

Prepare for tomorrow, today.

OptiLine 50 Installation System Product Overview Catalogue



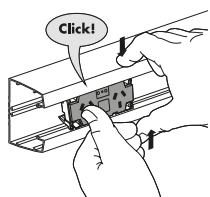
CLIPSAL[®]
by Schneider Electric

OptiLine 50 – the complete building installation system to achieve a fluid workspace.



1. Wiring devices

OptiLine 50 features Australia's first click-on/click-off wiring devices, covering the most common requirements, such as socket outlets and 30 Mech modules. Socket outlets are available in both horizontal and vertical versions to meet a range of installation requirements.



50% quicker

Quick installation due to click-on action, so no need for brackets, shrouds or mounting accessories.



2. Floor boxes

The OptiLine 50 range offers smart solutions for stationary floor installations, with robust and easy-to-mount floor boxes, constructed in aluminium alloy with stainless steel or gun metal finish. Shearsafe technology ensures cables and users are protected.



Safety and flexibility

Large capacity with up to 12 power outlets. OptiLine Shearsafe™ technology ensures hands and cables are protected.



3. Poles

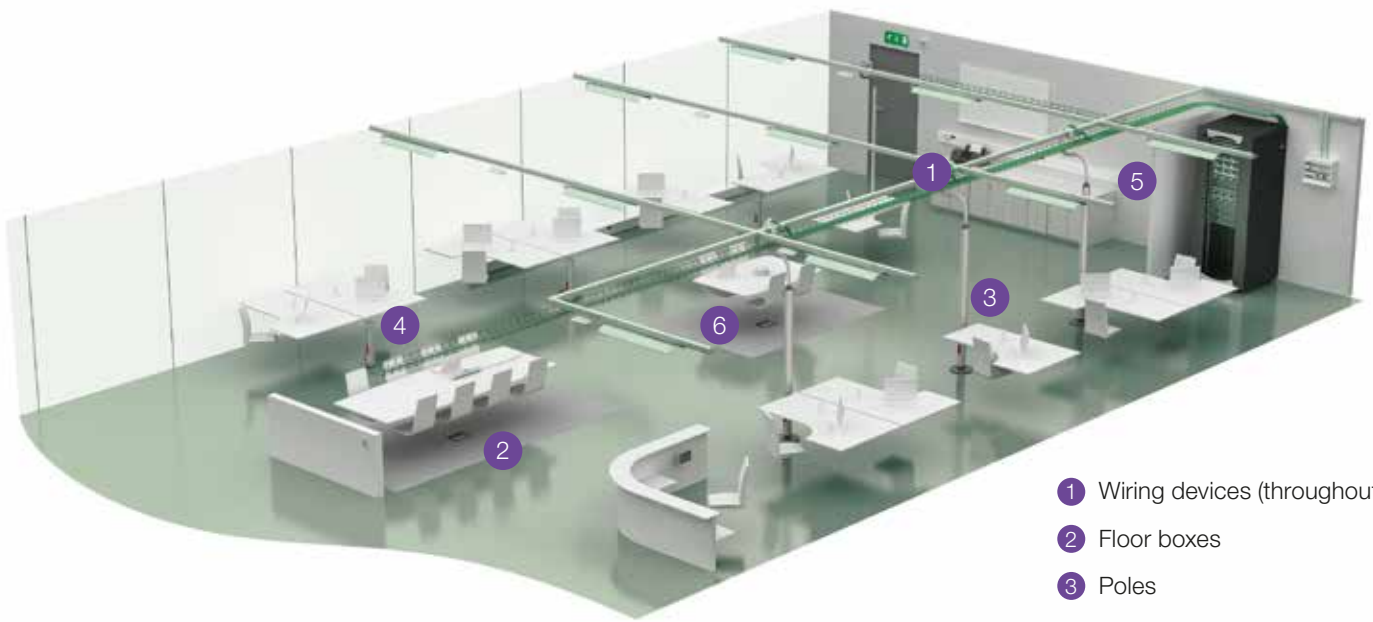
OptiLine 50 Poles allow for truly flexible installation. Just move power and networking around to suit your requirements.

The poles are available either free-standing, tension-mounted between floor and ceiling, or wall-mounted.



Free-standing

The free-standing poles are connected to the ceiling by a flexible conduit, making the pole movable within a radius of 1.5m. The heavy and stable foot is available in a round or rectangular shape.



- ① Wiring devices (throughout)
- ② Floor boxes
- ③ Poles
- ④ Posts
- ⑤ Installation trunking
- ⑥ Furniture boxes



4. Posts

For maximum flexibility, power and networking can be supplied under the floor, while providing accessibility through stable and easy-to-mount outlet posts.



5. Trunking

Available in a choice of four sizes and constructed from halogen-free plastic, OptiLine 50 can be adapted to be fitted wherever it suits you.



6. Furniture boxes

A broad range of furniture boxes offers great versatility. With flush-mount or pop-up versions, you can choose a solution that best suits accessibility, along with an attractive appearance to best suit the surrounds.



Fixed position

The stylish design with softly rounded aluminium edges provides protection for sensitive cables.



Halogen-Free

Halogen-free plastic construction provides increased safety and is also environmentally friendly.



Seamless style

Provide elegant access to power and networks wherever required.

Prepare for tomorrow, today.

OptiLine 50

OptiLine 50 is a versatile, “fluid”, installation system that can be fitted quickly and with precision into any floor plan. With 25% fewer parts, plus a simple click-in or click-out of each unit, you will save time and money with every retrofit, and every time a new occupant needs to be accommodated.

The next generation of electrical and data installation system, OptiLine 50 integrates the benefits of Clipsal wiring devices, with Schneider Electric cable management products. This combination sets a new standard for more effective installations.

Essentially a completely new installation system, OptiLine 50 combines what was best from previous systems, with smart new solutions and improvements. Incorporating the experience and knowledge gained over decades of development, OptiLine 50 provides you with a simpler, smarter, more flexible, quality installation system.

The system consists of socket outlets, data points, trunking, posts, poles, floor boxes and furniture boxes.

100%

new

Although you may recognise some of the functions of OptiLine 50, it is in fact a completely new installation system.

By utilising the smartest functions from previous systems and augmenting them with clever new solutions based on our thorough understanding of how electricians work, we have designed an entirely new system.

50%

quicker installation

Since OptiLine 50 includes fewer parts and incorporates innovative use of time-saving functions (such as click action and trunking with removable covers), it can reduce the working-time required for an installation by half. This means you can complete twice as many jobs in the same amount of time, opening up for new working alternatives.

25%

fewer parts

We've reduced the number of parts of an ordinary system (often amounting to around 1,000 components), to around 360. This radical reduction means OptiLine 50 makes planning an installation and ordering the components far simpler.

25%

more for your money

Since OptiLine 50 consists of fewer parts (that can be dismantled and re-used), the system is a financially sound investment. However, the greatest advantage is for the electrician, who can now do more in a shorter time. This means installation costs could be reduced by 25% while increasing the profit-margin. All in all, OptiLine 50 provides more value for the money.

0% trouble

Clipsal by Schneider Electric has vast experience of previous installation systems, so both advantages and shortcomings are familiar to us. This knowledge has allowed us to keep what works and to improve on things that could be better. The result is OptiLine 50, with 0% trouble for both electricians and end users. And of course, you have the reassurance that you can rely on us for unrivalled support.

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Wiring devices

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Simple click-in or click-out of each unit will save you time and money.

The wiring device system that is especially dedicated for OptiLine 50 is based on 50mm modules that are snapped into the front opening. The system includes a complete range of power outlets with different colour fascias (white, dark grey and red), two module DIN enclosure, junction box and a 30 Mech/keystone module to fit any Clipsal accessory from the range.

The power outlet is 10A, double-pole hard wired, in vertical or horizontal and capable to interexchange fascia to match customer needs.



INS62021/INS62020/INS62022




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


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
Socket outlets

Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Cat. No.
Socket outlets						
Double socket outlet according to Australian standard, with label window and label. Automatic switch. Screw termination, shuttered. Horizontal or vertical pattern, cable protection over the terminals included. Strain relief can be achieved with cable tie, not included. To be snap-fitted in the front opening. Material: PC/ABS.						
Twin fascia, horizontal	White	50/46,5/99,5		5	9311554774844	INS62021
Twin fascia, horizontal	Dark grey	50/46,5/99,5		5	9311554774820	INS62020
Twin fascia, horizontal	Red	50/46,5/99,5		5	9311554774868	INS62022
Twin fascia, vertical	White	50/46,5/99,52		5	9311554774905	INS62024
Twin fascia, vertical	Dark grey	50/46,5/99,52		5	9311554774882	INS62023
Twin fascia, vertical	Red	50/46,5/99,52		5	9311554774929	INS62025

30 Mech / keystone module

Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Cat. No.
Basic kits						
Basic kit including mounting frame, snap-fitted cover in flat design, label window and label. To be snap-fitted in the front opening. Intended for fitting any Clipsal 30 Mech accessory (e.g. 30USB Charger, 30RJ45 Data Connector or 30HDMI Adaptor) and keystone connectors. Material: PC/ABS.						
1 x 30 Mech/keystone	White	50/30/50		1	9311554774967	INS62027
1 x 30 Mech/keystone	Dark grey	50/30/50		1	9311554774943	INS62026

Accessories

Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
DIN enclosure					
2 module DIN enclosure for mounting in service carriers with front F50. Suitable for 1–2 DIN modules. With hinged lid to protect the devices. To be snap-fitted in the front opening. Material: PC/ABS.					
DIN enclosure	White	50/86/150		1	INS68104
Junction box					
Junction box including cover with label window. To be snap-fitted in the front opening. Material: PC.					
Junction box	White	50/55/150		1	INS68000



INS68104



INS68000

Technical description



OptiLine 50 Floor Boxes

8

Access to power should be flexible and safe during installation and use.

There are many advantages to supplying power and data from the floor. OptiLine 50 Floor Boxes allow power to be available all around the premises, due their two size options (8 and 12 module). This means that the planning of a room is not restricted by the infrastructure. Both the end user and the electrician can benefit from the accessibility. OptiLine 50 Floor Boxes are equally suited to raised access floors and screeded floors.

Available in two designs (flush and recessed) and colours (stainless steel finish and gun metal).

Protecting users and cables

All OptiLine 50 Floor Boxes come with Shearsafe technology, which includes an automatic, soft-close function. The lid can remain open at 80°, or soft-close from 20°, preventing it slamming directly onto hands, feet and cables. The gentle, tapered design of the lid's chamfered edges also reduces the guillotining action when it eventually closes. OptiLine Floor Boxes are the only ones on the Australian market with Shearsafe technology to protect users and cables.

Applications

OptiLine 50 Floor Boxes allow convenient access to power, without creating a hazardous environment. The electrical cables run safely through the cable guide retainers and out through the exit flap, so the lid can remain closed when unattended.

Schools, open-plan offices, exhibition centres and shopping centres were just some of the specific applications considered when Clipsal by Schneider Electric designed this truly flexible electrical delivery solution.

The range includes two lid designs (recessed or flush) to complement all types of flooring, such as concrete slabs, raised floor tiles and carpet. The floor box carcass is made of stainless steel. You can also choose from an aluminium alloy lid with stainless steel finish or a gun metal finish.



Floor boxes

Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Cat. No.
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Metal floor boxes

8 and 12 module stainless steel floor boxes complete with die cast aluminium lid in stainless steel or gun metal colour. Lids provided with a protective film on the upper surface. There are two versions of the lid available. One lid has a recess for lid infill and one has a flat-top surface to be used as is. Soft closing lid protects both user fingers and cables. The special design of the interface between the lid and frame also protects cables from being pinched. All cables should be routed through the cable exit. When installed in concrete, use screed box INS62038 for 8 module and INS62039 for 12 module. Material: stainless steel and die cast aluminium.

8 module floor box with flush lid	Stainless	91/255/278		1	9311554771904	INS62030
8 module floor box with recessed lid	Stainless	91/255/278		1	9311554771928	INS62032
8 module floor box with flush lid	Gun metal	91/255/278		1	9311554771911	INS62031
8 module floor box with recessed lid	Gun metal	91/255/278		1	9311554771935	INS62033
12 module floor box with flush lid	Stainless	91/255/378		1	9311554771942	INS62034
12 module floor box with recessed lid	Stainless	91/255/378		1	9311554771966	INS62036
12 module floor box with recessed lid	Gun metal	91/255/378		1	9311554771959	INS62035
12 module floor box with recessed lid	Gun metal	91/255/378		1	9311554771973	INS62037

Metal floor boxes

8 module stainless steel floor box carcass. For use together with 8 module lid flush or recessed, stainless steel colour or gun metal. When installed in concrete, use screed box INS62038. Material: stainless steel.

8 module carcass AU	-	88/235/270		1	9311554775100	INS51245
12 module stainless steel floor box carcass. For use together with 12 module lid flush or recessed, stainless steel colour or gun metal. When installed in concrete, use screed box INS62039. Material: stainless steel.						
12 module carcass AU	-	88/235/370		1	9311554775117	INS51240



INS62030



INS62032



INS62031



INS62033



INS62034



INS62036



INS62035



INS62037




INS51245



INS51240

Accessories

Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Cat. No.
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Screeded boxes

Metal screed box for use with 8 module stainless steel floor box carcass. Minimum screed depth 195mm. Suitable for flexible conduit feeders. When used in deeper screed, adjusters should be used to level the box with the achieved floor surface. Note, please be aware of the minimum bending radii of cables during installation of the floor box.
Material: sheet steel.

Screeded box 8 modules carcass	–	90/295/400		1	9311554771980	INS62038
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Metal screed box for use with 12 module stainless steel floor box carcass. Minimum screed depth 195mm. Suitable for flexible conduit feeders. When used in deeper screed, adjusters should be used to level the box with the achieved floor surface. Note, please be aware of the minimum bending radii of cables during installation of the floor box.
Material: sheet steel.

Screeded box 12 modules carcass	–	90/295/400		1	9311554771997	INS62039
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Lid, stainless steel finish

Lid infill to be used in the lid of floor boxes. Provided with a protective film on the upper surface and a soft rubber layer with self-adhesive tape underneath. If the lid infill is to be used in a metal floor box, a 9mm thick extra spacer material is required.
Material: die-cast aluminium, silicone rubber.

For 8 module carcass flush	–	21/255/278		1	9311554775032	INS51220
For 8 module carcass recessed	–	21/255/278		1	9311554775049	INS51230
For 12 module carcass flush	–	21/255/378		1	9311554775087	INS51200
For 12 module carcass recessed	–	21/255/378		1	9311554775094	INS51210

Lid, gun metal steel

Lid infill to be used in the lid of floor boxes. Provided with a protective film on the upper surface and a soft rubber layer with self-adhesive tape underneath. If the lid infill is to be used in a metal floor box, a 9mm thick extra spacer material is required.
Material: die-cast aluminium, silicone rubber.

For 8 module carcass flush	–	21/255/278		1	9311554775025	INS51225
For 8 module carcass recessed	–	21/255/278		1	9311554775056	INS51235
For 12 module carcass flush	–	21/255/378		1	9311554775063	INS51205
For 12 module carcass recessed	–	21/255/378		1	9311554775070	INS51215

Technical description

Parameter	Description
Max. opening lid angle	80 (+/-5 degree)
Lids material	Die-cast aluminium
Carcass material	Stainless steel
Lids finish	Stainless steel and gun metal
Carcass finish	Stainless steel
Screed box material	Steel (sheet)
Screed box finish	Metal
Ingress protection code	IP40
Load rating	200Kg
Outlets suitable	Dedicated OptiLine 50 wiring devices



INS62038



INS62039



INS51220



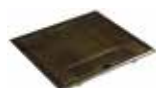
INS51230



INS51200



INS51210



INS51225



INS51235

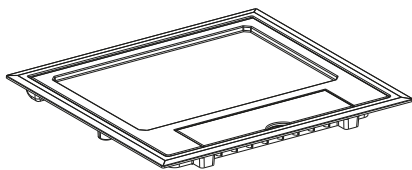


INS51205



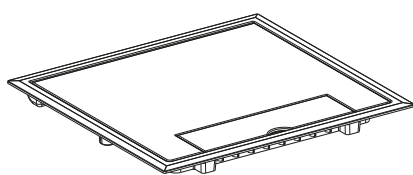
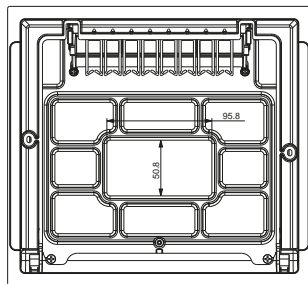
INS51215

8 module lids and carcass



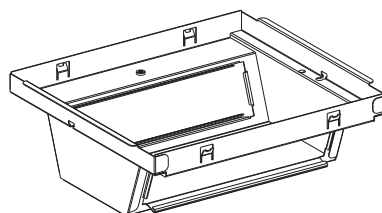
Dimension: 21 x 255 x 278mm

INS51230/INS51235



Dimension: 21 x 255 x 278mm

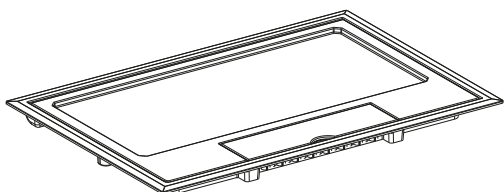
INS51220/INS51225



Dimension: 88 x 235 x 270mm

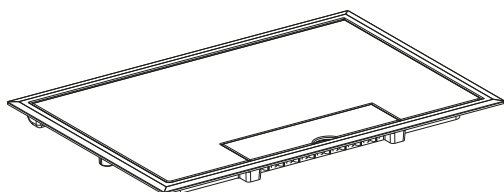
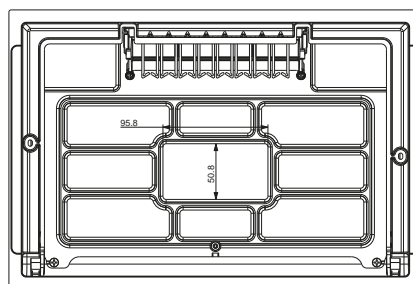
INS51220/INS51225

12 module lids and carcass



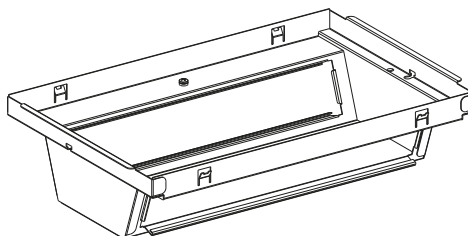
Dimension: 21 x 255 x 378mm

INS51210/INS51215



Dimension: 21 x 255 x 378mm

INS51200/INS51205



Dimension: 88 x 235 x 370mm

INS51240

OptiLine 50 Poles

12

Flexibility to adapt to changing requirements.



Outlets fixed to the wall tend to limit the application scope of your premises. Instead, the simple idea behind OptiLine 50 Poles is to let you move the power according to your needs. The infrastructure will be finished early in the building stage, the power being supplied in the ceiling by means of (for instance) a Busway System (Canalis Power Distribution) and mesh trays for data and telecoms.

Application

The poles, to which power and data/telecoms are distributed from the ceiling, are connected at the end of the building phase. They are available free-standing and tension-mounted, in a natural anodized finish.

Benefits

- Stable and robust design.
- Softly rounded and slender form.
- Well-rounded stop ends protect cables from sharp edges.
- Movable poles have steady feet. The rectangular foot allows poles to be installed back-to-back or against a wall.
- Movable poles have an action radius of 1.5m from the connection point in the ceiling.
- Slots on both sides of the pole allow easy mounting of accessories. Also for decorative stripes in three colours (only for one- and two-sided poles).
- Tool-less, fast and space-saving height adjustment for tension mounted poles.

One- and two-sided

The poles are available in one or two sides and are empty, in order to adapt to specific customer requirements.

Tension-mounted poles for a discreet solution

A tension-mounted pole is your best choice when you want to occupy less floor space. The pole can be placed anywhere in the room, tension-mounted to the ceiling for stability. The compact foot provides a very effective and discreet solution in any environment that requires plenty of outlets, like a reception or a classroom.



Smart ceiling fixing

The height adjustment is easily made without tools entirely outside the pole, thus not affecting the outlet configuration.



No sharp edges

The end piece is made from die-cast aluminium with smooth edges, preventing cables from being damaged.



Discreet ceiling frames

The connections to the ceiling are easily mounted without tools. They are designed to handle various ceiling dimensions and provide an attractive touch to the installation.

Free-standing poles for a total flexibility

The free-standing poles are provided with a stable and solid foot, making it easy to relocate the poles according to changing needs of the users. The rectangular foot also enables you to place two poles in a back-to-back position, or one pole close to a wall.



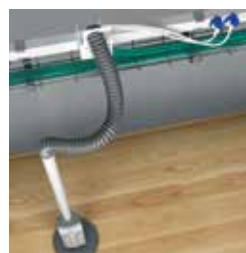
Decoration and fixing

Both sides of the poles are provided with slots, into which you can screw-fix (for instance) a lamp, without causing damage to the pole. You can also fit decorative stripes into them.




All solutions available

Accessories are available for all types of mounting.




Empty poles, one- and two-sided

Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Cat. No.
Pole, tension-mounted, one-sided, empty						
Free-standing and tension-mounted service pole, one-sided. Empty without outlets and cables. Including plastic front cover, ceiling fixing, ceiling frame, stop end, floor fixing, floor fixing plate (zinc), earth clamps and mounting instruction. Adjustability of ceiling fixing 400mm. Material: aluminium, natural anodized, PC/ABS.						
Pole, one-sided	Anodised	2700-3100/68/89		1	3606480701016	INS43406
Pole, tension-mounted, two-sided, empty						
Free-standing and tension-mounted service pole, two-sided. Empty without outlets and cables. Including plastic front cover, ceiling fixing, ceiling frame, stop end, floor fixing, floor fixing plate (zinc), earth clamps and mounting instruction. Adjustability of ceiling fixing 400mm. Material: aluminium, natural anodized, PC/ABS.						
Pole, two-sided	Anodised	2700-3100/116/90		1	3606480701023	INS43416
Pole, free-standing, one-sided, empty						
Free-standing and movable service pole, one-sided. Empty without outlets and cables. Including plastic front cover, flexible conduit with adaptor, earth clamps and mounting instruction. Length of flexible conduit 2.0m, action radius 1.5m from the connection point in the ceiling. Foot to be ordered separately. Material: Aluminium, natural anodized, PC/ABS.						
Pole, one-sided	Anodised	2150+2000/68/89		1	3606480701009	INS43402
Pole, free-standing, two-sided, empty						
Free-standing and movable service pole, two-sided. Empty without outlets and cables. Including plastic front cover, flexible conduit with adaptor, earth clamps and mounting instruction. Length of flexible conduit 2.0m, action radius 1.5m from the connection point in the ceiling. Foot to be ordered separately. Material: aluminium, natural anodized, PC/ABS.						
Pole, two-sided	Anodised	2150+2000/116/90		1	3606480701030	INS43412

INS43406/INS43416

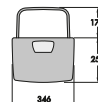
INS43402/INS43412

Standing


Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
Foot for free-standing, movable pole					
Rectangular foot for free-standing, movable pole, to be fixed to the bottom plate of the pole by means of two M6 bolts (included). The foot is provided with a steel clamp that can be unfolded for extra support. When not in use, the clamp lies protected in a recess underneath the foot. Specially suited in applications close to the wall or when two poles are positioned back to back. Material: cast iron, painted.					
Foot, rectangular	Grey	33/250/346		1	ISM20809
Round foot for free-standing, movable poles, to be fixed to the bottom plate of the pole by means of two M6 bolts (included). Suitable both for one and two-sided poles. Material: cast iron, painted.					
Foot, round	Grey	29/Ø317		1	ISM20808

ISM20809

ISM20808



Accessories for service poles

Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
Ceiling frame					
Ceiling frame intended to lead flexible conduit through false ceiling. Also suitable for Ø52 and Ø65mm pole profiles (tension mounted poles with boxes). To be mounted in circular hole, Ø125mm, by using three included clamps. Also including a slotted plastic plate to be used to lock the flexible conduit, which is fixed by cable ties. The plate can also be used as a drill template for entrance hole Ø125mm. Material: PC/ABS.					
Ceiling frame	White	89/Ø161		1	ISM20812
Cable tray fixing					
Cable tray fixing including fixing material, intended to connect flexible conduit to cable tray. Gripping around cable tray. Material: steel, powder coated white RAL 9010.					
Cable tray fixing	White	100/15/70		1	ISM20813
Ceiling fixing					
Ceiling fixing intended to connect flexible conduit to ceiling or wall. Fixings not included. Material: aluminium, powder coated white RAL 9010.					
Ceiling fixing	White	50/156/90		1	ISM20816
Floor fixing with slot for floor feeder					
Floor fixing for one or two-sided service pole. Fixed to the floor by screws. With slot for connection of floor feeder 18x75mm. Material: aluminium, powder coated grey RAL 9007.					
For one-sided pole	Grey	38/125/102		1	ISM20820
For two-sided pole	Grey	38/125/156		1	ISM20821
Floor feeder					
Floor feeder made up by a base part with three compartments and a cover, supplied in lengths of 2m. To be used for feeding along the floor to a service pole provided with floor fixing with floor feeder slot. Material: PVC.					
Floor feeder	Grey	18/75/2000		28m	ISM20817
Floor feeder made up by a base part with three compartments and a cover. Supplied in lengths of 2m. To be used for feeding along the floor to a service pole or post provided with a slotted floor fixing for 18x75mm floor feeder. Material: aluminium, natural anodized.					
Floor feeder	Anodised	18/75/2000		8m	ISM20857



ISM20812



ISM20813



ISM20816



ISM20820



ISM20821



ISM20817

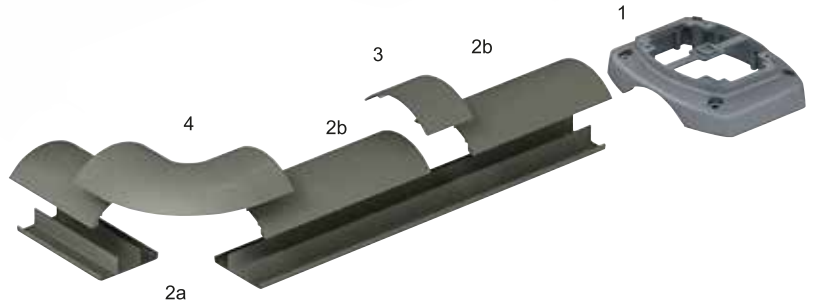


ISM20857

Technical description

Exploded view: floor feeder for one- and two-sided pole

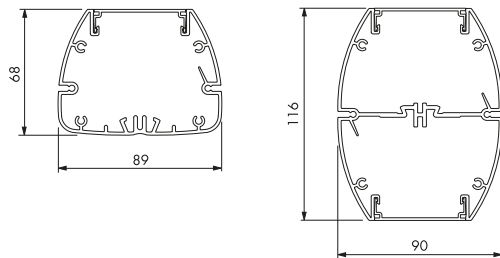
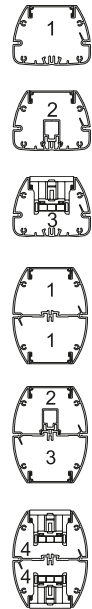
- 1. Floor fixing with slot for feeder profile
- 2. Floor feeder
 - a. Base profile
 - b. Cover
- 3. Floor feeder jointing piece
- 4. Corner feeder piece



Cable capacity

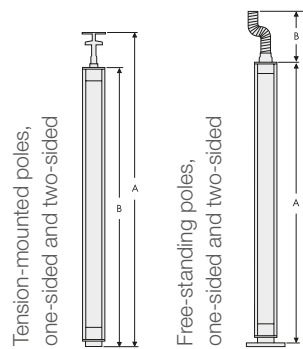
Comp.	Max. Ømm	Cross section area mm ²	Cable capacity* mm ²		
			40%	50%	60%
One-sided pole					
1	55	4572	1828	2285	2742
One-sided pole with guide profile					
2	30	40122	1604	2005	2406
One-sided pole with socket outlet					
3	21	2822	1129	1411	1693
Two-sided pole					
1	47	3952	1581	1976	2371
One-sided pole with guide profile					
2	32	3458	1383	1729	2075
3	48	4014	1606	2007	2408
Two-sided pole with socket outlets					
4	21	2278	911	1139	1367

*We recommend a 40% utilisation of the cable capacity.



Design and dimensions

Tension-mounted poles	
A: total height*	B: height without ceiling fixing
Min. 2700mm	2527mm
Max. 3100mm	
*Free height max. 4500mm	
Free-standing poles	
A: total height of pole (without foot)	C: length of flex conduit
2150mm	2000mm



OptiLine 50 Posts

18

The perfect alternative to poles when the power distribution comes from the floor.

Posts are a perfect alternative to poles when the power distribution comes from the floor. OptiLine 50 Posts have a smooth and compact design to complement any interior setting. They are supplied empty to adapt and suit, as per customer or installation requirements. OptiLine 50 Posts have a wide range of accessories.

Application


The posts provide solutions for the supply of power, telecom and data to workplaces on various types of floor. On raised access floors and in-cavity floors they are fed from under the floor, on concrete floors the feeding comes from a screeded floor box. For other floors, a floor feeder profile is available as an accessory.

Benefits

- Stable and robust design.
- Softly rounded and compact form.
- Accessories for above-floor supply.
- Slots on both sides of the post allow easy mounting of accessories and decorative stripes (available in three colours – suitable only for one- and two-sided posts).



Empty posts

Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Cat. No.
One-sided post, empty						
One-sided service post mounted on a floor fixing. Empty without outlets and cables. Including plastic front cover, stop end, earth clamps and mounting instruction. Gasket ring included for the floor fixing. Material: aluminium, natural anodized or powder coated white RAL 9010, PC/ABS.						
One-sided post	White	602/102/125		1	3606480701054	INS43503
One-sided post	Grey	602/102/125		1	3606480701054	INS43502
Two-sided post, empty						
Two-sided service post mounted on a floor fixing. Empty without outlets and cables. Including plastic front cover, stop end, earth clamps and mounting instruction. Gasket ring included for the floor fixing. Material: aluminium, natural anodized or powder coated white RAL 9010, PC/ABS						
Two-sided post	White	602/156/125		1	3606480701078	INS43513
Two-sided post	Grey	602/156/125		1	3606480701078	INS43512
Four-sided post, empty						
Four-sided service post mounted on a floor fixing. Empty without outlets and cables. Including plastic front cover, stop end, earth clamps and mounting instruction. Gasket ring included for the floor fixing. Material: aluminium, natural anodized or powder coated white RAL 9010, PC/ABS.						
Four-sided post	White	592/200/180		1	3606480701092	INS43523
Four-sided post	Grey	592/200/180		1	3606480701092	INS43522



INS43503/INS43502




INS43513/INS43512



INS43523/INS43522

Accessories

Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
Floor fixing with slot for floor feeder					
Floor fixing for one or two-sided sided service post. Fixed to the floor by screws. With slot for connection of floor feeder 18x75mm. Material: aluminium, powder coated grey RAL 9007.					
For one-sided post	Grey	38/125/102		1	ISM20820
For two-sided post	Grey	38/125/156		1	ISM20821
Floor feeder, PVC					
Floor feeder made up by a base part with three compartments and a cover, supplied in lengths of 2m. To be used for feeding along the floor to a service post provided with a slotted floor fixing for 18x75mm floor feeder. Material: PVC.					
Floor feeder	Grey	18/75/2000		28m	ISM20817
Floor feeder, aluminium					
Floor feeder made up by a base part with three compartments and a cover. Supplied in lengths of 2m. To be used for feeding along the floor to a service pole or post provided with a slotted floor fixing for 18x75mm floor feeder. Material: aluminium, natural anodized.					



ISM20820



ISM20821




ISM20817



ISM20857

Accessories

Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
Floor feeder	Anodised	18/75/2000		10m	ISM20857
Floor feeder jointing piece					
Floor feeder jointing piece to cover joints between floor feeder sections. Material: PVC.					
Jointing piece	Grey	20/50/78		10	ISM20818
Corner feeder piece					
Corner feeder piece to be used in 90 degree corners between floor feeder sections. Material: PVC.					
Corner feeder piece	Grey	20/120/120		10	ISM20819
Decorative stripe					
Decorative stripe to be fitted in the slots along the sides of poles and posts. Supplied in lengths of 5m. Material: silicone rubber.					
Decorative stripe	Grey	5000/Ø3.5		5m	ISM20822
Decorative stripe	White	5000/Ø3.5		5m	ISM20823
Decorative stripe	Orange	5000/Ø3.5		5m	ISM20824
Earthing clamp					
Earthing clamp to be used for bonding of front cover, base profile and accessories to earth. Material: steel.					
Earthing clamp	–	9/9/9		20	ISM10952
Earthing kit					
Kit including earth wire with flat pin connectors and earthing clamps. To be used to connect the front cover to the base profile.					
Earthing kit	Yellow	L = 200		10	ISM10953
Earthing kit	Green	L = 200		10	ISM10954



ISM20818



ISM20819



**ISM20822/ISM20823/
ISM20824**



ISM10952



ISM10953/ISM10954

Design and dimensions



One- and two-sided posts	
A: total height (mm)	B: base profile (mm)
Min. 602 (standard)	558
Max. 702	658

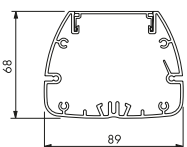
Technical description

Aluminium, extruded	Specification	EN-AW-6063
	Density	2.7g/cm ³
	Linear expansion	2.4x10 ⁻⁵ /°C
	Surface treatment	Natural anodising or powder coating
	Colour	White RAL 9010
Aluminium, die cast	Density	2.7g/cm ³
	Linear expansion	2.4x10 ⁻⁵ /°C
	Surface treatment	Powder coating
PVC	Colour	Grey RAL 9007
	Density	1.5g/cm ³
	Linear expansion	60x10 ⁻⁶ /°C
	Volume resistivity	>10 ¹³ Ω cm
	Water absorption	<0.2%
PC/ABS	Colour	Grey RAL 7030
	Density	1.14g/cm ³
	Linear expansion	70x10 ⁻⁶ /°C
	Volume resistivity	>10 ¹³ Ω cm
	Water absorption	0.6%
	Volume resistivity	>10 ¹³ Ω cm
	Dielectric strength	19 kV/mm
	Fire rating	UL 94 HB
Steel	Colour	White RAL 9010
	Specification	SS 1142
	Density	7.8g/cm ³
	Linear expansion	1.2x10 ⁻⁵ /°C
Degree of protection	IP40	
Temperature range	Operating temperature from 15°C to 60°C	
Standards and certificates	The products comply with the standard: <ul style="list-style-type: none"> • EN 50085-1 : 2005 The products satisfy the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 93/68/EEC.	

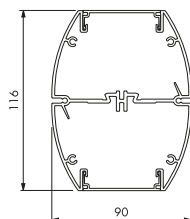
Cable capacity

Comp.	Max. Ømm	Cross section area mm ²	Cable capacity* mm ²		
			40%	50%	60%
One-sided post					
1	55	4572	1828	2285	2742
One-sided post with socket outlet					
2	21	2822	1129	1411	1693
Two-sided post					
1	47	3952	1581	1976	2371
Two-sided post with socket outlet					
2	21	2278	911	1139	1367

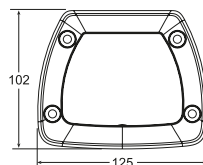
One-sided



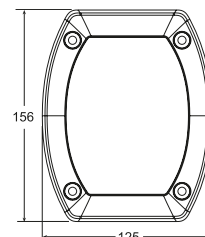
Two-sided



Floor fixing for one-sided



Floor fixing for two-sided



The OptiLine 50 Trunking

22 Halogen-free trunking.

OptiLine 50 Trunking is designed to make your work more effective. It provides maximum flexibility in regard to location to mounting. Above or below desk height, through walls or around corners – it can be installed almost anywhere. Available in a choice of sizes and constructed from newly designed halogen-free plastic, OptiLine 50 Trunking is easy to handle and cut, reducing the mounting time on-site.

Easily installed and complemented by accessories with click-in technology, the front opening measures just 50mm, but as all connections can be made outside the trunking, access problems are eliminated.



Pre-punched knock-out to facilitate and speed up feeding of cables to outlets.



Removable top covers on 120mm and 140mm trunking, allow you to install your data network from above.



Cable bending protections allow quick and safe data installations.



Protective foil in all trunking to prevent damage during transport and mounting phase.




Adjustable corners on 120mm trunking sizes for better fitment.



Internal jointing and external covers to facilitate neat joints.

PC/ABS halogen-free trunking

Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
Installation trunking, halogen-free					
Installation trunking consisting of a one-compartment trunking base. The trunking base has pre-punched mounting holes every 25th cm and can be provided with cable shelf. The front opening is adapted to direct click-in of 50mm wiring devices. Intended for direct wall mounting. The trunking base is supplied with protective foil, in lengths of 2.5m. Halogen-free. Material: PC/ABS.					
80 with one compartment	White	80/63/2500		10m	INS12100
100 with one compartment	White	100/63/2500		10m	INS12200
Installation trunking including two-compartment trunking base and removable top cover. The top cover is snap-fitted to the upper compartment and can be easily removed for ergonomic cable laying from above. The trunking base has pre-punched mounting holes every 25th cm and can be provided with cable shelf. The integrated partition wall has pre-punched knock-outs every 25th cm to facilitate cable laying. The front opening is adapted to direct click-in of 50mm wiring devices. Intended for wall mounting, either direct or on brackets. Trunking base and top cover are supplied unassembled under separate protective foil, in lengths of 2.5m. Halogen-free. Material: PC/ABS.					
120 with two compartments	White	120/63/2500		10m	INS12300
140 with two compartments	White	140/63/2500		10m	INS12400



INS12100



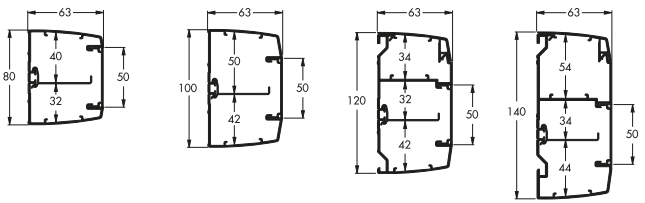
INS12200




INS12300



INS12400



Accessories for plastic trunking

Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
Internal corner, fixed					
Fixed internal corner for a 90 degree angling of plastic trunking. Material: PC/ABS.					
Internal corner 80	White	85/115/115		1	INS12101
Internal corner 100	White	105/115/115		1	INS12201
Internal corner, adjustable					
Adjustable internal corner for an 80–100 degree angling of plastic trunking. Material: PC/ABS.					
Internal corner 120	White	129/150/150		10m	INS12301
Internal corner 140	White	149/150/150		10m	INS12401



INS12101/INS12201



INS12301/INS12401

Accessories for plastic trunking



INS12102/INS12202



INS12302/INS12402



INS12103/INS12203



INS12107



INS12207



INS12104/INS12204




INS12304/INS12404




INS12105/INS12205



INS12305/INS12405

Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
External corner, fixed					
Fixed external corner for a 90 degree angling of plastic trunking. Material: PC/ABS.					
External corner 80	White	85/105/105		1	INS12102
External corner 100	White	105/115/115		1	INS12202
External corner, adjustable					
Adjustable external corner for a 70–140 degree angling of plastic trunking. Material: PC/ABS.					
External corner 120	White	129/153/153		1	INS12302
External corner 140	White	149/153/153		1	INS12402
Bend, 90°, kit					
90 degree bend kit for angling upwards and downwards of plastic trunking. Including bend piece and fixing device to be screw-fitted to the wall. Material: PC/ABS.					
Bend 80	White	102/63/102		1	INS12103
Bend 100	White	122/63/122		1	INS12203
T-piece					
T-piece intended to connect vertical and horizontal plastic trunking of various sizes. Material: PC/ABS.					
For vertical trunking 80 and horizontal trunking 100, 120, 140	White	52/63/101		1	INS12107
For vertical trunking 100 and horizontal trunking 100, 120, 140	White	52/63/121		1	INS12207
Stop end					
Stop end for plastic trunking. Screw-fixing. Material: PC/ABS.					
Stop end 80	White	84/30/65		2	INS12104
Stop end 100	White	104/30/65		2	INS12204
Stop end 120	White	124/30/65		2	INS12304
Stop end 140	White	144/30/65		2	INS12404
Wall/ceiling frame					
Wall/ceiling frame to be fitted around a plastic trunking at wall or ceiling passage. Snap-fitted, with a screw-fixing option. Material: PC/ABS.					
Wall/ceiling frame 80	White	130/22.5/88		1	INS12105
Wall/ceiling frame 100	White	150/22.5/88		1	INS12205
Wall frame					
Wall frame to be fitted around a plastic trunking at wall passage. The separate back piece is to be used when the trunking is mounted on brackets. Snap-fitted, with a screw-fixing option. Material: PC/ABS.					
Wall frame 120	White	170/22.5/113		1	INS12305
Wall frame 140	White	190/22.5/113		1	INS12405

Accessories for plastic trunking

Type	Colour	Dimensions A/B/C (mm)		Qty per package	Cat. No.
Joint cover piece, kit					
Joint cover piece, supplied and mounted together with two jointing pieces. Intended to cover joints between two plastic trunking sections. Easy to remove in case of an upgrading of the installation. Material: PC/ABS.					
Joint cover piece 80	White	84/65/90		1	INS12106
Joint cover piece 100	White	104/65/90		1	INS12206
Joint cover piece, supplied and mounted together with three jointing pieces. Intended to cover joints between two plastic trunking sections and the removable top cover. Easy to remove in case of an upgrading of the installation. Material: PC/ABS.					
Joint cover piece 120	White	124/65/90		1	INS12306
Joint cover piece 140	White	144/65/90		1	INS12406
Front cover					
Front cover to be snap-fitted in trunking with a 50mm front opening. Supplied with protective foil, in lengths of 2.5m. Material: PVC or PC/ABS.					
Front cover F50 PC/ABS	White	50/13/2500		30m	INS12900
Joint cover piece for front cover					
Joint cover piece intended to cover joints between two front covers. Material: PC/ABS.					
Joint cover piece	White	51/20/25		5	INS12902
Joint cover piece for top cover					
Joint cover piece intended to cover joints between two top covers. Material: PC/ABS.					
Joint cover piece 120/140	White	27/65/54		1	INS12911
Cable shelf					
Single cable shelf to be mounted in the trunking base, providing separation between power and low voltage cables. Supplied in lengths of 1m. Material: PC/ABS or PVC.					
Cable shelf PC/ABS	White	17/48/1000		24m	INS12904
Jointing piece					
Internal jointing piece intended to facilitate jointing of two trunking bases. May also be used to mount the joint cover piece. Material: PC/ABS.					
Jointing piece	White	5/30/90		10	INS12905
DIN enclosure					
2 module DIN enclosure for mounting in service carriers with front F50. Suitable for 1–2 DIN modules. With hinged lid to protect the devices. To be snap-fitted in the front opening. Material: PC/ABS.					
DIN enclosure	White	50/86/150		1	INS68104
Junction box					
Junction box including cover with label window. To be snap-fitted in the front opening. Material: PC.					
Junction box	White	50/55/150		1	INS68000



INS12106/INS12206



INS12306/INS12406



INS12900



INS12902



INS12911



INS12904



INS12905



INS68104



INS68000

Halogen-free plastics and accessories

Size 80



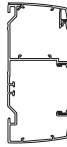
Size 100



Size 120



Size 140



Type	Cat. No.	Qty/pack	Cat. No.	Qty/pack	Cat. No.	Qty/pack	Cat. No.	Qty/pack
Trunking base	INS12100	10m	INS12200	10m	INS12300	10m	INS12400	10m
Internal corner, fixed	INS12101	1	INS12201	1	-	-	-	-
Internal corner, adjustable	-	-	-	-	INS12301	1	INS12401	1
External corner, fixed	INS12102	1	INS12202	1	-	-	-	-
External corner, adjustable	-	-	-	-	INS12302	1	INS12402	1
Bend 90°, kit	INS12103	1	INS12203	1	-	-	-	-
Stop end	INS12104	2	INS12204	2	INS12304	2	INS12404	2
Wall/ceiling frame	INS12105	1	INS12205	1	INS12305	1	INS12405	1
Joint cover piece, kit	INS12106	1	INS12206	1	INS12306	1	INS12406	1
T-piece, vertical 80	-	-	INS12107	1	INS12107	1	INS12107	1
T-piece, vertical 100	-	-	INS12207	1	INS12207	1	INS12207	1
Front cover	INS12900	30m	INS12900	30m	INS12900	30m	INS12900	30m
Cable shelf	INS12904	24m	INS12904	24m	INS12904	24m	INS12904	24m

Common accessories

	Cat. No.	Colour	Qty/pack	Cat. No.	Colour	Qty/pack
Joint cover piece for front cover 50mm	INS12902	White	5	INS12902	White	5
Jointing piece	INS12905	White	10	-	-	-



Trunking base



Internal corner, fixed



Internal corner, adjustable



External corner, fixed



External corner, adjustable



Bend 90°, kit



Stop end



Wall/ceiling frame



Joint cover piece, kit



T-piece, vertical 80



T-piece, vertical 100



Front cover



Cable shelf



Joint cover piece for front cover 50mm



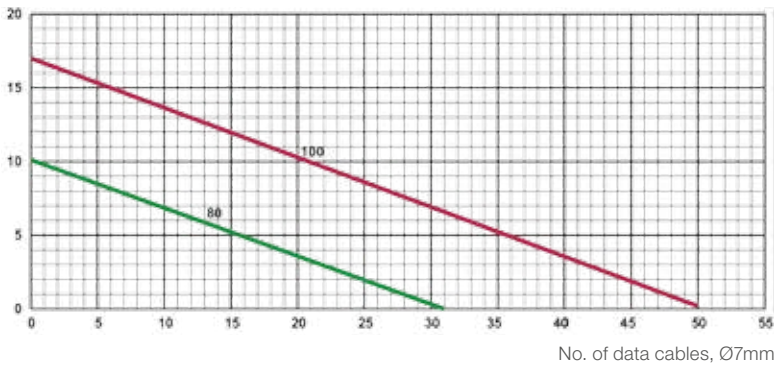
Jointing piece

Technical description: trunking without outlets

Data and power

Recommended cable capacity* when mixing data and power cables in the same trunking.

No. of power cables, Ø12mm (3x2.5mm²)

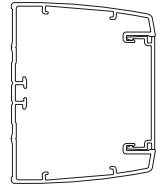


Size 80

Recommended cable capacity*:
data or power

Data: max. 31 cables

Power: max. 10 cables

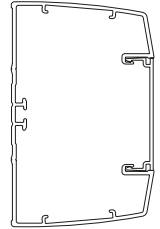


Size 100

Recommended cable capacity*:
data or power

Data: max. 50 cables

Power: max. 17 cables



*With fill factor 50%.

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Technical and material data

PC/ABS (polycarbonate/acrylonitrile butadiene styrene)	Density	1.14g/cm ³
	Linear expansion	70x10 ⁻⁶ /°C
	Water absorption	0.6%
	Fire rating	UL 94 HB
	Colour	White RAL 9010/Grey RAL 9006/ aluminium metallic
PA (polyamide), halogen-free	Density	1.16g/cm ³
	Water absorption	2.0%
	Fire rating	UL 94 V0
	Colour	Green
Steel	Specification	Corrosion protected cold-rolled steel with a layer thickness of at least 7µm per side.
	Density	7.646g/cm ³
	Linear expansion	11.5x10 ⁻⁶ /°C
	Surface treatment	Hot-dip zinc coated Z100
	Colours (powder coating)	White RAL 9010 Aluminium metallic
Degree of protection	IP40	
Resistance to impact	2J (IK07)	
Temperature range	Min. storage and transport temperature -25°C	
	Min. installation and application temperature -5°C	
	Max. application temperature 60°C	
Standards and certificates	The products comply with the standards: • EN 50085-1:2005 • EN 50085-2-1:2006	
	The products satisfy the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 93/68/EEC.	
	The products comply with the RoHS directive 2002/95/EC (Restriction of Hazardous Substances).	

OptiLine 50 Furniture Boxes

28

Purpose built for a finishing touch.

OptiLine 50 Furniture Boxes lend a touch of modern exclusivity to the workplace. Flip-up, pop-up and other furniture integrated solutions, provide elegant access to power and networks wherever required.

Application

OptiLine 50 Desk Units provide flexible solutions for the supply of power, telecom and data directly to the workplace.

The pop-up box has been specially designed for conference rooms and other rooms for meetings, where only occasional connections to power and VDI are needed.

Benefits

- Made of natural anodized aluminum with a high finish.
- Pre-wired power for easy ordering and quick installation.
- Pop-ups offer unique user advantages in terms of design and accessibility.
- Feeder accessories comfortably bring cables from the ceiling to the box.
- Flip-up, flush- and surface-mounted boxes can be hard wired or soft wired, due to the inclusion of Wieland connector and fly lead.



Flip-up, Pop-up and Pull-up



Flip-up

Flush-mounted box with a spring-loaded cover that is opened by a light touch. A cable basket is easily mounted under the box.



Hydraulic pop-up

Large-capacity box, six-sided. A light touch activates a gas operated spring that slowly pushes the box up into working position.



Manual Pull-up

A manual pull-up box with a smart membrane on top, enabling the box to be pushed down flush with the desk surface. Also with connected cables and plugs.



Flush-mounted



Flush-mounted box

Boxes with a flange to hide the edges of the hole in the desk. With Wieland connector for safe and quick power connection. Suitable for all desk-tops up to 24mm.

Surface-mounted









Surface-mounted box for every need



Universal boxes with smart fixing devices. Can be fixed to a desk, to a wall or to cable trays. All with Wieland installation couplers for safe and quick power connection.



Furniture Boxes

Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Cat. No.
Surface, under or side mounted unit, pre-defined/pre-wired						
One-sided desk unit configured with 2x double power outlets, Australian standard, Wieland termination and 2x 30 Mech/keystone data outlet. To be mounted on desk, cable tray or wall by means of dedicated fixings Earthed. Material: aluminium, natural anodized.						
 INS43600		2x double power outlets AU, 2x30 Mech/keystone data	Anodised	60/62/412	1	3606480701108 INS43600
Flush-mounted desk unit with flange, pre-defined/pre-wired						
Flush-mounted desk unit with a flange configured with 2x double power outlets, Australian standard, Wieland termination and 2x 30 Mech/keystone data outlet. To be mounted in a desk-top. Fixing elements included. Earthed. Material: aluminium, natural anodized.						
 INS43620		2x double power outlets AU, 2x Mech/keystone data	Anodised	60/62/417	1	3606480701122 INS43620
Flip-up, pre-defined/pre-wired						
Flush-mounted desk unit provided with a flip lid. Configured with 1x double power outlet, Australian standard, Wieland termination and 2x 30 Mech/keystone data outlet. To be mounted in a desk-top. Fixing elements included. Earthed. Thickness of desk-top: 10–40mm, hole dimension: 142x295mm. Please note! Degree of protection on this article IP20. Material: aluminium, natural anodized, and steel, powder coated grey RAL 9006.						
 INS43626		1x double power outlet AU, 2x 30 Mech/keystone data	Anodised	105/160/305	1	3606480701139 INS43626
Manual Pull-up, pre-defined/pre-wired						
Pop-up function desk unit, one-sided, manual. Configured with 1x double power outlet, Australian standard, with 3m 1.5mm ² external cable without plug and 2x 30 Mech/keystone data outlet. When inactive, the box lies flush with the desk-top. By a light pressure on the top, the box can be lifted up from the desk surface. As soon as the box is not in use, it is easily pressed back to the flush level. Earthed. Hole dimension: Ø100mm. Material: aluminium, natural anodized, and powder coated zinc and aluminum.						
 INS43630		1x double power outlet AU, 2x 30 Mech/keystone data 3m cable	Anodised	319/Ø112	1	3606480701146 INS43630
Hydraulic Pop-up, pre-defined/pre-wired						
Pop-up function desk unit, six-sided, operated by a gas spring. Configured with 3x double power outlets, Australian standard, with 3m 1.5mm ² power cable without plug and 4x 30 Mech/keystone data outlets. Including fixing clamp and hooks for excess cables. When inactive, the box lies flush with the desk-top. By a light pressure on the top, a gas spring becomes activated and makes the box pop up from the desk surface. As soon as the box is not in use, it is easily pressed back to the flush level. Earthed. Hole dimension: Ø 216mm. Material: aluminium, powder coated grey RAL 9006.						
 INS43640		3x double power outlets AU, 4x 30 Mech /keystone data 3m cable	Grey	325/Ø236	1	3606480701153 INS43640

Accessories

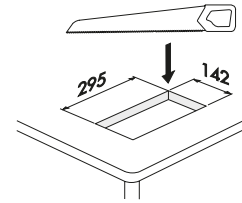
Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Cat. No.
Flexible conduits						
Flexible conduit (split tube), Ø25mm, to be used for cable feeding from ceiling to service carrier or from floor box to desk top. Cables to be laid by using dedicated mounting tool. Material: PP.						
 ISM50850		Flexible conduit	Grey metallic	Ø25/2000	2	3606480150340 ISM50850

Technical description

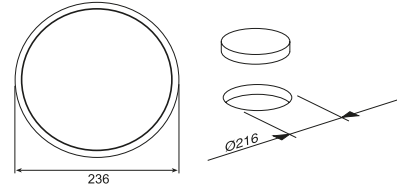
Aluminium service boxes	Specification	EN-AW-6063
	Density	2.7g/cm ³
	Linear expansion	2.4x10 ⁻⁵ /°C
	Surface treatment	Natural anodising
Aluminium accessories	Specification	EN-AW-6063
	Density	2.7g/cm ³
	Linear expansion	2.4x10 ⁻⁵ /°C
	Surface treatment	Natural anodising or powder coating
	Colour	White RAL 9010/Grey RAL 9007
Steel	Specification	SS 1142
	Density	7.8g/cm ³
	Linear expansion	1.2x10 ⁻⁵ /°C
	Surface treatment	Powder coating
	Colour	White RAL 9010/Grey RAL 9006/ aluminium metallic
PUR (polyurethane)	Density	1.2g/cm ³
	Colour	White NCS S 0402-B91G/ aluminium metallic
PC/ABS (polycarbonate/ acrylonitrile butadiene styrene)	Density	1.14g/cm ³
	Linear expansion	70x10 ⁻⁵ /°C
	Volume resistivity	>10 ¹³ Ω cm
	Water absorption	0.6%
	Fire rating	UL 94 HB
	Colour	White RAL 9010
Degree of protection	IP30	
Temperature range	Operating temperature from -15°C to 60°C	
Standards and certificates	The products comply with the standards: <ul style="list-style-type: none"> • IEC 1084-1 (basic service box only) • IEC 1084-2-4 (basic service box only) • SS 424 10 32: 1989 	
	The products satisfy the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 93/68/EEC	

Dimensions

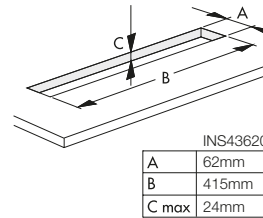
Flip-up



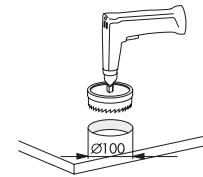
Hydraulic Pop-up



Flush-mounted desk box with flange



Manual Pull-up



For more information, contact your local
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wholesaler or visit clipsal.com/optiline50

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