

Description

The OptiLine 50 Floor box system is an installation system for power and data links in office flooring.

OptiLine 50 floor boxes are made of polyamide or stainless steel and include a trim frame, a lid and a mounting frame for four, eight or fifteen 50x50 module wiring devices.

The lid of the plastic floor box can be decorated with floor material of 6 mm thickness, while the stainless steel box allows up to 15 mm thick decoration materials. Lid infills of grey linoleum or stainless steel are available as a suitable accessory.

The floor boxes have an integrated, convenient and tool-free quick fixation. However, an additional swivel fixing kit is available in the accessory range.

The OptiLine Floor box system is suitable for use in raised access floors. in-cavity floors and hollow core floors.

Benefits

- Quick and easy installation, without tools
- · Large outlet capacity, maximum 15 OptiLine 50 wiring devices
- Lids can be finished with most floor materials
- Choice of opening direction of the lid
- Adequate fitting space for installation couplers
- Halogen-free products
- Load up to 10 000 N

Technical and Material data

PA6 (polyamide 6)	Density	1.13 g/cm ³			
(1.1.)	Linear expansion	70-100x10 ⁻⁶ m/m °C			
	Fire rating	UL94 V2 (3.2 mm)			
	Colour	Blue RAL 5003			
PA/ABS (polyamide/acrylo-	Density	1.12 g/cm ³			
nitrile butadiene styrene)	Linear expansion	70x10 ⁻⁶ m/m°C			
	Water absorption	0.9%			
	Volume resistivity	10 ¹⁴ Ω cm			
	Dielectric strength	19 kV/mm			
	Fire rating	UL 94 HB (halogen-free)			
	Colour	Grey RAL 7011			
		Dark grey RAL 7043			
PP (polypropylene)	Density	0.905 g/cm ³			
	Linear expansion	11x10 ⁻⁶ m/m °C			
	Fire rating	UL94 HB			
	Colour	Yellow			
Sheet steel	Specification	S 350 GD			
	Density	7.8 g/cm ³			
	Surface treatment	Zinc coated			
Stainless steel	Specification:	X5CrNi 18-10			
	Density:	7.8 g/cm ³			
Degree of protection	IP20				
Standards	The products comply EN 50085-2-2.	The products comply with EN 60670-23. Load according to EN 50085-2-2.			
	Swiss installation sta box only)	Swiss installation standard NIN 2010 (12 module floor outlet box only)			
	The products satisfy the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 93/68/EEC				
Temperature range	Operating temperatu	re from -25°C to +60°C			
Impact	2 J (IK07)				

Mounting instructions

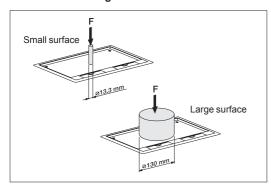
Mounting instructions are enclosed with the product. They are also available on Pl@net.				
Art. No. 20075554	Floor outlet box, 4 modules			
Art. No. 20075553	Floor outlet box, 8 modules			
Art. No. 20061314	Floor outlet box, 15 modules			
Art. No. 20063486	Screeded floor box			
Art. No. 20075524	Hollow core box			

Product Environmental Profile

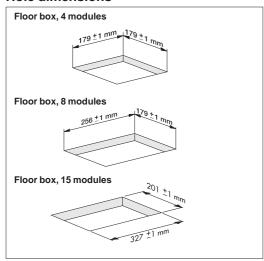
Product Environmental Profile documents are available on Pl@net.



Max. load according to EN 50085-2-2



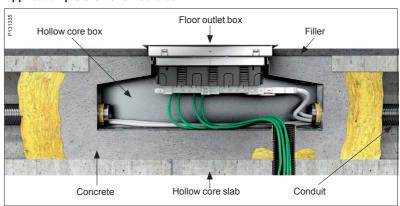
Hole dimensions



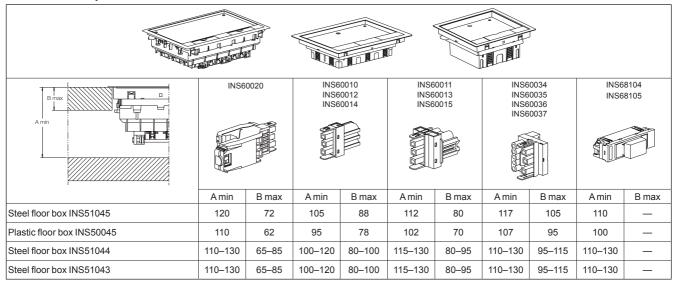
Max. load according to EN 50085-2-2

Plastic floor box 15 modules						
Small surface	Force (N)		Force (N)			
Without inlay	2500	With stainless steel inlay	3000			
Large surface	Force (N)		Force (N)			
Without inlay	3000	With stainless steel inlay	5000			
Metal floor box 4 mod	dules					
Small surface	Force (N)		Force (N)			
Without inlay	3000	With stainless steel inlay	3000			
Large surface	Force (N)		Force (N)			
Without inlay	10000	With stainless steel inlay	10000			
Metal floor box 8 mod	dules					
Small surface	Force (N)		Force (N)			
Without inlay	3000	With stainless steel inlay	3000			
Large surface	Force (N)		Force (N)			
Without inlay	10000	With stainless steel inlay	10000			
Metal floor box 15 mo	odules					
Small surface	Force (N)		Force (N)			
Without inlay	3000	With stainless steel inlay	3000			
Large surface	Force (N)		Force (N)			
Without inlay	5000	With stainless steel inlay	10000			

Application picture hollow core box



Installation depth





Fle	oor outlet boxes								
		Туре	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.		
		Plastic floor box							
P111414		Complete rectangular floor outlet box, including mounting frame, quick fixation and two cable exits. The outlet capacity is maximum fifteen 50x50 mm OptiLine 50 wiring devices. Cable exit capacity: 1850 mm², max. cable Ø 12 mm. The hinged lid can be installed in two positions and is easily removed. It can be fitted with an insert of floor material of up to 6 mm thickness. Material: PA/ABS, steel.							
	Carl Land	15 module box	Grey	75/222/348	1	3606485135656	INS50045		
		Metal floor boxes							
P130797		adjustable from 85 mm to	115 mm, in steps of mm ² , max cable Ø	mounting frame, quick fixation of 5 mm. The outlet capacity in 15 mm. The hinged lid can be so 15 mm thickness.	s maximum four 5	0x50 mm OptiLine 50 v	iring devices.		
	8	4 module box	_	81/199/199	1	3606480482489	INS51043		
P130547		adjustable from 85 mm to	115 mm, in steps of mm ² , max cable Ø	ling mounting frame, quick fi of 5 mm.The outlet capacity i 15 mm. The hinged lid can l to 15 mm thickness.	s maximum eight	50x50 mm OptiLine 50	wiring devices.		
	18 18	8 module box		81/199/276	1	3606480483042	INS51044		
P112322		maximum fifteen 50x50 m	m OptiLine 50 wiri	ling mounting frame, quick fi ng devices. Cable exit capa noved. It can be fitted with ar	city: 2490 mm², ma	ax. cable Ø 15 mm. The	hinged lid can		
		15 module box	_	86/222/348	1	3606485135663	INS51045		
Ac	ccessories								
Α.	0003301103	Screeded floor boxes							
P130548		sides, equipped with blank has an adjustable internal	c plates on three s height of betweer	screeded floors with minimur des. Suitable for both flush f 98 and 125 mm. When used nding radius of cabling during 125/302/405	loor trunking and t d in a thicker floor,	ube feeding. The scree adjustable supporters	ded floor box should be used.		
P130546		Screeded floor box	_	124/301/482	1	3606480483059	ISM50342		
P .		8 modules							
P119915		Screeded floor box 15 modules	_	100/338/524	1	3606485135687	ISM50340		
		Hollow core box							
P131349		conduit adaptors, four upv	vards, 2x3 sidewar fine tuning to the	he cavity of hollow core slab ys and six downwards. Equip finished floor level. The top or box.	oped with brackets	for rough height fixation	n 0-75 mm and		
		Hollow core box 8 modules	_	166/184/502	1	3606480483066	ISM50356		
9		Conduit adaptors	anduite 20 mm						
P131533		Conduit adaptor for two co Material: PP. Conduit adaptor 2x20 mm		58/58/32	10	3606480483073	ISM50370		
P131534		Conduit adaptor for condu		mm. Diameter choice by pu	unching out to right	t size.			
P13		Material: PP. Conduit adaptor 1x25, 32, 40 or 50 mm	Yellow	58/58/32	10	3606480483080	ISM50371		
		10 01 00 IIIII							



	Туре	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
	Adjustable supporter					
Like	Adjustable supporter, i with a thickness rangin Material: PP, PA6.		ljustment of the screeded flo n.	or box to the finis	shed floor level. To be use	ed for cast floo
	Supporter	Grey, black	111/111/63-255	4	3606480297977	ISM5034
	Front cover					
	Front cover intended to be cut to the desired le Material: PA/ABS.		pen compartments in the ou	tlet grid. The len	gth is 250 mm, but the pr	ofile may eas
	Front cover	Dark grey	250/50/13	10	3606480215292	INS5025
	Mounting plate					
	Blank mounting plate to Material: PC/ABS.	be used to enable f	uture extension of VDI outlet	s. To be snap-fitt	ed in the front opening.	
	Mounting plate	White Dark grey	50/20/50	1	3606485115368 3606485115375	INS6400 INS6400
	Lid infill, linoleum					
	Lid infill to be used in the metal floor box, a 9 mm Material: Linoleum.		oxes. Provided with self-adhenaterial is required.	esive tape under	neath. If the lid infill is to	be used in a
	For 4 module box	Grey	6/139/167	1	3606480031007	ISM5080
	For 8 module box	Grey	6/139/245	1	3606480031014	ISM5080
	For 15 module box	Grey	6/162/316	1	3606485135700	ISM508
		,				
		ne lid of floor outlet bo	oxes. Provided with a protect			
	Lid infill to be used in the self-adhesive tape und Material: Stainless stee	ne lid of floor outlet bo erneath. If the lid infil	l is to be used in a metal floo		ick extra spacer material	is required.
	Lid infill to be used in the self-adhesive tape und	ne lid of floor outlet bo erneath. If the lid infil		or box, a 9 mm th		is required.
3	Lid infill to be used in the self-adhesive tape und Material: Stainless stee	ne lid of floor outlet bo erneath. If the lid infil	l is to be used in a metal floo	or box, a 9 mm th	ick extra spacer material	is required.
	Lid infill to be used in the self-adhesive tape und Material: Stainless stee For 4 module box	ne lid of floor outlet bo erneath. If the lid infil	I is to be used in a metal floo 6/139/167	or box, a 9 mm th	ick extra spacer material 3606480025761	ISM508
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box	ne lid of floor outlet bo erneath. If the lid infil	6/139/167 6/139/245	or box, a 9 mm th	ick extra spacer material 3606480025761 3606480025761	ISM508
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 15 module box Swivel fixing	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — — — unted on either short	6/139/167 6/139/245 6/162/316 side of a floor outlet box. Int	or box, a 9 mm th	3606480025761 3606480025761 3606480025761 3606485135694	ISM508:
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 15 module box Swivel fixing Swivel fixings to be module	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — — — unted on either short	6/139/167 6/139/245 6/162/316 side of a floor outlet box. Int	or box, a 9 mm th	3606480025761 3606480025761 3606480025761 3606485135694	ISM5082 ISM5082 ISM5082
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 15 module box Swivel fixing Swivel fixings to be mowith a panel thickness Material: PA6, steel.	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — — unted on either short ranging from 23 mm	6/139/167 6/139/245 6/162/316 side of a floor outlet box. Into 53 mm.	1 1 1 ended for use as	3606480025761 3606480025761 3606485135694 additional fixing method	ISM508: ISM508: ISM508: in raised flo
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 15 module box Swivel fixing Swivel fixings to be mowith a panel thickness Material: PA6, steel. Swivel fixing Flexible conduit Flexible conduit (split to by using mounting tool	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — unted on either short ranging from 23 mm Blue	6/139/167 6/139/245 6/162/316 side of a floor outlet box. Into 53 mm.	or box, a 9 mm th	3606480025761 3606480025761 3606485135694 additional fixing method 3606480031052	ISM5082 ISM5082 ISM5082 ISM5082
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 15 module box Swivel fixing Swivel fixings to be moduith a panel thickness Material: PA6, steel. Swivel fixing Flexible conduit Flexible conduit (split to	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — unted on either short ranging from 23 mm Blue	6/139/167 6/139/245 6/162/316 side of a floor outlet box. Into 53 mm.	or box, a 9 mm th	3606480025761 3606480025761 3606485135694 additional fixing method 3606480031052	ISM5081 ISM5081 ISM5082 in raised floo
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 15 module box Swivel fixing Swivel fixings to be mowith a panel thickness Material: PA6, steel. Swivel fixing Flexible conduit Flexible conduit (split to by using mounting tool Material: PP.	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — unted on either short ranging from 23 mm Blue Jube), diameter 25 mr ISM50852.	I is to be used in a metal flood 6/139/167 6/139/245 6/162/316 side of a floor outlet box. Into 53 mm. 58/12/25 n, to be used for cable feeding	or box, a 9 mm th 1 1 1 ended for use as 2	3606480025761 3606480025761 3606485135694 additional fixing method 3606480031052	ISM5082 ISM5082 ISM5082 In raised flo ISM5082
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 15 module box Swivel fixing Swivel fixings to be mowith a panel thickness Material: PA6, steel. Swivel fixing Flexible conduit Flexible conduit (split to by using mounting tool Material: PP. Flexible conduit Mounting tool Mounting tool for instal	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — unted on either short ranging from 23 mm Blue ube), diameter 25 mm ISM50852. Grey metallic	I is to be used in a metal flood 6/139/167 6/139/245 6/162/316 side of a floor outlet box. Into 53 mm. 58/12/25 n, to be used for cable feeding	or box, a 9 mm th 1 1 1 ended for use as 2 g from floor outle 2	3606480025761 3606480025761 3606485135694 additional fixing method 3606480031052	ISM5081 ISM5081 ISM5082 in raised floo ISM5082
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 15 module box Swivel fixing Swivel fixings to be mowith a panel thickness Material: PA6, steel. Swivel fixing Flexible conduit Flexible conduit (split to by using mounting tool Material: PP. Flexible conduit Mounting tool	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — unted on either short ranging from 23 mm Blue ube), diameter 25 mm ISM50852. Grey metallic	6/139/167 6/139/245 6/162/316 side of a floor outlet box. Into 53 mm. 58/12/25 n, to be used for cable feedin	or box, a 9 mm th 1 1 1 ended for use as 2 g from floor outle 2	3606480025761 3606480025761 3606485135694 additional fixing method 3606480031052	ISM5081 ISM5081 ISM5082 in raised floo ISM5082
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 8 module box Swivel fixing Swivel fixing Swivel fixings to be mowith a panel thickness Material: PA6, steel. Swivel fixing Flexible conduit Flexible conduit (split to by using mounting tool Material: PP. Flexible conduit Mounting tool Mounting tool for instal Material: PP. Mounting tool	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — unted on either short ranging from 23 mm Blue ube), diameter 25 mm ISM50852. Grey metallic	I is to be used in a metal flood 6/139/167 6/139/245 6/162/316 side of a floor outlet box. Into 53 mm. 58/12/25 n, to be used for cable feedin Ø25/2000 mm split-tube flexible condu	or box, a 9 mm th 1 1 1 2 g from floor outle 2	3606480025761 3606480025761 3606480025761 3606485135694 additional fixing method 3606480031052 at box to desktop. Cables	ISM5082 ISM5082 ISM5082 In raised floo ISM5082 ISM5082
	Lid infill to be used in the self-adhesive tape und Material: Stainless steed For 4 module box For 8 module box For 8 module box Swivel fixing Swivel fixings to be mowith a panel thickness Material: PA6, steel. Swivel fixing Flexible conduit Flexible conduit (split to by using mounting tool Material: PP. Flexible conduit Mounting tool Mounting tool for instal Material: PP. Mounting tool Separation clip	ne lid of floor outlet be erneath. If the lid infilel, silicone rubber. — unted on either short ranging from 23 mm Blue Libe), diameter 25 mm ISM50852. Grey metallic lation of cables in 25	I is to be used in a metal flood 6/139/167 6/139/245 6/162/316 side of a floor outlet box. Into 53 mm. 58/12/25 n, to be used for cable feedin Ø25/2000 mm split-tube flexible condu 115/36/70 nduits, separating power and	or box, a 9 mm th 1 1 1 2 g from floor outle 2 its. 1	3606480025761 3606480025761 3606480025761 3606485135694 additional fixing method 3606480031052 at box to desktop. Cables 3606480150340	ISM5082 ISM5082 ISM5082 In raised flo ISM5082 ISM5082 ISM5082



Compatible OptiLine 45 steel trunking products

Dimensions A/B/C (mm) EAN code Ref. No. Colour Qty per package Underscreed floor trunking with two compartments

 $Floor\ trunking\ with\ two\ compartments\ and\ integrated\ separation\ wall,\ intended\ for\ embedded\ use\ in\ screeded\ floors,\ in\ the property of the p$ combination with screeded floor boxes of plastic or metal. Available in two heights, 28 and 38 mm. Material: Sheet steel, galvanized.

150x28 mm	_	28/150/2000	2 m	8428031087913	4260101
150x38 mm	_	38/150/2000	2 m	8428031087982	4260111
200x28 mm	_	28/200/2000	2 m	8428031087920	4260102
200x38 mm	_	38/200/2000	2 m	8428031087999	4260112

Underscreed floor trunking with three compartments

Floor trunking with three compartments and integrated separation walls, intended for embedded use in screeded floors, in combination with screeded floor boxes of plastic or metal. Available in two heights, 28 and 38 mm. Material: Sheet steel, galvanized.

250x28 mm	_	28/250/2000	2 m	8428031087968	4260106
250x38 mm	_	38/250/2000	2 m	8428031088033	4260116

Fixation clamp

Clamp intended to fix a 28 mm high floor trunking to the concrete floor and to hold the position at the screeded floor-box junction. Material: Sheet steel, galvanized.

For 150 mm	_	30/157/40	1	8428031147129	ISM50151
For 200 mm	_	30/257/40	1	8428031147136	ISM50152
For 250 mm	_	30/307/40	1	8428031147143	ISM50153

Same as above but for 38 mm high floor trunking. Material: Sheet steel, galvanized.

For 150 mm	_	40/157/40	1	8428031147167	ISM50156
For 200 mm	_	40/257/40	1	8428031147174	ISM50157
For 250 mm	_	40/307/40	1	8428031147181	ISM50158

Vertical corner with two compartments

Vertical corner with two compartments and an integrated separation wall. Intended to guide cables from vertical to horizontal direction. The bend of the corner is chamfered, allowing a proper bending radius of the cables. Material: Sheet steel, galvanized.

For 150x28 mm trunking	_	201/150/201	1	8428031096267	4260133
For 150x38 mm trunking	_	201/150/201	1	8428031096335	4260140
For 200x28 mm trunking	_	201/200/201	1	8428031096274	4260134
For 200x38 mm trunking	_	201/200/201	1	8428031096489	4260141

Vertical corner with three compartments

Vertical corner with three compartments and two integrated separation walls. Intended to guide cables from vertical to horizontal direction. The bend of the corner is chamfered, allowing a proper bending radius of the cables. Material: Sheet steel, galvanized.

For 250x28 mm trunking —	201/250/201	1	8428031096311	4260138
For 250x38 mm trunking —	201/250/201	1	8428031096526	4260145

Earthing kit

Kit including earth wire with flat pin connectors and earthing clamps. Intended to provide an earth connection between two metal floor trunking bodies, or other sheet metal products. Material: Spring steel, copper.

Earthing kit	Yellow/green	L = 200	10	3606480028519	ISM10953
_	_	L = 300	10	3606480028526	ISM10954















Compatible Thorsman UFB products

Dimensions A/B/C (mm) Colour Qty per EAN code Ref. No. package

Conduit adaptor

Adaptor for the connection of 1–4 conduits to the screeded floor box. The adaptor has four openings for \varnothing 50 mm (dimensions acc. to EN 60423) conduits. For smaller diameters, reduction sleeves can be used. They are easily pushed into the open ends of the adaptor. All entrances are provided with a knock-out opening on the inside to prevent unintentional leakage of concrete into the screeded box when the entrance is not in use. Material: PP.

UFB-AP	Yellow	55/40/257	10	7315885197756	5197 755
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Reduction sleeve

Reduction sleeve for the fitting of conduits smaller than Ø 50 mm in adaptor UFB-AP. The reduction sleeve is available for four different dimensions: Ø 16, Ø 20, Ø 32 and Ø 40 mm (dimensions acc. to EN 60423). The opening for the feeding conduit should be positioned at the bottom edge of the reduction sleeve, for a stable position of the conduit. Material: PP.

UFB-RM For conduits Ø 16 mm	Yellow	Ø50/39	10	7315885197824	5197 820
UFB-RM For conduits Ø 20 mm	Yellow	Ø50/39	10	7315880046820	5197 825
UFB-RM For conduits Ø 32 mm	Yellow	Ø50/39	10	7315885197831	5197 830
UFB-RM For conduits Ø 40 mm	Yellow	Ø50/39	10	7315880046837	5197 835

Floor trunking adaptor for 28 mm high trunking

Adaptor to be fitted to the side entrance of the screeded floor box for the connection of 28 mm high floor trunking to the box.

Material. Sileet Steel S 200 Jr.						
UFB-AP For 150x28 mm floor trunking	_	55/40/257	10	7332418017633	5197 761	
UFB-AP For 200x28 mm floor trunking	_	55/40/257	10	7332418017640	5197 762	
UFB-AP For 250x28 mm floor	_	55/40/282	10	7332418017657	5197 763	

Floor trunking adaptor for 38 mm high trunking

Adaptor to be fitted to the side entrance of the screeded floor box for the connection of 38 mm high floor trunking to the box.

Material: Sheet steel S 235 JR.						
UFB-AP For 150x38 mm floor trunking	_	55/40/257	10	7332418017664	5197 771	
UFB-AP For 200x38 mm floor trunking	_	55/40/257	10	7332418017671	5197 772	
UFB-AP For 250x38 mm floor trunking	_	55/40/282	10	7332418017688	5197 773	









