

Energy and data flow from a standing position

ISS service pole systems

The attractive interface of electrical technology and interior architecture

LFS cable routing systems



ACKERMANN
CABLE MANAGEMENT

OBO
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OBO. Used by professionals.

OBO understands what professionals need: perfect solutions for all aspects of an electrical installation. User-friendly, practical products for fast, uncomplicated installation. Add to this a comprehensive training programme and the OBO expert hotline for on-the-spot assistance at the construction site. OBO, the brand with the hot wire to the customer.

Systems



Conducting electricity, routing data, controlling energy – with a complete product range of over 30,000 articles, OBO can offer user-friendly products and practical solutions for a professional data and electrical infrastructure in electrical installations. And as anyone working with OBO quality products knows, one goes hand in glove with the other. On the one hand, we can provide a wide range of products; on the other hand, we can offer networked thinking – something absolutely natural to us as a systems manufacturer.

- ▶ Seamless and complete programme for all aspects of electrical installation
- ▶ Over 30,000 items in seven product units
- ▶ Ongoing product maintenance and further development
- ▶ Proprietary development and production facilities

Quality



Professionals demand quality. A quality offered by all OBO brand products and services:

- ▶ QA certification to DIN EN ISO 9001:2000
- ▶ Tested material and manufacturing quality
- ▶ Numerous national and international test seals and certificates: GS and VDE marks, UL approvals
- ▶ Active involvement in national and international standardisation bodies
- ▶ Perfect logistical solutions for packing and shipping applications
- ▶ All the products in this catalogue are CE-compliant. This also applies to standard parts such as screws and nuts, which are components of the respective product system.

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High quality, visually attractive and suitable for any conceivable application: these are the ISS service pole systems from Ackermann Cable Management, which we would like to present to you in this brochure. Excellent functionality and contemporary design go hand in hand in this product range. This ISS brochure not only gives you an overview of all the available products, in addition, a range of information will help you in selecting and planning the correct service pole. You can find all the ordering details in the separate ISS ordering document. You can always expect OBO to be one step ahead!

Your OBO LFS Team

Local

Support & advice



OBO Bettermann has subsidiaries, regional branches and agencies in over 50 countries. All these offices are there to ensure that OBO can always provide the fastest, best, most local help to its customers.

At OBO, you can be sure of receiving help from expert employees: for individual solutions and application tips and with practical seminars in the OBO training centres and branch offices.

● = Branch ● = Agency

- | | |
|------------------|------------------------|
| ● Argentina | ● Lebanon |
| ● Australia | ● Lithuania |
| ● Austria | ● Malaysia |
| ● Belgium | ● Malta |
| ● Brasil | ● Netherlands |
| ● Bulgaria | ● New Zealand |
| ● China | ● Norway |
| ● Croatia | ● Poland |
| ● Czech Republik | ● Portugal |
| ● Denmark | ● Romania |
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Clear designs, clear concepts

Modern architecture requires new concepts



Architecture creates living space, creates an atmosphere and is a communicator. Unusual designs, functionality and flexibility are the cornerstones of modern architecture. The use of state-of-the-art materials and the use of innovative technology are as much standard procedure as an economical design. However, one thing is always essential: people should feel comfortable in the buildings and rooms in which they live and work. Building technol-

ogy has an ever greater role to play: the power and data infrastructure forms the basis for the required level of comfort, economical viability and functionality. New solutions are required to meet the requirements of modern architecture. The ISS service pole systems have their role to play here.

Design in every detail

OBO ISS installation column systems

Modern architectural concepts make challenging demands on electrical installations. All the components – data, power, communication, light – must be integrated in an overall solution. The aesthetic component should also not be forgotten, particularly in the last few metres to the workstation. Design requirements can be met here, too. The OBO products are designed and produced for modern architecture concepts. The ISS service pole systems provide a highly functional and aesthetically attractive way of supplying workstations with power and data in modern office landscapes. ISS service pole systems fulfil all the technical and architectural requirements of modern cable routing – and make an active contribution to the interior architecture.



Organised flexibility

The basis for modern work



Modern working environments deal with communication, teamwork and speed. Ever more electronic devices have their part to play. Today, technology which always works perfectly is the essential basis. In a time of constant change, the electrical installation must offer the maximum of flexibility. It must be possible to set up temporary workstations quickly, and, when room designs are changed, it must be possible to change the technology

easily. The solution: the ISS service pole systems from OBO. They allow free positioning of supply points close to the workstation – even if there is no wall nearby. The location can be changed at any time. OBO ISS supplies a level of flexibility to any location where power and data must be available – in administrative buildings and in commercial buildings.

As ordered. Always the right solution

Each building is different. And therefore individual solutions are required during electrical installations. OBO ISS makes this possible. Whether it be for the installation space, height, design and colour or pre-termination, there is a wealth of practical variants available for each area, so that you can easily fulfil the requirements of your customers. This means a suitable service pole solution can be found for any room. Three different pole types make it possible to feed in cables either from the floor or from the ceiling. Modul 45 devices can be installed just like conventional switch series. Whether in anodised aluminium, pure white or any other colour, in any office environment, ISS service poles can provide flexibility, safety, order – and a modern appearance.



Good examples

Like this or that



Floor/ceiling service pole

The oval design of the service pole, type ISS 120, catches the eye. The flush integration of the devices provides particular elegance. The cover frames reflect the shape of the pole. This creates a closed, smooth and harmonious surface.



Floor/ceiling service pole with lamp

The service pole ISS T70140B has a fastening for mounting a lamp. This allows individual, modern and attractive integration of the poles into the existing lighting concept.



Floor/ceiling service pole

This pole type can be equipped both conventionally with the devices of the OBO Standard, Dialog and Aura ranges, and also with the quick-to-install OBO Modul 45 system.



Floor service pole, Modul 45

With a diameter of just 70 mm, the aluminium profile of the ISS Modul 45 is irresistible. On the front side, there is an opening for direct installation of the switching and connection devices of the Modul 45 range. An aluminium cover provides complete cover, which is what permits its

extremely slender design. As it can be equipped right to the top, the ISS Modul 45 floor service pole can, thanks to the compact device dimensions, provide sufficient installation space for almost any application. With a length of 700 mm, it can be integrated into the overall design, in a timeless and inconspicuous way.



Modul 45 floor/ceiling service pole

With the floor/ceiling service pole, the slender aluminium profile of the ISS Modul 45 is particularly attractive and elegant. This high-quality service pole can be combined with any office equipment and is superbly suited to modern architecture.



Service pole centre

The ISS service pole centre allows equipment with switches, sockets and data connections from all four sides – anywhere in which there are multiple workstations or conference seats in a small area.

Mobile floor/ceiling service pole

When the locations of workstations change regularly, mobile floor/ceiling service poles ensure the necessary freedom of movement. The term “free-standing installation unit”, which comes from the standard, is exactly right here. The pole is supplied from above via a flexible hose, meaning that it can be placed anywhere within a specified radius.



Not just a help in the office

Additional areas of application



Laboratory

Laboratory areas have increased technical requirements. These can be mastered with ease using the ISS 140220, as the dimensions of this service pole allow a maximum of variations of different circuits and voltages. As they are equipped from two sides, the required flexibility is available for practically any application.



Cash desk

The service pole ISS 70110 is also suitable for cash desks, as it can be equipped right up to the top. A one-sided installation compartment is fully sufficient for this. The slim design fits into the overall appearance and does not restrict the view of the personnel at the cash desk.





Schoolrooms

The perfect service pole to supply teaching workstations in schools is the ISS 140110. With its robust design, it can fulfil the equipping requirements from two sides, e.g. to supply consumers outside the lectern. On the other hand, its body does not dominate the overall appearance of the classroom.



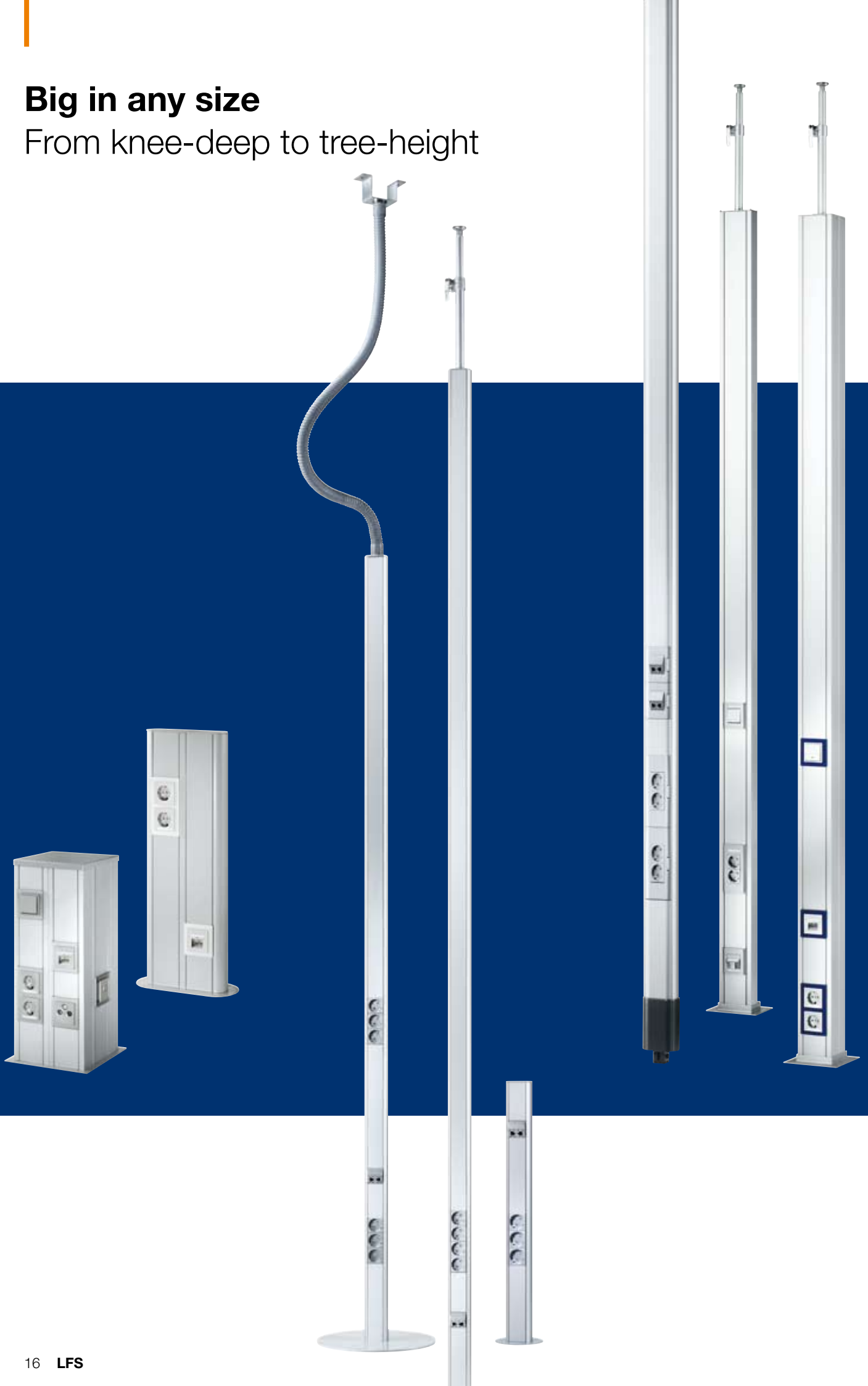
Commerce

The larger installation space is the strength of the ISS 90110. Particularly in commercial applications, e.g. in a sewing room, there are increased requirements for the range of circuits, or heavy current connections are required. The depth of the ISS 90110 pays dividends here. A stable profile makes it possible to house all the required cables.



Big in any size

From knee-deep to tree-height



Three types of column, one system

There are three different types of pole available for the different applications.

1. The floor/ceiling service poles are tensioned between the floor and ceiling using a tensioning device. Data and power are supplied through the underfloor system or the false ceiling. **2.** The mobile floor/ceiling service poles are particularly flexible. There is a hose at the top end of the pole, through which it is supplied with data and power. It can be located freely within a specified radius. **3.** Floor service poles can be mounted on floors near desks – even under tables. They are supplied by an underfloor system.



Go with the flow

Perfect data and power feed

Service poles are central interfaces in a flexible, intelligent building installation. Particularly in buildings with installation levels in the floor or under the ceiling, they can offer a range of options for optimising technical solutions. In the standard application, the ISS service poles can be equipped individually according to requirements. If the installation requirements are pre-specified in your project, then pre-terminated service poles can be sup-

plied on request. There is growing demand for such ready-for-connection, easy-to-install products. They save valuable time during installation, increase installation security and allow the user to make smaller expansions and modifications during operation.

Provision through the underfloor system

Floor service poles are supplied with data and power through the floor. In an ideal case, there is a cavity or raised floor available to supply the system. In conjunction with OBO underfloor systems, both standard and pre-terminated solutions can be fitted.

Provision through the consolidation point

All the service poles can also obtain data and power via a consolidation point in suspended false ceilings or in cavity and raised floors. All the necessary power, data and communication connections can be connected to consolidation points according to the plug & play method. Different circuits and different data technology and communication technology systems can easily be told apart. This reduces the fixed cable in the building, providing the highest level of flexibility.

Provision through the energy distribution systems

Floor/ceiling service poles and floor service poles can also be supplied with power through power distribution systems in cavity or raised floors. Such power distributors are used primarily when a flexible mains power supply is required. A key benefit is that pre-wired service poles can be connected directly to the power distributor using standard connectors (Wieland GEST18i). Coding of the appropriate connector systems prevents mistakes with regard to different circuits.

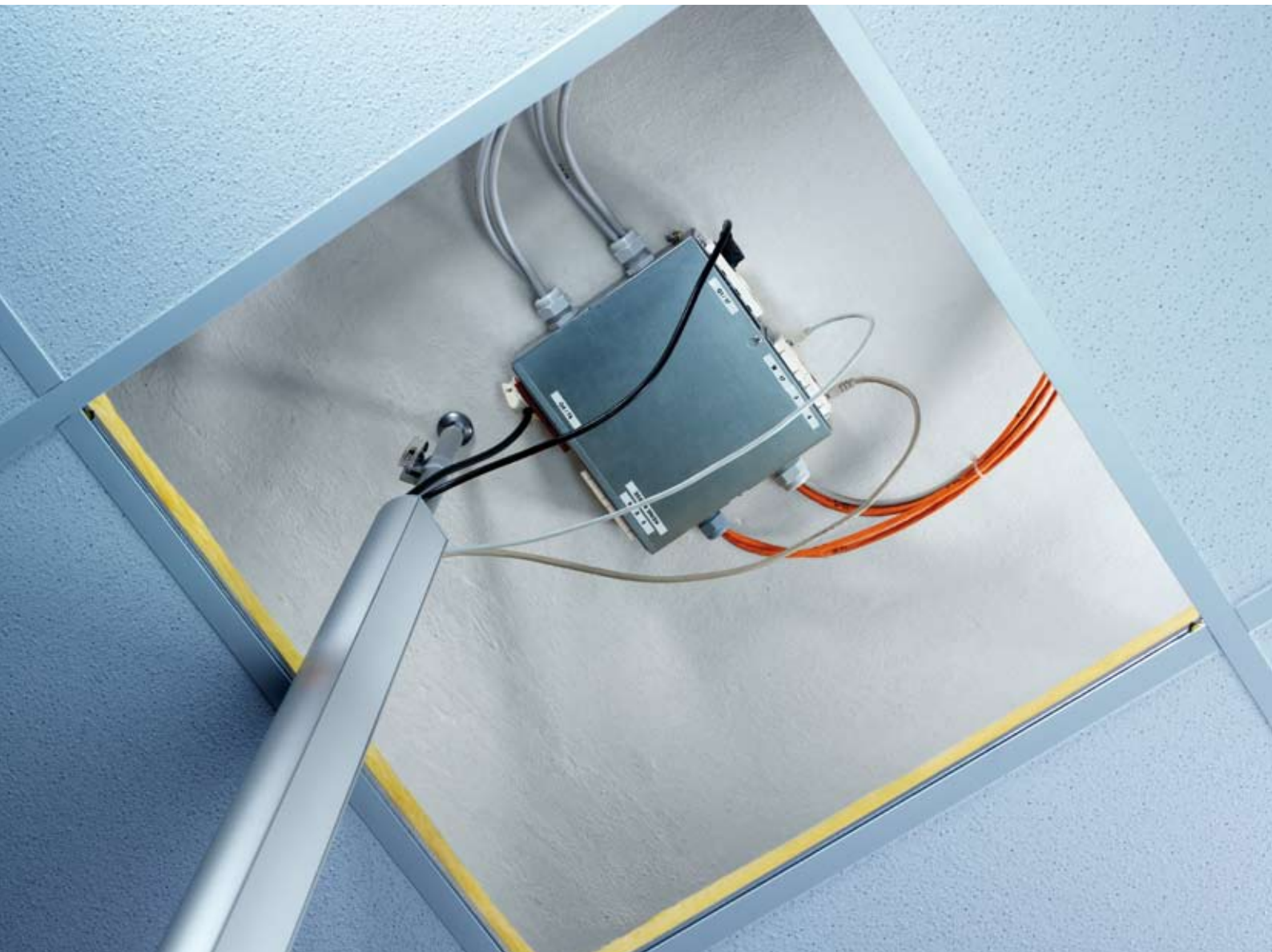
Solutions for new and existing buildings

Over recent decades, the procedures for building offices and commercial buildings have changed. Different regions may also have different designs. However, one thing is the same everywhere: ever more cables are required, preferably unseen, and the entire data technology system must be as flexible as possible. The solution is the integration of installation levels in the building, simplifying changes in cabling. In older buildings, these installation levels often take the form of a suspended false ceiling. In newer buildings, cavity or raised floors are becoming ever more common. The ISS service pole system is designed for both new and existing buildings and can meet any requirements with its range of dimensions and designs.



The pre-wired one

Just erect, connect, and you're done



The pre-wired service poles

Pre-wired service poles are equipped completely according to your specifications and delivered complete with a testing report. The decisive advantage is that the ISS service pole must simply be erected and connected,

for example, at the consolidation point. In addition, it can be retrofitted individually with sockets or with data technology. This minimises the installation work on site. Should there be changes in the room, the pre-wired ISS service poles can simply be relocated and reconnected.



Delivered as ordered

To ensure you receive a correctly pre-terminated service pole, we have developed a special ordering form. If you should have any more questions, our local representatives will be glad to supply you with help and advice.

All-rounders

The suitable device installation ranges



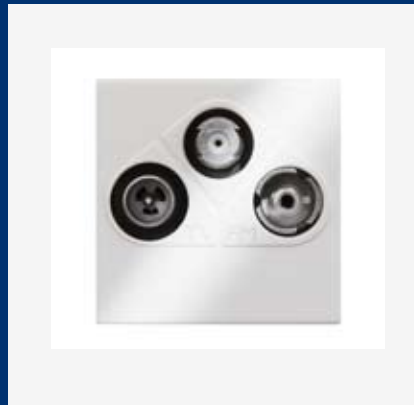
It clicks: the Modul 45 range

Modul 45 is designed for rapid installation. The special feature is that switches, plugs and data technology can be simply clicked in.



Well equipped: the matching switch ranges

ISS service poles can be equipped in two ways, either conventionally with the switching devices of the Standard, Dialog and Aura ranges, and also with the quick-to-install Modul 45 system. With 80 mm track poles, these are attached using adapters.



Simply more flexible

The Modul 45 programme means that everything is well served – switches, sockets, data technology, motion detectors, telephone sockets, antenna sockets, overvoltage protection, etc.

All-inclusive

You can integrate highly sensitive PC, electronic and communication devices simply into the normal switch installation.

Attractive: the Aura range

The aura of this range has a special effect on customers looking for elegant designs. Lots of colours and clear designs – this is how high-quality installations look today.



What we also wanted to mention...

Technical features, colours, accessories



Ceiling fastening

Floor/ceiling service poles are tensioned during mounting, i.e. the tensioning between the floor and ceiling provides the highest level of stability, without damaging the floor covering or ceiling. This variant is primarily suited for locations with a fixed plan. However, the location can be changed easily. There are no limits to ceiling height as long as stable tensioning is guaranteed. To make clean pole ceiling penetrations through suspended false ceilings, there is a selection of ceiling penetration panels available.

Floor fastening

Mobile floor/ceiling service poles stand independently on a large base and can be moved freely. The radius for moving the poles is determined by the ceiling height and length of the hose. Floor service poles can be screwed tight to the substrate using the floor plate and thus fixed. Floor/ceiling service poles are tensioned between the floor and ceiling. Should the floor/ceiling service pole be screwed to the floor, then the existing floor panel must be replaced by a floor plate.

Well combined

Versatile shapes, colours and variable height adjustments offer planners and users a system which can be combined with, and integrated into, any architecture. The OBO ISS service pole range, with its comprehensive accessories, can also offer a complete system here, right up to the attractive ceiling rosettes.



Normal or special?

Individual colour schemes

No matter which shape and which colour, the OBO ISS service pole system can offer a solution for any design. The service poles, primarily available in white or aluminium anodised designs, are available in any conceivable RAL shade.



Let there be light!

Integrated lighting

The service pole type ISS T70140B provides the option of integrating lighting. It possesses a facility for fastening the desired lighting. On the service pole shown here, you can see a workstation lamp of make Waldmann Tycoon LYA 455 with a four-flame head.

Perfectly supplied

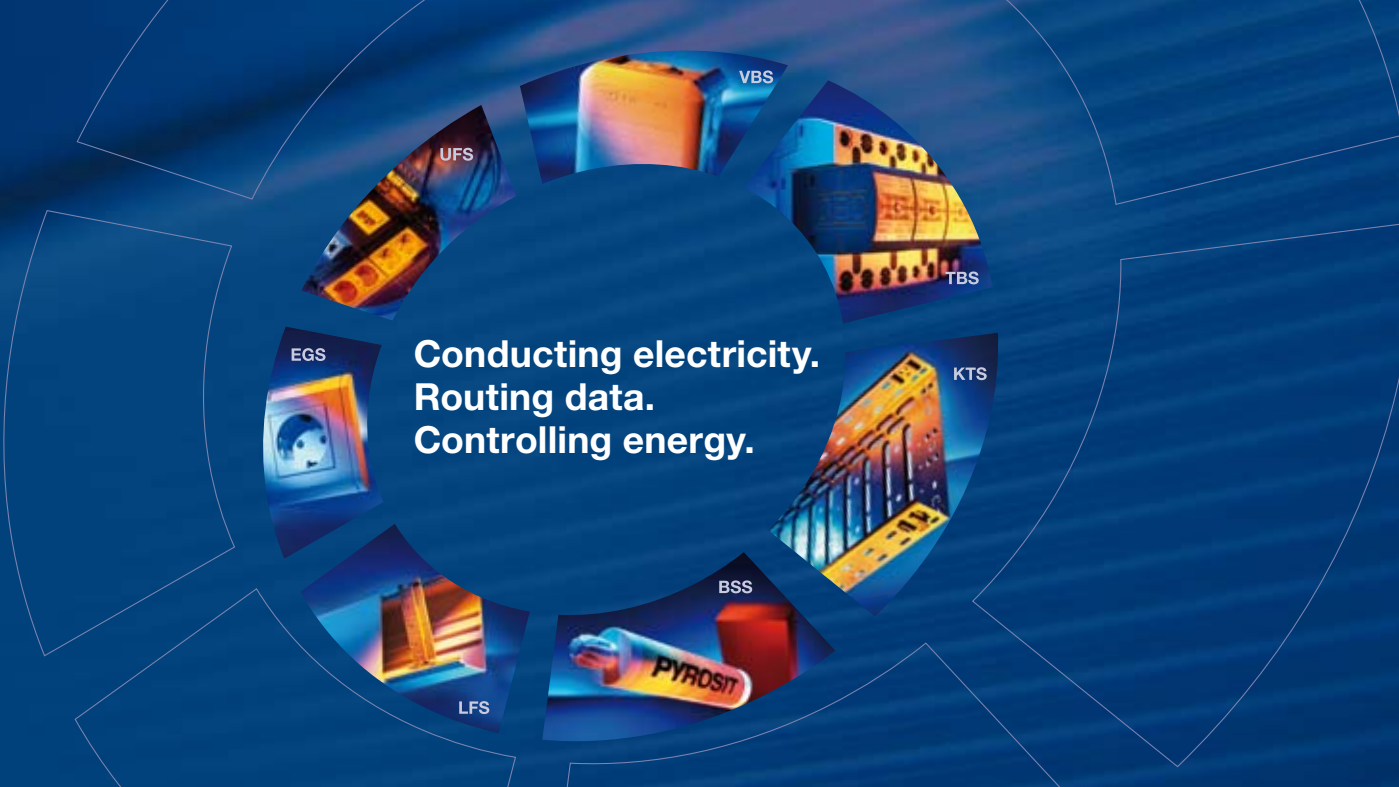
Overview of energy and data distribution



Good choice

The selection of the correct service pole system is dependent on various factors. Whether it be for the installation space, supply, height, design and colour, or for pre-termination, OBO can offer a wealth of practical variants for each area, so that you can fulfil the requirements of any application for your customers. You can find all the ordering details in the separate ISS ordering document.





**Conducting electricity.
Routing data.
Controlling energy.**

VBS connection and flange clamp systems

Junction box systems
Flush-mounting and hollow wall systems
Terminal systems
Cable gland systems
Cable/pipe fastening systems, plastic
Metal pipe fastening systems
Cable/pipe fastening systems, special
Pipe systems
Beam clamp systems
Rail systems
BBS U clamp systems
Screw-in and knock-in systems

TBS transient and lightning protection systems

Surge protection systems
Equipotential bonding systems
Lightning protection systems
Earthing systems

KTS cable support systems

Mounting systems
Cable tray systems
Mesh cable tray systems
Cable ladder systems
Wide span systems
Vertical ladder systems
Luminaire support systems
Modular systems
Stainless steel systems
Function maintenance systems
and escape route installation systems

BSS fire protection systems

Fire insulation systems
Escape route installation systems
Fire protection duct systems
Function maintenance systems

LFS cable trunking systems

Cable routing systems, plastic
Cable routing systems, metal
Skirting trunking systems
Wiring trunking systems
Device installation duct systems, plastic
Device installation duct systems, steel
Device installation duct systems, aluminium
Service pole systems
Device systems
Fire protection duct systems

EGS device systems

Switch systems
OBO BUS systems
Intelligent workplace systems
Energy distribution systems
Modul 45 systems
Data technology systems
Industrial and special connector systems

UFS underfloor systems

Underfloor systems, screed-covered
Underfloor systems, flushfloor, open
Underfloor systems, flushfloor, closed
Underfloor systems, in concrete
Onfloor systems
Device installation systems
Modul 45 systems and data technology
Fire protection systems

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