The desktop extension units provide real convenience for desk-bound users by supplying power and data directly to the desktop. The floor boxes are suitable for both permanent and occasional use. They can be used in conjunction with cablofil for under desk office modules to meet the connection requirements of different workstations in total discretion.



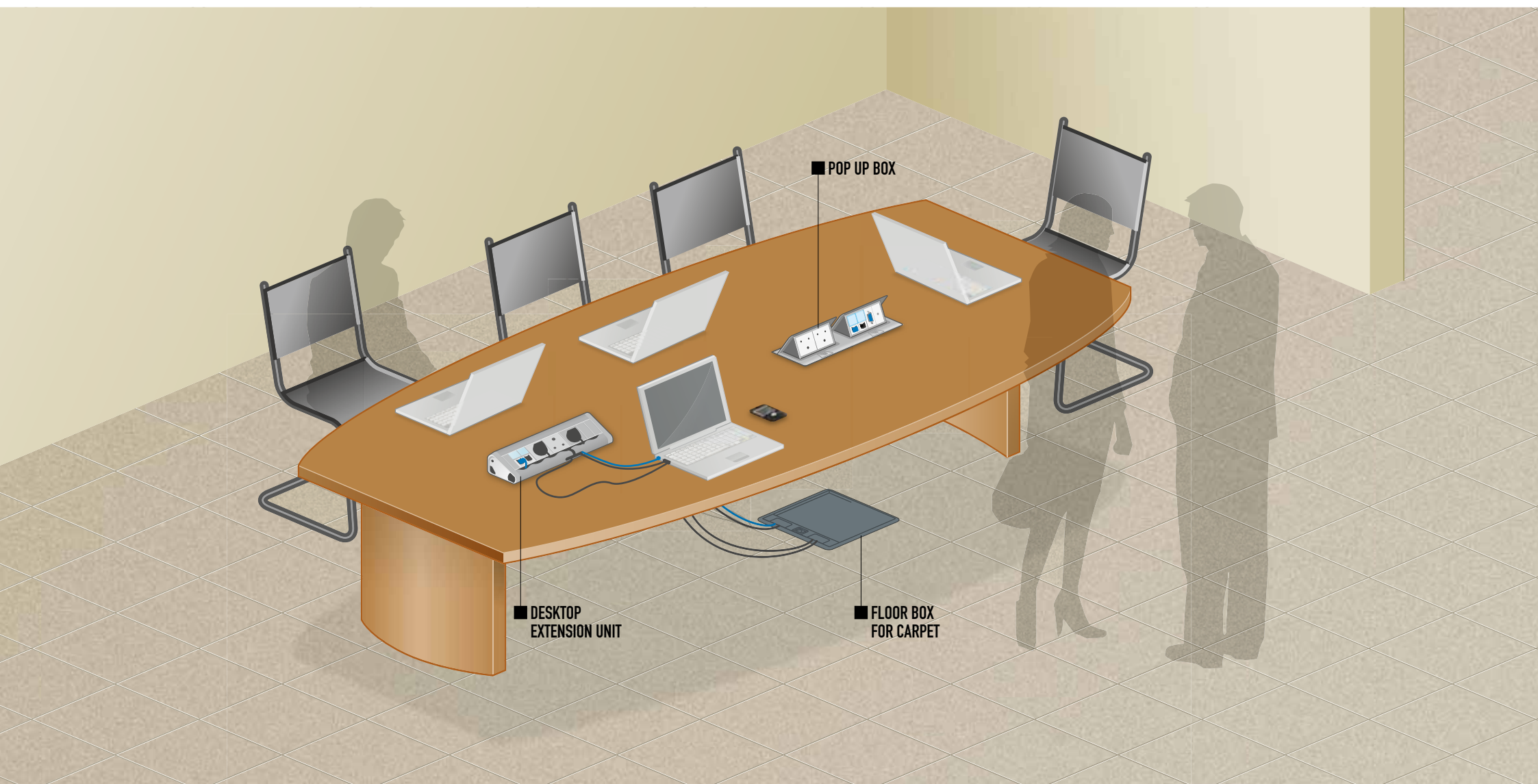
Individual work spaces supplied through the ceiling

The different ranges of DLP U-PVC/Snap-on/aluminium wall trunking are ideal, particularly for refurbishment projects. They distribute power and data without major changes of the existing electrical installation. The installation can be easily upgraded when office space is being reconfigured by adding or changing location of wiring devices all along the trunking.



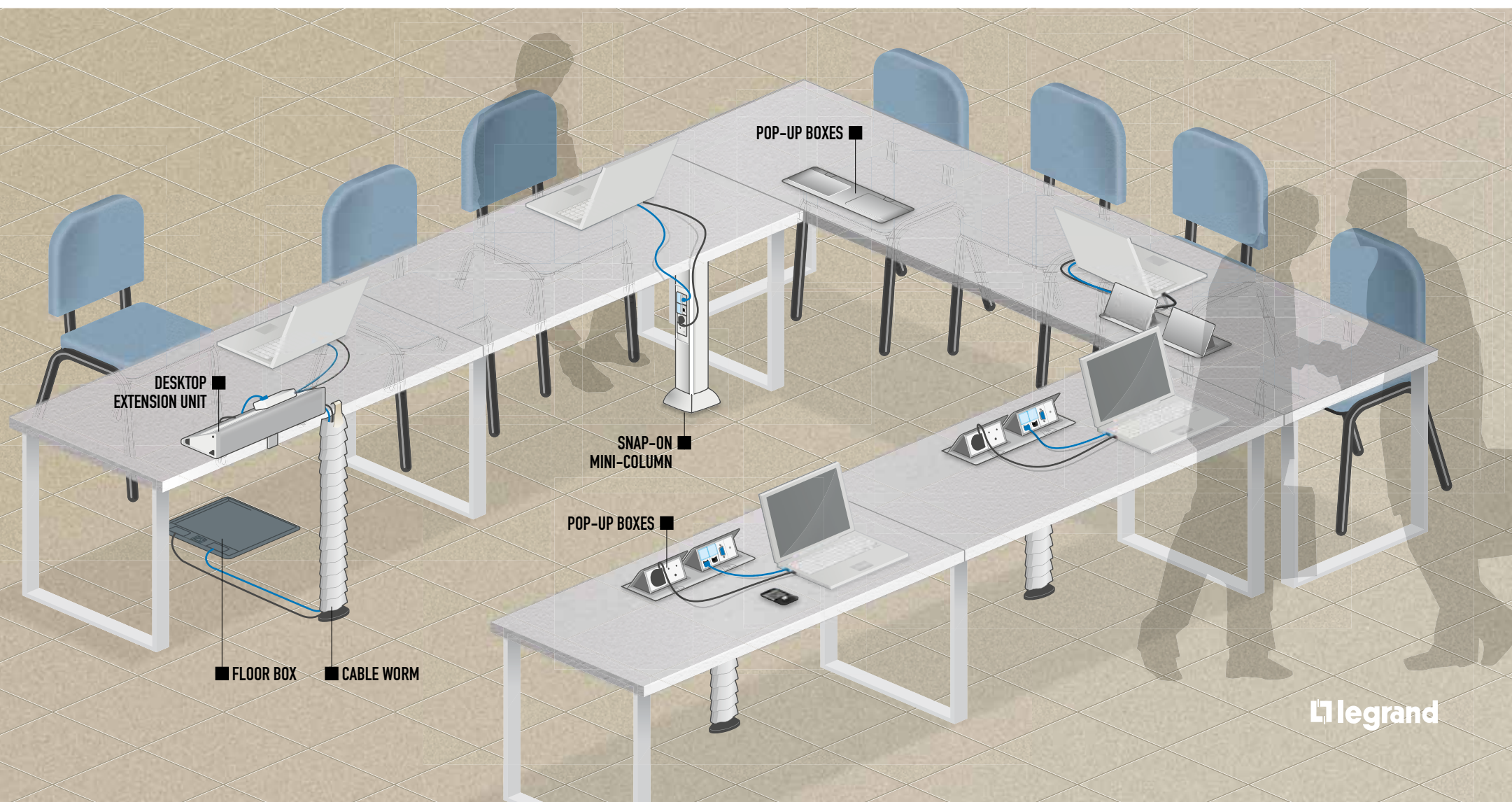
Meeting rooms with central table

A turn key solution perfectly suited to the specific connection needs of mobile users in meeting rooms. Users have a choice of high and low current connections, as well as audio and video points, for connecting dedicated equipment.



Meeting rooms with “U” shape

Desktop extension units, snap-on mini-columns, floor and pop-up boxes make mobile and temporary use of computer equipment and video projectors easier. These products are extremely convenient to use in meeting and conference rooms. They can be used to connect and disconnect equipment easily and guarantee that visitors will be operational straight away.



Power and data distribution and connection

An adaptable and flexible technical infrastructure is a key to the performance in the organisations. Legrand offers a solution for distribution of power and data regardless of building infrastructure, using concrete floor, raised access floor, wall or false ceiling.



RAISED ACCESS FLOOR SYSTEMS



> DISTRIBUTION p. 14

> CONNECTION p. 16

SCREED FLOOR SYSTEM



> DISTRIBUTION p. 18

> CONNECTION p. 20

WALL AND CEILING SYSTEMS

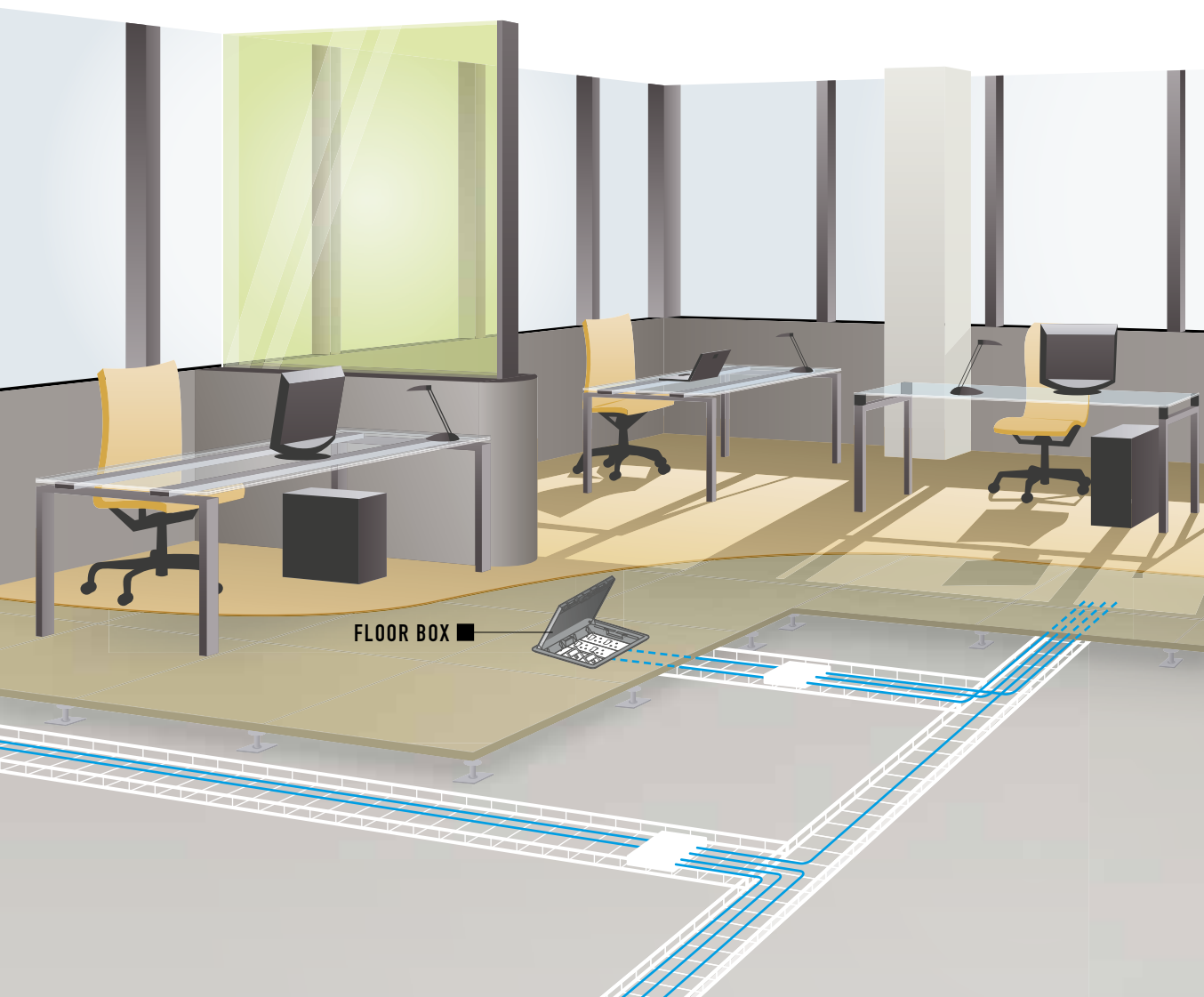


> DISTRIBUTION p. 22

> CONNECTION p. 24

Raised access floor system

A flexible solution for power and data distribution through raised access floor. Cablofil wire mesh cable tray is compatible with traditional raised access floor systems that are widely used. Soluflex flooring system is an even more flexible solution, ideal for quick installation and very easy reconfiguration.



■ SOLUFLEX CABLE FLOOR SYSTEM

Raised access floor with innovative tool-free and accessory-free mounting principle. Metal tiles to be installed on polypropylene supports. Robust system that is safe and easy to install and can be re-configured at any given moment.



■ CABLOFIL WIRE MESH

Thanks to Cablofil, cables are constantly accessible and visible for very easy maintenance. Cablofil's special wire structure allows easy cable insertion (for both inlet and outlet) at any point along the route. Thanks to the safety edge, cables do not get damaged.



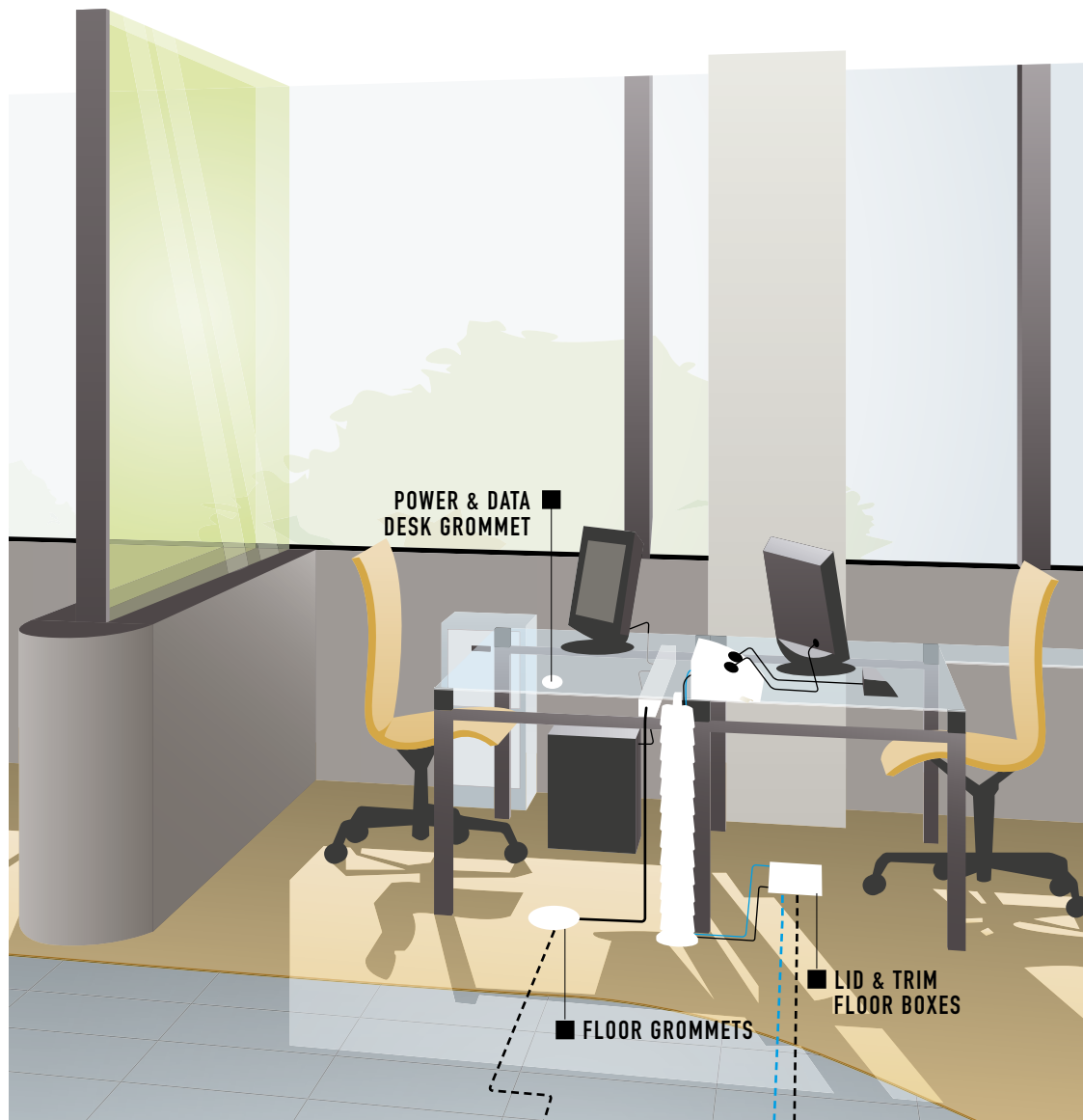
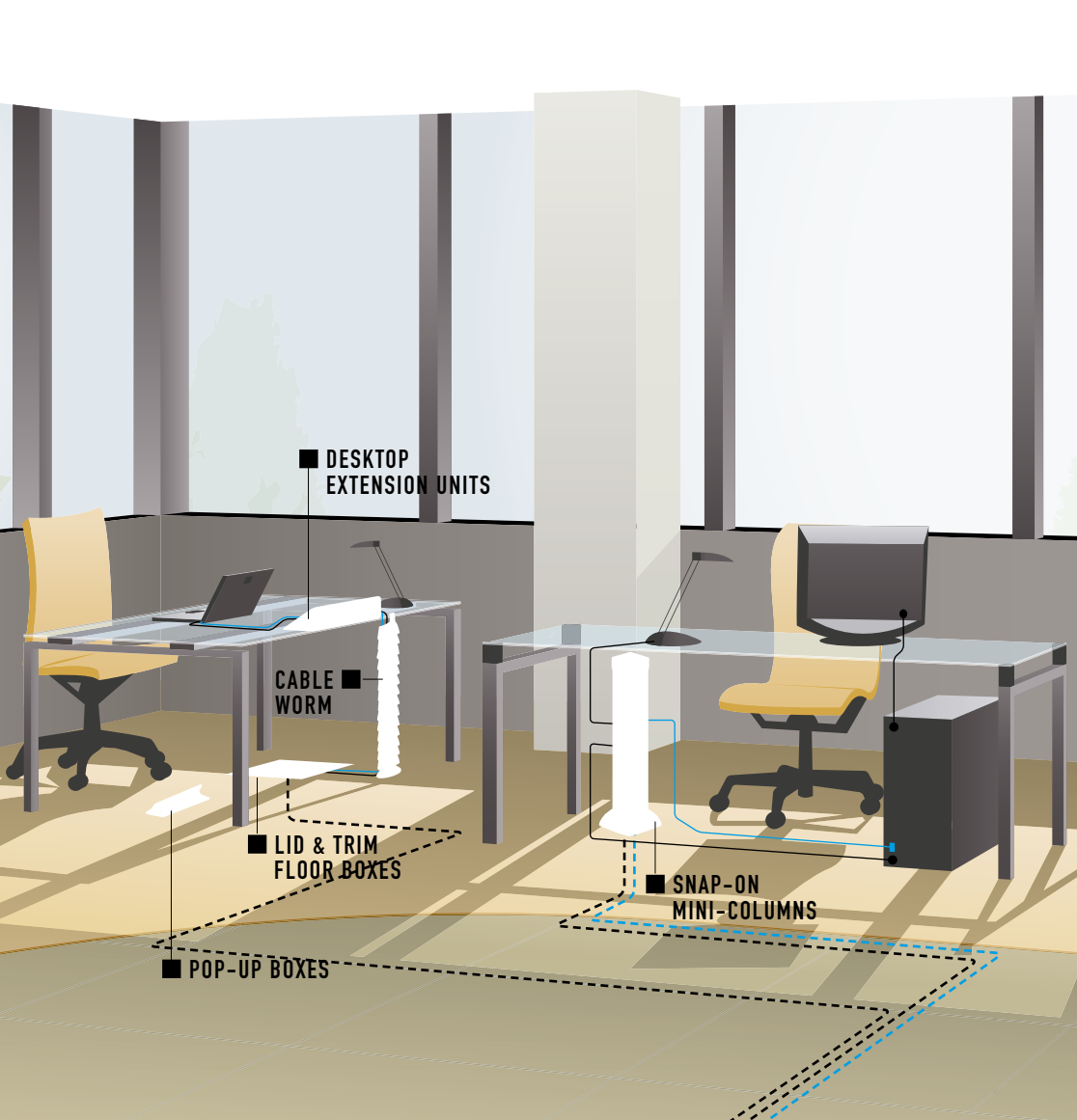
■ BACKBOX FOR RAISED FLOOR

- To be fitted with Lid & Trim
- 3 compartments (264 x 264) mm
- Height 86 mm
- Backbox to be connected to trunking with flexible conduits



Raised access floor system

Simple and effective connection solutions which integrate perfectly with the raised access floor. The floor boxes, snap-on mini-columns and office modules are particularly suitable for permanent use (e.g. a tower PC). The desktop extension unit connected to a floor box is ideal for temporary use (e.g. a laptop).



■ LID & TRIM FOR FLOOR BOXES

Common lid & trim with flexible cable exit for screed & raised floor back boxes. To be equipped with power and data sockets to supply workstations as required. To be fitted on full backbox



■ CABLE WORM

A neat and attractive solution for managing cables from floor to desk.



■ DESKTOP EXTENSION UNITS

To bring power and data onto the desk or meeting room table.

3 versions:

- 8/12/16 module
- empty, to be equipped with Arteor mechanisms according to user requirements.



■ SNAP-ON MINI-COLUMNS

Discreet and handy connection point underneath the desk. Four compartments to be fitted with Arteor power and data sockets.



■ POP-UP BOXES

Ideal solution for occasional visitors in reception areas, meeting rooms, etc. Can be installed in screed or raised floor or mounted directly in the desk.

Compatible with Arteor™ & Myrius™

Available in 5 finishes and 3/4/6 & 8 modules



■ FLOOR GROMMETS

For inserting cables and flexible conduits from the raised access floor to workspaces.



■ POWER & DATA DESK GROMMET

Suitable for integration of power, mobile charger & data connections into desks.

Easily retro fitted into 60 to 80 mm diameter hole in current office desks and workspace table tops (by replacing the conventional desk grommets)

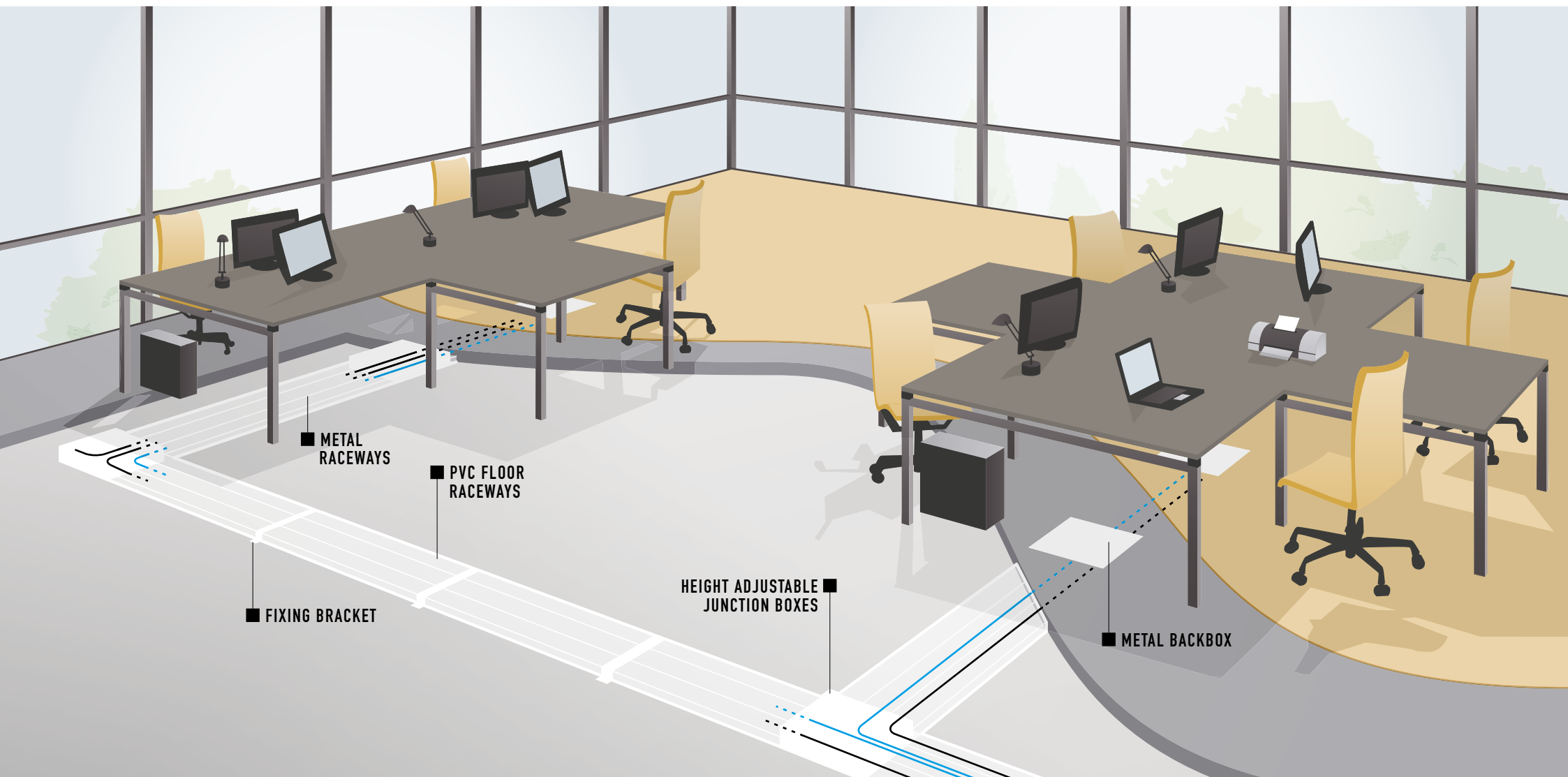
Compatible with Arteor™ & Myrius™



DISTRIBUTION

Screed floor system

A quick and easy way to distribute power and data for screed floor with plastic and metal raceways. This system is particularly robust and designed to support superior loads. Height adjustable junction boxes allow easy access when installing cables or for extensions.



■ RACEWAYS - PVC & METAL (GI)

- IP20 - IK08
- For distributing LV and ELV cabling in screed floor installations
- Both the raceways combine with junction boxes, back boxes
- Option of accessories like couplers, fixing brackets & vertical risers
- Optimised profile to increase cabling capacity

Metal floor raceway

A robust solution suited for concrete floors (screed height: 65 to 90 mm).

Electromagnetic separation between high and low currents. Available in 1 and 3 compartments.



PVC floor raceway

Light and resistant (IK 08), easy to handle and to cut, saving time on site.

Available in 1, 2, and 3 compartments.



■ FIXING / JOINING ACCESSORIES / VERTICAL RISER

For fixing trunking to the floor and joining trunking sections together for PVC & metal raceways.



■ METAL BACKBOXES

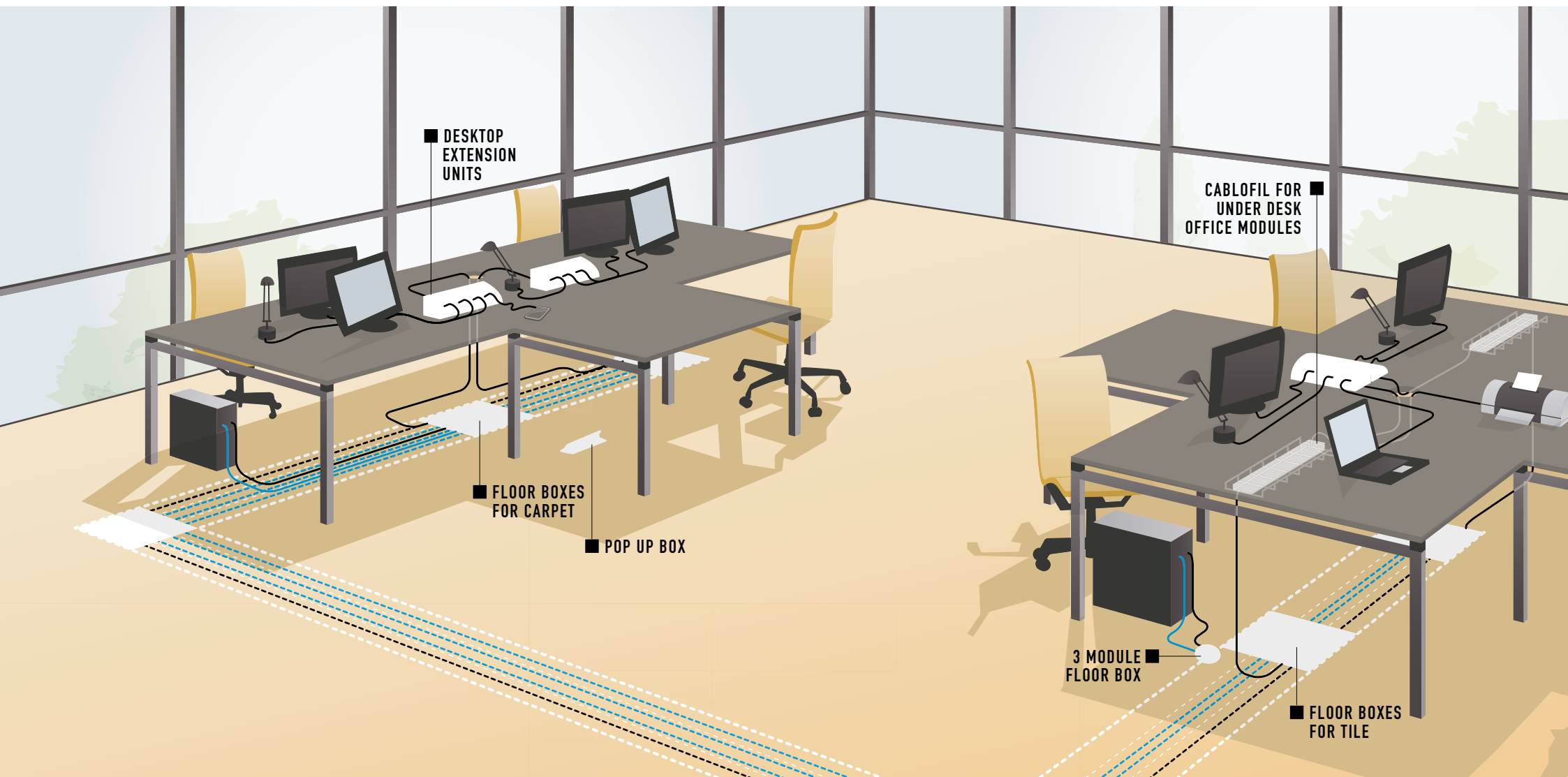
Remain accessible once the screed is poured for adding new cables and for changing the installation. For cable junction and/or installing floor boxes. To be installed at the raceway intersection.



CONNECTION

Screed floor system

Direct integration for easy connection of data and power from the concrete floor with floor boxes. Connected to the floor boxes, the desktop extension units and office modules provide additional convenience for users requiring frequent access to sockets (e.g. a laptop).



■ DESKTOP EXTENSION UNITS

Source of power and data to the desktop for optimal user convenience.

Option of fitting the empty desktop extension units with Arteor for extended functionality: audio/video sockets, HDMI etc. Neat, attractive appearance and ergonomics suited for different office environment: open space, meeting rooms, individual offices.



■ 3 MODULE FLOOR BOX

- 3 module grey RAL - 7031 floor box
- Floor box made of plastic PC/ABS RAL - 7031
- Covers for independent exit for data & power cables
- Compatible with Arteor



■ LID & TRIM FOR FLOOR BOXES - FOR CARPET TILE

Totally discreet installation under the desk to supply workstations with power and data.

The boxes can be fitted with Arteor or Myrius wiring devices.

To be used with backbox & height adjustable from 65 to 90 mm.

Common lid & trim with flexible cable exit for screed & raised floor back boxes. To be fitted on full backbox



■ LID & TRIM FOR FLOOR BOX - FOR TILE/MARBLE

3 options

- All GI with grey painted head band/cable exit for tile Size of 8 - 15 mm thickness
- All GI with SS304 head band/cable exit for tile size of 8 - 15mm thickness
- All SS304 with 2 cable exit for tile size of 15 - 22 mm.

To be used with backbox and height can be adjusted from 65 to 90 mm



■ COMMON ACCESSORIES - FOR LID & TRIM FOR FLOOR BOX



■ POP-UP BOXES

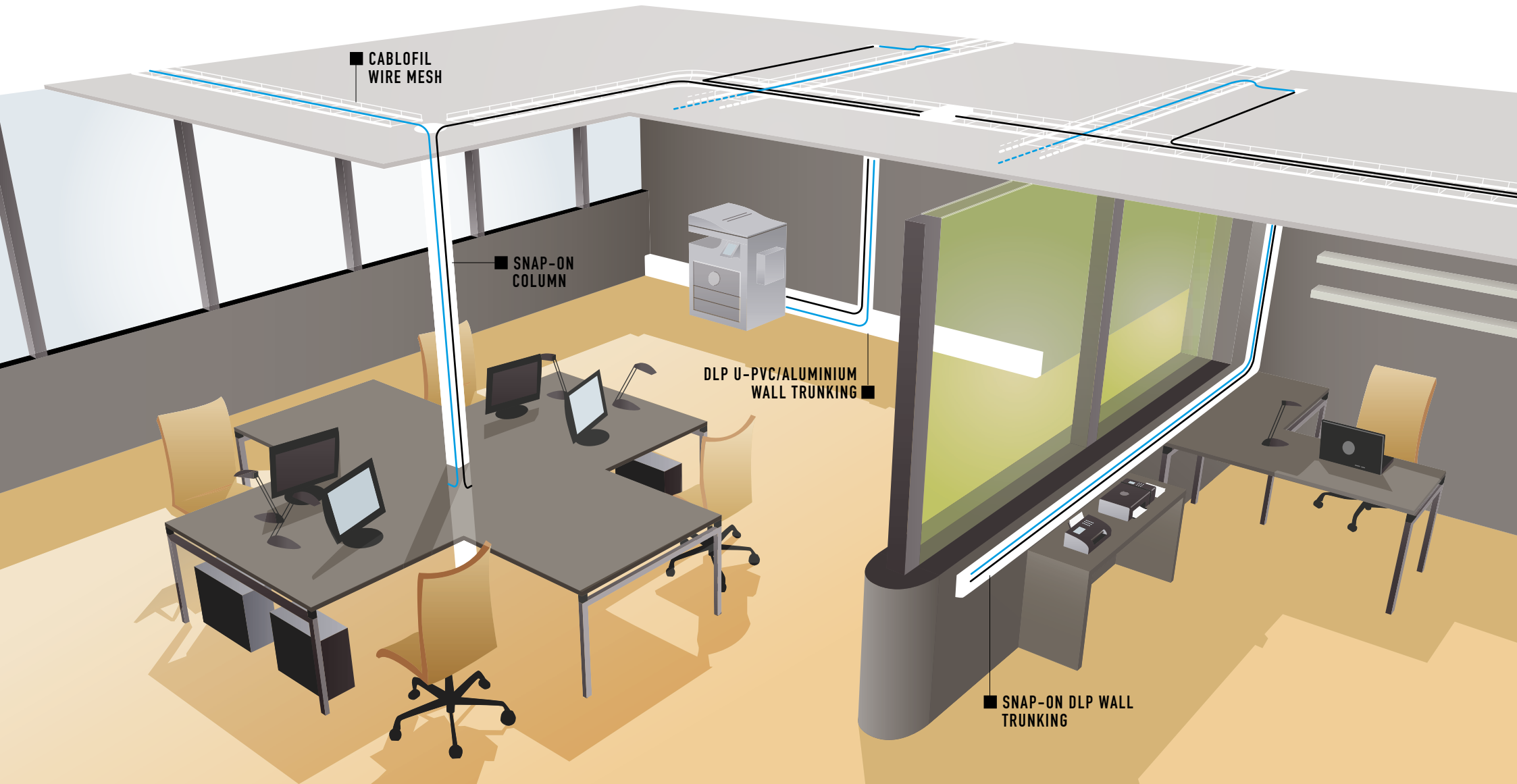
Ideal solution for occasional visitors in reception areas, meeting rooms, etc.

Can be installed in screed or raised floor or mounted directly in the desk.



Wall and ceiling systems

Quick and easy solution to distribute the data and power through the false ceiling or alongside the walls. Both solutions offer perfect finish and match the decor with smart range of finishing accessories. To be equipped with Arteor mechanisms.



■ DLP WALL TRUNKING SYSTEM

Snap-on trunking system

Available in 5 sizes for routing cables and installing wiring accessories in work areas. Supports any function from the Arteor range by simply clipping directly onto the trunking. Sockets have to be equipped with Soluclip for extra strength.



U-PVC & mini trunking system

Installed with a flexible cover allowing quick installation and access to the compartments for changing configuration according to requirements. Fully compliant with standard EN 50085-2-1 and the RoHS Directive. Supplied complete with cover and dividers.



Aluminium trunking system

Aluminium finish for areas requiring a particularly neat and attractive appearance and design. Strong and resistant material ensuring the installation's longer service life. Available in 1 or 2 compartments, both of which can be equipped with wiring accessories.



■ SNAP-ON COLUMNS

To distribute power and data through the false ceiling for supplying 1 to 4 workstations. Ceiling column aluminium body is divided into 1 or 2 compartments to provide optimal separation between power and data.



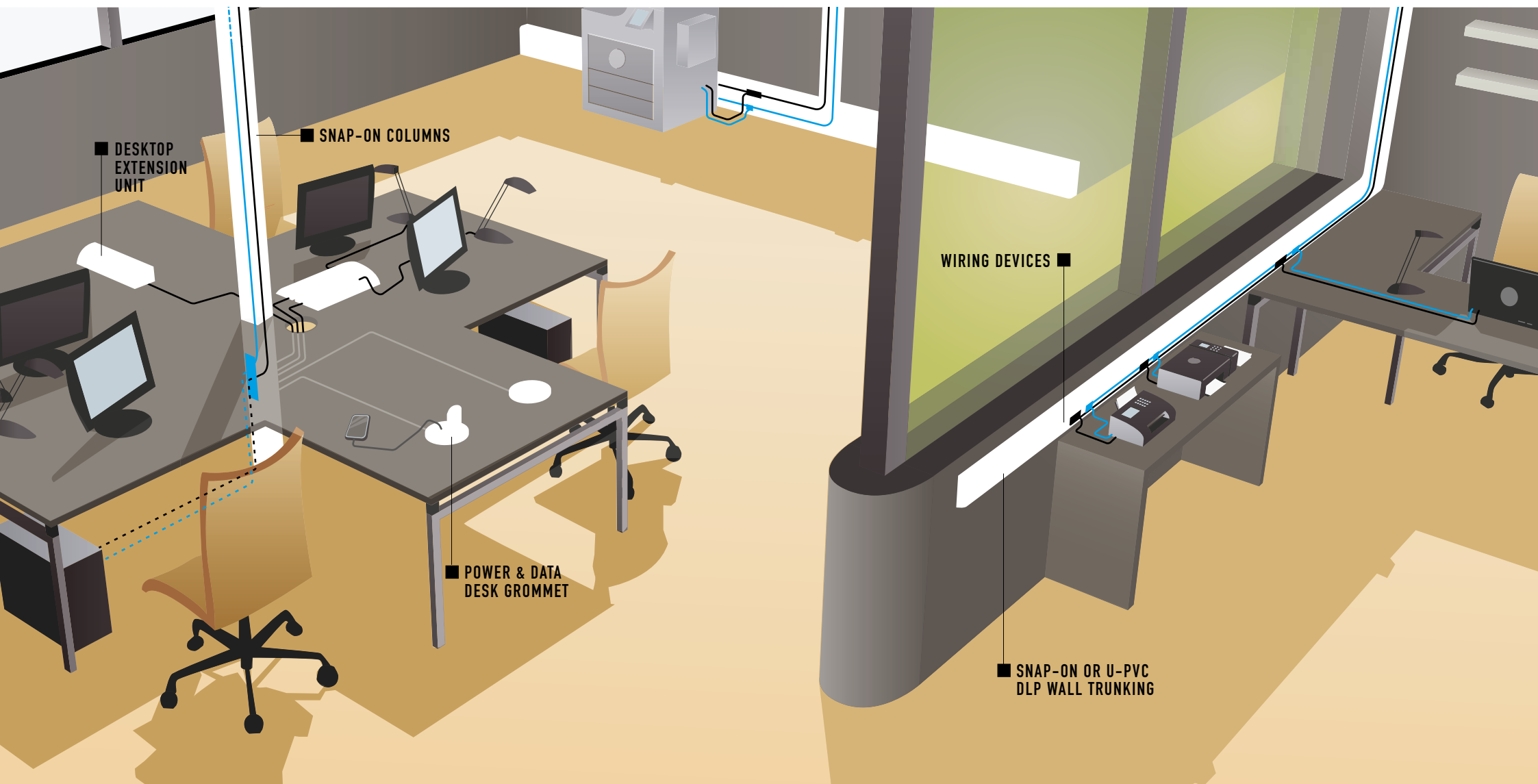
■ CABLOFIL WIRE MESH CABLE TRAYS

Thanks to Cablofil, cables are constantly accessible and visible for very easy maintenance. Cablofil's structure allows easy cable insertion (for both inlet and outlet) at any point along the route.



Wall and ceiling systems

The snap-on columns and DLP U-PVC/aluminium/snap-on trunking are modern and flexible solutions for supplying the workstation with power and data connection. Both systems can be used to route power and data from ceiling to workstations and give users very easy access to the wiring accessories. The ceiling column is a recommended solution for open space offices and the DLP wall trunking is the best choice for perimeter distribution.



■ DLP TRUNKING SYSTEM - SNAP-ON, U-PVC AND ALUMINIUM

Direct clipping of Arteor mechanisms or via wiring accessory supports (from 2 to 8 modules) according to each trunking version.

Compatible with any Arteor mechanism: 2P+E sockets, RCBO, RJ 45 sockets, Wi-Fi access points, Ethernet switch, audio and video sockets (RCA, USB, HDMI, BNC, etc.)

Functions available in white or aluminium finish for integration in total harmony with the trunking finish (white or aluminium).



■ ARTEOR WIRING DEVICES

Full of operating features in white or aluminium finish, to fit-out all installation support devices: floor boxes, snap-on columns, snap-on mini-columns, DLP, desktop extension units...



■ DESKTOP EXTENSION UNITS

Power and data distribution directly to the desktop for optimal user convenience.

Empty desktop extension units can be fitted with any Arteor functions: audio/video sockets, HDMI...

Attractive design and ergonomics suited for different office environment: open space, meeting rooms, individual workspaces...



■ SNAP-ON COLUMNS

To be fitted Arteor range of wiring devices with the help of normaclip.

2 installation options for power

and data sockets:

- Above the desk for direct access and to make mobile device use easier
- Under the desk for discreet connection of computer equipment, peripherals and other fixed office equipment for desk-bound users.

Also available in snap-on version.



■ POWER & DATA DESK GROMMET

Suitable for integration of power, mobile charger & data connections into desks.

Easily retro fitted into 60 to 80 mm diameter hole in convent office desks and workspace table tops (by replacing the conventorial desk grommets).

Compatible with Arteor & Myrius range of wiring devices.



Full of functions for installing in all supports

ARTEOR™ STANDARD FUNCTIONS
Power and data sockets



Multistandard socket



RJ 11



RJ 45



6A multistandard socket

ARTEOR™ PROTECTION FUNCTIONS



RCBO



Thermal magnetic proximity MCB

ARTEOR™ AUDIO AND VIDEO SOCKETS



2 x female RCA



3.5 mm Jack



Female HD 15



Female HD15 + jack

ARTEOR™ ADVANCED FUNCTIONS
For mobile use
e.g. in meeting rooms and reception areas...



Ethernet Switch



Wi-Fi access point

MYRIUS™ STANDARD FUNCTIONS /
AUDIO AND VIDEO SOCKETS*



6A socket



RJ 11



RJ 45



2 x female RCA



Female HD15 + jack

*Compatible with floor box for screed & raised floor & with pop up box and DHM.

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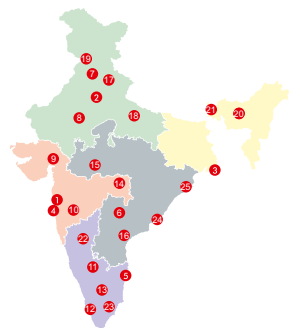
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Head office

1. 61 & 62, 6th Floor,
Kalpataru Square, Kondivita Road,
Off Andheri-Kurla Road, Andheri (E),
MUMBAI - 400 059.
Tel : (022) 3041 6200
Fax : (022) 3041 6201
Website : www.legrand.co.in

Regional sales offices

2. A-25, Mohan Co-operative
Industrial Estate, Mathura Road,
NEW DELHI - 110 044.
Tel : (011) 2699 0028 / 29 / 30, 3990 2200
Fax : (011) 2699 0047
3. Bhakta Towers, 2nd & 3rd Floor,
Plot No. KB 22, Salt Lake, Sector - 3,
KOLKATA - 700 098.
Tel : (033) 4021 3535 / 36
Fax : (033) 4021 3537

Technical assistance from Legrand

Telephonic technical assistance for selection of products, technical information, guidance, wiring diagrams and estimation is now made available to you at each Regional Office. Contact the Technical Officer of Legrand at the following telephone numbers

New Delhi : Tel.: (011) 2699 0028, 3990 2200

Kolkata : Tel.: (033) 4021 3535 / 36

Mumbai : Tel.: (022) 3385 6200

Chennai : Tel.: (044) 3024 7200, 2836 4165 / 67 / 68

Hyderabad : Tel.: (040) 2341 4398 / 67

For other places, contact the nearest Regional / Branch / Area offices
customer.care@legrand.co.in

4. 34, 3rd Floor, Kalpataru Square, Kondivita Road,
Off Andheri-Kurla Road, Andheri (East),
MUMBAI - 400 059.
Tel : (022) 3385 6200
Fax : (022) 3385 6201
5. Gee Gee Universal, 8th Floor, Door No. 2,
18/1 & 18/2, McNichols Road, Chetput,
CHENNAI - 600 031.
Tel : (044) 3024 7200, 2836 4165 / 67 / 68
Fax: (044) 2836 4169
6. 205-208, 2nd Floor, Block - II,
White House, Kundan Bagh, Begumpet,
HYDERABAD - 500 016.
Tel : (040) 2341 4398 / 67
Fax : (040) 6636 6974

Branch offices

7. SCO 1-2-3, Second Floor, Sector 17B,
CHANDIGARH - 160 017.
Tel : (0172) 305 8631 / 32 / 33 / 34 / 35
Fax : (0172) 501 9008
8. 507-510, Vth Floor, Soni Paris Point,
Jai Singh Highway, Banipark,
JAIPUR - 302 016.
Telefax : (0141) 511 3129
9. 504, Sakar IV, Opp. M. J. Library, Ellis Bridge,
AHMEDABAD - 380 006. Gujarat
Tel : (079) 2658 6561 / 2
Fax : (079) 2658 6563
10. 402, Swastik Chambers,
Near Ashwamegh Marriage Hall,
Behind HP Petrol Pump,
Off Karve Road, Erandwane,
PUNE - 411 004.
Tel : (020) 6729 5600 / 601
Fax : (020) 6729 5604

11. 11nd Floor, Al-Latheef Building,
2/1, Union Street, Off. Infantry Road,
BANGALORE - 560 001.
Tel : (080) 2286 1081, 4113 3293 / 4
Fax : (080) 2286 1078

12. No. 36/2178, Syda Building, 2nd Floor,
Kaloor - Kadavanthra Road, Kaloor,
KOCHI - 682 017.
Tel : (0484) 234 2921, 658 0921
Fax : (0484) 233 3921

13. B-15, Thirumalai Towers,
IV-D, Fourth Floor, 723, Avanashi Road,
COIMBATORE - 641 018.
Tel : (0422) 650 2728, 222 3634 / 0283
Fax : (0422) 222 3164

14. Plot No.95, II Floor, Shreyash Heights,
Ramdas Peth, VIP Road,
NAGPUR - 440 010.
Tel : (0712) 662 7857 / 58
Fax : (0712) 662 7859

15. 204-205, Megapolis Square, 579, M G Road,
INDORE - 452 001.
Tel : (0731) 393 1650 / 51 / 52
Fax : (0731) 393 1653

16. MF-2, Datta's Lords House, Jammi Chettu Street,
VIJAYAWADA - 520 010.
Telefax : (0866) 669 9393

Area offices

17. ABC Business Club 16,
Tagore Villa, Chakrata Road,
DEHRADUN - 248 001. Uttaranchal.
Tel : (0135) 271 5189 / 248 001

18. Cabin No.104/105, Trade Point, Ground Floor,
Saran Chamber 1, 5, Park Road, Hazratganj,
LUCKNOW - 226 001.
Tel : (0522) 223 9044 / 7285
Fax : (0522) 223 9124

19. Cabin No. 9, Second Floor,
Madhok Trade Centre,
Madhok Complex, Ferozpur Road,
LUDHIANA - 141 001.
Tel/Fax No.: (0161) 277 0301 / 304

20. House No. 97, Ground Floor, Rajgarh Main Road,
Opp. City Heart Nursing Home,
GUWAHATI - 781 007.
Tel : (0361) 245 8498

21. 94, Udhm Singh Sarani,
Ground Floor, Ashrampara,
SILIGURI - 734 001.
Tel : 94341 91635 / 98009 77780

22. Prime Plaza, 2nd Floor, 1st Main,
Girls High School Road,
Near PNB, Deshpande Nagar,
HUBLI - 580 029.
Mobile Nos: 98807 64338 / 98807 64339

23. Aparna Towers, 1st Floor, 2/3, Bypass Road,
MADURAI - 625 010.
Telefax : (0452) 230 8414

24. 404, Eshwar Plaza, Dwaraka Nagar, Main Road,
VISHAKHAPATNAM - 530 020.
Telefax : (0891) 663 9363

25. Plot No. 359, Saheed Nagar, 2nd Floor,
BHUBANESWAR - 751 007.
Tel : (0674) 254 0623



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