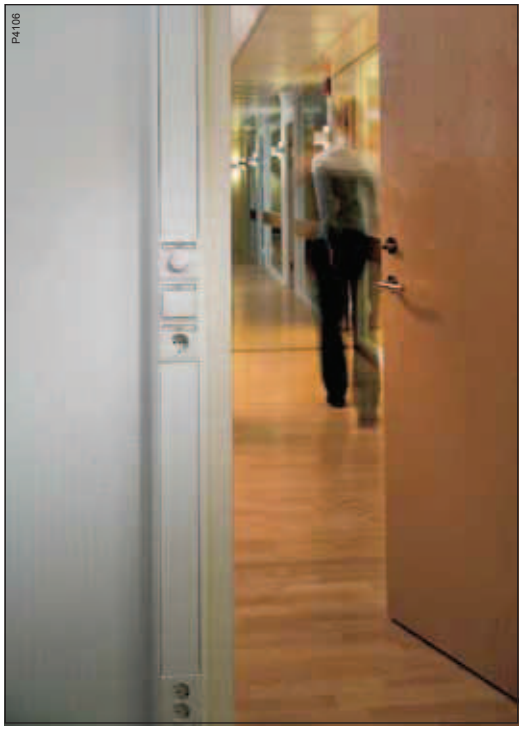
POL

POL
Presentation



Description

The Thorsman range of pre-wired and customized service poles POL is a multi purpose system for on-the-spot electrical services for power and communication. The poles are designed to bring power, data and telecommunications directly from the ceiling to the desk, and they are pre-assembled entirely to customer specifications.

The service poles are available in several versions;

- tension-mounted between floor and ceiling
- fixed to cable tray or ladder
- free-standing and movable
- mounted on the wall.

The compatibility with the Thorsman wiring device system CYB allows complete solutions for power and low voltage, telecom and data. Adjustments to standard outlets on the European market are easily made using MIB boxes.

The service poles are supplied in optional lengths up to 5 metres and in optional colours, pre-wired including cables and plugs, ready to be secured and connected to a so called service gate in the backbone of the building. Each individual pole is tested before delivery and provided with a unique serial number, thus providing possibilities to trace it back in the production line. Test report and wiring diagram follow each pole at delivery.

The poles are specified by means of the PC based planning and specifying aid PSC-NET.

There is also a number of pre-defined poles that need no specifying.

Performance

Electrical data	Rated voltage:	400 V
	Rated current:	16 A
Degree of protection	IP30	
Loads	Maximum horizontal load at the height 1000 mm:	400 N
	Maximum vertical load:	750 N
	*Note: Load values applicable to all poles except POL-*M.*	

Standards

PrEn 50085-2-4 .
SS 424 10 32:1989.

Patents & approvals

Approvals	Please see under each pole type.
Patent & protection of design	• Connection foot for POL-M4: the internal coupling and the distribution of power and, where appropriate, of data out to the service boxes has been granted Swedish patent No. 519 422.
	• Foot ISM20809: protection of design granted in EC countries.
	•Base profile for POL-M10, -M20, -T10, -T20: protection of design granted in Sweden, Finland, Denmark, Norway, Germany, Holland, Belgium and Luxemburg.

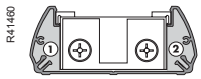
Material data

Aluminium	Specification	SS 4104, BS H9, DIN Al Si 0.5
	Density	2.7 g/cm^3
	Linear expansion	2.4x10^{-5}/°C
Cast iron	Density	7.3 g/cm^3
	Linear expansion	1.2x10^{-5}/°C
	Surface treatment	• Coated with clear varnish (POL-FM1) • Dip coated (POL-FM2)
Steel 1142	Specification	SS 1142
	Density	7.8 g/cm^3
	Linear expansion	1.2x10^{-5}/°C
Steel 1411	Specification	SS 1411
	Density	7.8 g/cm^3
Steel spring 1774-05	Specification	SS 1774-05
	Density	7.8 g/cm^3
	Surface treatment	Lubricated
Steel tubing 2394	Specification	DIN 2394
	Density	7.8 g/cm^3
Rubber	Specification	EPDM
	Other info	Halogen-free

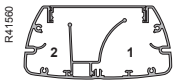
POL
Description

Cable separation
In order to obtain a 25 mm separation between power and low voltage cables the cables in the feeder part of the pole must be run according to the following:

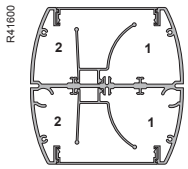
POL-W1



POL-M10, -T10



POL-M20, -T20



Flexible conduit for POL-M10/M20, T10/T20

Compartment 1
Power cables

Compartment 2
Low voltage cables

Material data, cont.

PA 6 (polyamide)	Density	1.14 g/cm^3
	Linear expansion	100x10^{-6}/°C
	Volume resistivity	>10^{15} Ω cm
	Water absorption	2.8%
	Dielectric strength	60 kV/mm
	Other info	Halogen-free
PP (polypropylene)	Density	0.905 g/cm^3
	Linear expansion	110x10^{-6} /°C
	Volume resistivity	10^{16} Ω cm
	Water absorption	0,07%
	Dielectric strength	30 kV/mm
	Other info	Halogen-free
PVC	Density	1.5 g/cm^3
	Linear expansion	60x10^{-6}/°C
	Volume resistivity	>10^{13} Ω cm
	Water absorption	<0.2%
	Dielectric strength	>20 kV/mm
PC/ABS	Density	1.14 g/cm^3
	Linear expansion	70x10^{-6}/°C
	Volume resistivity	>10^{13} Ω cm
	Water absorption	0.6%
	Dielectric strength	19 kV/mm
Polystyrene	Density	1.04 g/cm^3
	Other info	Halogen-free

Surface treatment

Anodizing	5–10 µm, natural
Powder coating	Epoxy-polyester mix or polyester, 50–100 µm

Colours and surface coatings

Service poles	Natural anodized or powder coated according to Thorsman Colour Choice.	
Front covers	Natural anodized or powder coated according to Thorsman Colour Choice. Lengths available for delivery: Maximum 2500 mm.	
Accessories	If nothing else is stated the following applies:	
	White	= NCS 0402-B91G
	Grey	= RAL 9007
	White textured	= KP 546-9216 ≈ RAL 9010
	Black textured	= KP 545-7069 ≈ RAL 9011

Operative data

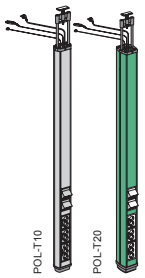
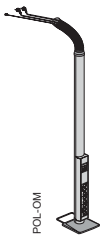
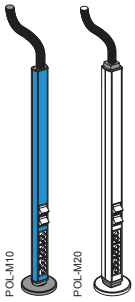
Suitable outdoors	No
Degree of protection	IP30
Electrical data	230/400V, 16 A

Classification acc. to PrEn 50085

Material	6.1.1 Metallic
Impact resistance	6.2.3 Medium impact
Temperature	6.3 Code 221 (= min. storage and transport temperature –25°C, min. installation and application temperature –15°C, max. application temperature +60°C)

POL
Range

Customized and pre-wired service poles

Type	Dimensions A/B/C (mm)	EAN code	Ref. No.
P101983 POL-O			
Customized and pre-wired service poles for installation of power and communication from the ceiling. To be specified in PSC-NET. All poles are CE-marked according to the Low Voltage Directive (LVD). Material: Aluminium (profiles, front cover).			
Tension-mounted between floor and ceiling, or fixed to cable tray/ladder			
Service poles to be tension-mounted between floor and ceiling or fixed to cable tray or ladder in the ceiling. Including floor fixing and all necessary accessories to fix the pole to the ceiling.			
POL-O With one installation box for wiring devices, accessible front opening 590 or 700 mm	Max. 3800*)/89/100 *) Including ceiling fixing	—	CMS9323**
L63280 L63290  POL-T10 POL-T20			
POL-T10 Wiring devices can be placed along the whole length of the pole.	Max. 5000/61/120	—	CMS9330**
POL-T20 Wiring devices can be placed along the whole length of the pole.	Max. 5000/120/117	—	CMS9331**
Free-standing and movable			
Free-standing and movable service pole. When using flexible conduit POL-FS in combination with foot ISM20808 or ISM20809, the pole can be moved within a radius ranging up to 1500 mm from the connection point in the ceiling. Due to its heavy weight the foot is supplied under separate packing.			
P67852  POL-OM			
POL-OM	*)/89/100 *) Length options of profile 2165, 2465 and 2915 mm + flexible conduit = max. 2000 mm	—	CMS9420**
L63260 L63270  POL-M10 POL-M20			
POL-M10	*)/61/120 *) Maximum length 5000 mm (profile = max. 3000 mm, flexible conduit = max. 2000 mm)	—	CMS9332**
POL-M20	*)/120/117 *) Maximum length 5000 mm (profile = max. 3000 mm, flexible conduit = max. 2000 mm)	—	CMS9333**

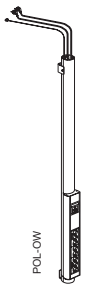
** The last three figures of the article identification number are dependent on the price interval of the pole.

POL
Range

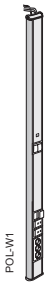
Customized and pre-wired service poles

Type	Dimensions A/B/C (mm)	EAN code	Ref. No.
Wall-mounted			
Service pole intended for wall mounting.			
POL-OW Wiring devices are placed in the lower part of the pole.	Max. 5000/89/100	—	CMS9421**
POL-W1 Wiring devices can be placed along the whole length of the pole, except above fastening screws.	Max. 5000/49/115	—	CMS9308**

P66705



L61390

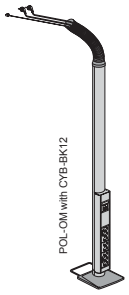


Pre-defined and pre-wired service poles

Free-standing and movable

P67852

Pre-wired, free-standing and movable service pole, unearthed. Equipped with access and outlet system type Thorsman CYB including connection cables and plugs. Foot to be ordered separately.
Pole length: 2173 mm + flexible conduit 2000. Box height: 590 mm.
Each box includes: • Schuko 250V/16A: two triple master outlets, one of which is marked DATA, and one double slave outlet.
• Communication outlets, see below.
The triple master outlets and the communication outlets are provided with label windows for easy marking.
Free cable lengths outside the flexible conduit: pair cable 6200 mm, 250V cable 2000 mm.
Material: Aluminium.

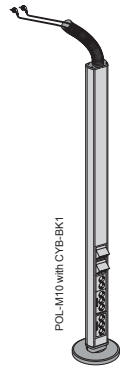


POL-OM With 1 x CYB-BK12 including 2 x Actassi Cat. 6 + 2 x blank plate in each box	Anodized White	2173+2000/89/100	1	7315880111160 7315880111153	5860 544 5860 546
POL-OM With 2 x CYB-BK1 including blank plates in each box	Anodized White	2173+2000/89/100	1	7315880111177 7315885860551	5860 548 5860 550

Free-standing and movable, mounted on a foot

P63135

Pre-wired, one-sided, free-standing service pole mounted on a foot. Unearthed. Equipped with access and outlet system type Thorsman CYB including connection cable and plug. NOTE! Foot POL-FM to be ordered separately.
Including: • Schuko 250V/16A: two triple master outlets, one of which is marked DATA, and one double slave outlet.
• Communication outlets, see below.
The triple master outlets and the communication outlets are provided with label windows for easy marking.
Free cable lengths: Pair cable 6400 mm, 250V cable 1800 mm.
Material: Aluminium.



POL-M10 With 2 x CYB-BK1 including 1 x Actassi blank plate and 1 x blank plate	White	2415+2000/61/120	1	7315885863736	5863 730
POL-M10 With 2 x CYB-BK1 including blank plates	Anodized White	2115+2000/61/120	1	7315880113010 7315880113027	5863 754 5863 756
POL-M10 With 1 x CYB-BK12 including 2 x Actassi Cat. 6 + 2 x blank plate	Anodized White	2115+2000/61/120	1	7315885863750 7315880113003	5863 750 5863 752

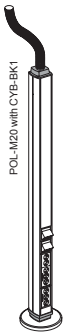
** The last three figures of the article identification number are dependent on the price interval of the pole.

POL
Range

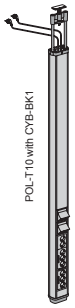
Pre-defined and pre-wired service poles

Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
Free-standing and movable, mounted on a foot					
Pre-wired, two-sided, free-standing service pole mounted on a foot. Unearthed. Equipped with Thorsman access and outlet system type CYB including connection cable and plug/modular plug. NOTE! Foot POL-FM to be ordered separately. Including, on each side: • Schuko 250V/16A: two triple master outlets, one of which is marked DATA, and one double slave outlet. • Communication outlets, see below. The triple master outlets and the communication outlets are provided with label windows for easy marking. Free cable lengths: pair cable 6400 mm, 250V cable 2100 mm. Material: Aluminium.					
POL-M20 With 1 x CYB-BK12 including 2 x Actassi Cat. 6 + 2 x blank plate on each side	Anodized White	2150+2000/120/117	1	7315885863835 7315880113065	5863 830 5863 832
Tension-mounted between floor and ceiling					
Pre-wired service pole, for tension-mounting between floor and ceiling. Unearthed. Equipped with Thorsman access and outlet system type CYB including connection cable and plug/modular plug. Including: • Schuko 250V/16A: two triple master outlets, one of which is marked DATA, and one double slave outlet. • Communication outlets, see below. The triple master outlets and the communication outlets are provided with label windows for easy marking. Free cable lengths: Pair cable 7700 mm, 250V cable 3400 mm. Material: Aluminium.					
POL-T10 With 1 x CYB-BK12 including 2 x Actassi Cat. 6 + 2 x blank plate	Anodized White	2870–3270/61/120	1	7315880112891 7315880112907	5863 575 5863 576
Pre-wired, two-sided service pole for tension-mounting between floor and ceiling. Unearthed. Equipped with Thorsman access and outlet system type CYB including connection cable and plug/modular plug. Including, on each side: • Schuko 250V/16A: two triple master outlets, one of which is marked DATA, and one double slave outlet. • Communication outlets, see below. The triple master outlets and the communication outlets are provided with label windows for easy marking. Free cable lengths: Pair cable 7700 mm, 250V cable 3400 mm. Material: Aluminium.					
POL-T20 With 1 x CYB-BK12 including 2 x Actassi Cat. 6 + 2 x blank plate on each side	Anodized White	2870–3270/120/117	1	7315885863682 7315880112938	5863 680 5863 681

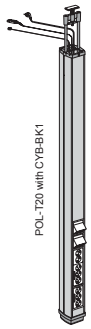
P81196



P63136



P81197



Empty service poles

Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
Tension-mounted between floor and ceiling					
Empty service pole for tension-mounting between floor and ceiling. Unearthed. Supplied without wiring devices and cables. Material: Aluminium.					
POL-T10 One-sided	White Anodized	3170–3570/61/120	1	7315885863576 7315880105404	5863 572 5863 573
POL-T10 One-sided	White Anodized	2870–3270/61/120	1	7315880100737 7315880105411	5863 502 5863 503
POL-T10 One-sided	White Anodized	2670–3070/61/120	1	7315885863552 7315880105428	5863 552 5863 554

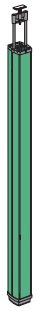
L65890

POL
Range

Empty service poles

Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
Tension-mounted between floor and ceiling					
Empty service pole for tension-mounting between floor and ceiling. Unearthed. Supplied without wiring devices and cables. Material: Aluminium.					
POL-T20 Two-sided	Anodized	3170–3570/120/117	1	7315885863675	5863 670
POL-T20 Two-sided	Anodized	2870–3270/120/117	1	7315880105466	5863 602
POL-T20 Two-sided	Anodized	2670–3070/120/117	1	7315880105473	5863 652

L67430

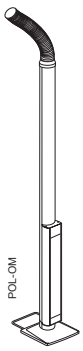


P93564

Empty service pole for tension-mounting between floor and ceiling. With one installation box for wiring devices, accessible front opening 700 mm. Adjustability of ceiling fixing 400 mm. Unearthed. Supplied without wiring devices and cables. Material: Aluminium.					
POL-O With one box	Anodized	2600–3000/89/100	1	7332418018241	5867 300
POL-O With one box	Anodized	3400–3800/89/100	1	7332418018289	5867 320

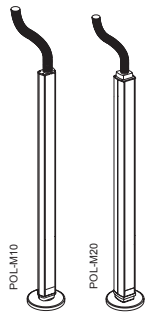
Free-standing and movable					
Empty, free-standing and movable service pole. Unearthed. Supplied without wiring devices and cables. Foot to be ordered separately. Material: Aluminium.					
POL-OM	Anodized	2465+2000/89/100	1	7315885863057	5863 050

P80504



Free-standing and movable					
Empty, free-standing and movable service pole. Unearthed. Supplied without wiring devices and cables. Foot to be ordered separately. Material: Aluminium.					
POL-M10 One-sided	Anodized	2415+2000/61/120	1	7315880112983	5863 744
POL-M20 Two-sided	Anodized	2150+2000/120/117	1	7315885863828	5863 820

P80507
P80508

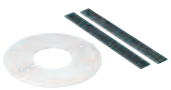
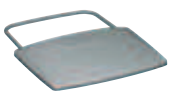
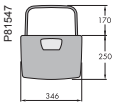


POL
Range

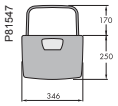
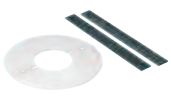
Accessories for POL-O

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
	Floor fixing plate					
P94375	Fixing plate to fix tension-mounted poles to the floor by screws. Fixed to the pole by pegs. From the OptiLine range. Material: Steel, electroplated.					
	Floor fixing plate	—	13/49/60	1	3606480567438	ISM20828
	Ceiling frame					
P81655	Ceiling frame to cover the edges of a hole in a false ceiling. Self-sticking. Suitable for POL-O. Material: Polystyrene.					
	POL-CF6	White	1/Ø115	1	7315885865273	5865 270

Accessories for POL-OM

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
	Ceiling frame					
P81655	Ceiling frame to cover the edges of a hole in a false ceiling. Self-sticking. Material: Polystyrene.					
	POL-CF6	White	1/Ø115	1	7315885865273	5865 270
P86527	Ceiling frame intended to lead flexible conduit Ø55 mm through false ceiling. To be mounted in circular hole, Ø125 mm, 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 Ø125 mm. From the OptiLine range. Material: PC/ABS.					
	Ceiling frame	White RAL 9010	89/Ø161	1	3606480030628	ISM20812
P81619 	Ceiling frame including fixing material, intended to cover hole when leading Ø55 mm flexible conduit through false ceiling and to fix flexible conduit. Material: Steel 1142.					
	POL-TG6	White	40/Ø140	1	7315880060482	5866 295
	Ceiling fixing					
P86526	Ceiling fixing intended to connect flexible conduit Ø55 mm to ceiling or wall. Fixings not included. From the OptiLine range. Material: Aluminium, powder coated.					
	Ceiling fixing	White RAL 9010	50/156/90	1	3606480030666	ISM20816
	Cable tray fixing					
P86524	Cable tray fixing including fixing material, intended to connect flexible conduit Ø55 mm to cable tray/mesh tray. Gripping around the tray. From the OptiLine range. Material: Steel, powder coated.					
	Cable tray fixing	White RAL 9010	100/15/70	1	3606480030635	ISM20813
	Busbar fixing					
P94503	Busbar fixing for Ø55 mm flexible conduits, intended to connect the conduit to busbar trunking. From the OptiLine range. Material: Steel, powder coated.					
	Busbar fixing	White RAL 9010	105/90/70	1	3606480030659	ISM20815
	Foot					
P86529	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. From the OptiLine range. Material: Cast iron, painted.					
	Foot, round	Grey	29/Ø317	1	3606480030581	ISM20808
P86528 	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. From the OptiLine range. Material: Cast iron, painted. 					
	Foot, rectangular	Grey	33/250/346	1	3606480030598	ISM20809
	Adaptor					
P81629	Adaptor for connection of Ø55 mm flexible conduit to movable poles POL-OM. Material: Aluminium, powder coated.					
	POL-AF1	White Grey	40/Ø73.5	1	7315880110705 7315880110712	5865 561 5865 562

Components and accessories for POL-M10/M20 and POL-T10/T20

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
	Cable tray fixing					
P86524	Cable tray fixing including fixing material, intended to connect flexible conduit Ø55 mm to cable tray/mesh tray. Gripping around the tray. From the OptiLine range. Material: Steel, powder coated.					
	Cable tray fixing	White RAL 9010	100/15/70	1	3606480030635	ISM20813
	Busbar fixing					
P94503	Busbar fixing for Ø55 mm flexible conduits, intended to connect the conduit to busbar trunking. From the OptiLine range. Material: Steel, powder coated.					
	Busbar fixing	White RAL 9010	105/90/70	1	3606480030659	ISM20815
	Floor fixing plate					
P94375	Fixing plate to fix tension-mounted poles to the floor by screws. Fixed to the pole by pegs. From the OptiLine range. Material: Steel, electroplated.					
	Floor fixing plate	—	13/49/60	1	3606480567438	ISM20828
	Foot					
P86529	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. From the OptiLine range. Material: Cast iron, painted.					
	Foot, round	Grey	29/Ø317	1	3606480030581	ISM20808
P86528	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. From the OptiLine range. Material: Cast iron, painted. 					
	Foot, rectangular	Grey	33/250/346	1	3606480030598	ISM20809
	Ceiling fixing					
P86526	Ceiling fixing intended to connect flexible conduit Ø55 mm to ceiling or wall. Fixings not included. From the OptiLine range. Material: Aluminium, powder coated.					
	Ceiling fixing	White RAL 9010	50/156/90	1	3606480030666	ISM20816
	Ceiling frame					
	Ceiling frame for base profile for POL-M10/T10 and POL-M20/T20 respectively. Covers the edge of the hole in a false celiling. Self-sticking. Only for tension-mounted poles. Material: Polystyrene.					
P81646	POL-CF2 For POL-M10/T10	White	1/111/170	1	7315885865259	5865 250
P81647	POL-CF3 For POL-M20/T20	White	1/170/167	1	7315880096870	5865 255
P86527	Ceiling frame intended to lead flexible conduit Ø55 mm through false ceiling. To be mounted in circular hole, Ø125 mm, 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 Ø125 mm. From the OptiLine range. Material: PC/ABS.					
	Ceiling frame	White RAL 9010	89/Ø161	1	3606480030628	ISM20812
P81619 	Ceiling frame including fixing material, intended to cover hole when leading Ø55 mm flexible conduit through false ceiling and to fix flexible conduit. Only for movable poles. Material: Steel 1142.					
	POL-TG6	White	40/Ø140	1	7315880060482	5866 295

POL
Range

Accessories for POL-OW

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
	Wall brackets					
P72952	Wall bracket that can be mounted anywhere along the pole, to fix the pole to the wall. Distance between wall and pole approx. 7.5 mm. Material: Steel 1147.					
	POL-VF2	White	40/46/69	1	7315880110781	5866 002
	Ceiling frame					
P81616	Ceiling frame to cover the edges of a hole in a false ceiling. Self-sticking. Material: Polystyrene.					
	POL-CF7	White	1/97/115	1	7315880110729	5865 275
	Ceiling fixing					
P86526	Ceiling fixing intended to connect flexible conduit Ø55 mm to ceiling or wall. Fixings not included. From the OptiLine range. Material: Aluminium, powder coated.					
	Ceiling fixing	White RAL 9010	50/156/90	1	3606480030666	ISM20816
	Adaptor					
P81629	Adaptor for connection of Ø55 mm flexible conduit to service poles POL-OW. Material: Aluminium, powder coated.					
	POL-AF1	White Grey	40/Ø73.5	1	7315880110705 7315880110712	5865 561 5865 562

Components and accessories for POL-W1

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
	Base profile for wall mounting					
P85088	Base profile, length 2700 mm. Punched holes in the back to simplify mounting. With internal screw rail for earth connection. To be used with wiring devices type CYB or CAN, or, for devices with a c/c 60 distance, with installation box type MIB. Material: Aluminium, natural anodized or powder coated.					
	POL-W1	Anodized White	2700/49/115	2	7315885860100 7315880079712	5860 100 5860 101
	Stop end					
P81610	Stop end intended to shut the lower end of base profile POL-W1. Material: Aluminium.					
	POL-ES1	White Grey	14/49/115	1	7315885865433 7315880079736	5865 430 5865 431
	Collar					
P81611	Collar intended to shut the upper end of base profile POL-W1. The opening for cable outlet is adapted to feeder profile FED-W1. Material: Aluminium.					
	POL-CR1	White Grey	14/49/115	1	7315885865709 7315880079750	5865 700 5865 701
	Ceiling frame					
P81612	Ceiling frame intended for use when POL-W1 is led through a false ceiling, to cover the edges of the hole. Material: Polystyrene.					
	POL-CF1	White	1/74/160	1	7315885865242	5865 240
	Cable holder					
P85098	Cable holder to divide the base profile POL-W1 into three compartments. To be snap-fitted into the base profile. Material: PC/ABS.					
	TTP-CH2	Greyish-black	30/17/88	10	7315880079774	5871 105
	Cable retainer					
P82563	Clamp intended to hold cables in place in POL-W1. Material: PA.					
	TTM-KL42	Black	12/42/14	10	7315880079668	5401 615

Other accessories

P81654

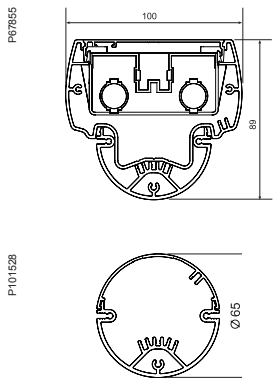
P85100

Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
Adaptor					
Adaptor for connection of Ø55 mm flexible conduit to base profile and cover Ø65 mm. Material: Aluminium, powder coated.					
POL-AF	Grey White	40/Ø73.5	1	7315880107361 7315885865563	5865 559 5865 560
Partition profile					
Partition profile of halogen-free material with two partition walls. Mounted in internal fixing rails of base profiles. Material: ABS.					
TTP-PP	White	500/49/50	25	7315885871038	5871 030

POL
Technical description

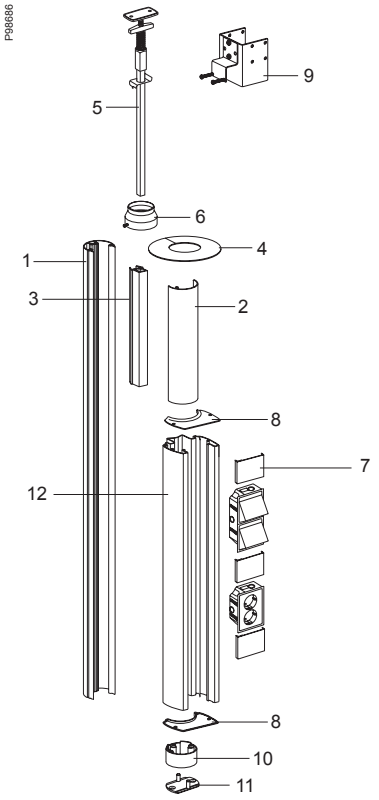
POL-O

Design and dimensions



Length options, mm	With ceiling fixing: 2200-2600, 2600-3000, 3000-3400 or 3400-3800
	Without ceiling fixing: 2020, 2420, 2820, 3220
Installation box height	Standard height 590 or 700 mm
	Optional free heights 100–1000 mm
Approvals	SEMKO, FIMKO, NEMKO

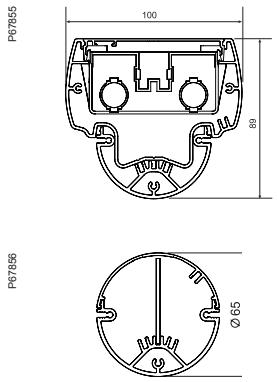
Exploded view



1. Base profile
2. Cover
3. Guide profile for ceiliing fixing
4. Ceiling frame POL-CF6
5. Ceiling fixing
6. Adaptor POL-AF1
7. Front cover
8. Stop end
9. Cable tray fixing
10. Floor fixing
11. Fixing plate
12. Service box profile

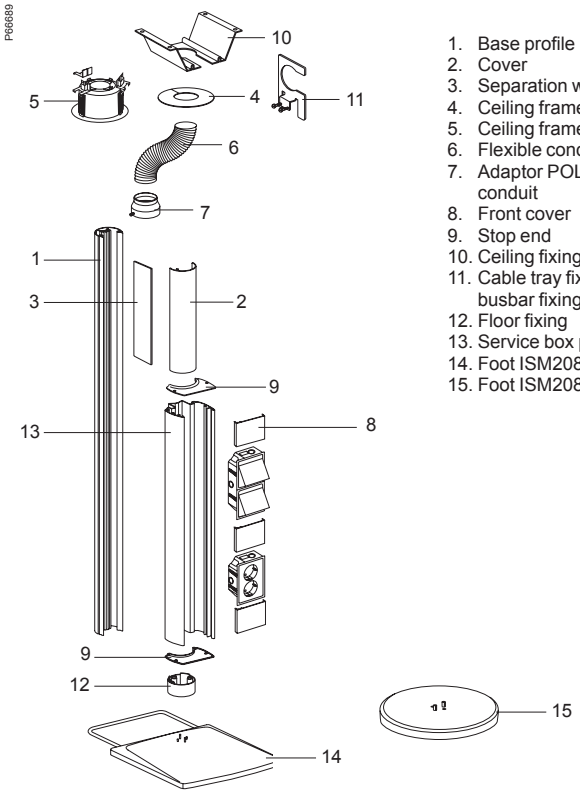
POL-OM

Design and dimensions



Length options, mm	2165, 2465 or 2915
Installation box height	Standard height 590 or 700 mm
	Optional free heights 100–1000 mm
Approvals	SEMKO, FIMKO, NEMKO

Exploded view

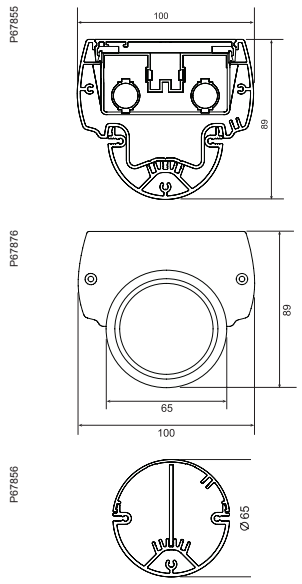


1. Base profile
2. Cover
3. Separation wall
4. Ceiling frame POL-CF6
5. Ceiling frame ISM20812
6. Flexible conduit Ø55 mm
7. Adaptor POL-AF1 for flexible conduit
8. Front cover
9. Stop end
10. Ceiling fixing ISM20816
11. Cable tray fixing ISM20813 or busbar fixing ISM20815
12. Floor fixing
13. Service box profile
14. Foot ISM20809
15. Foot ISM20808

POL
Technical description

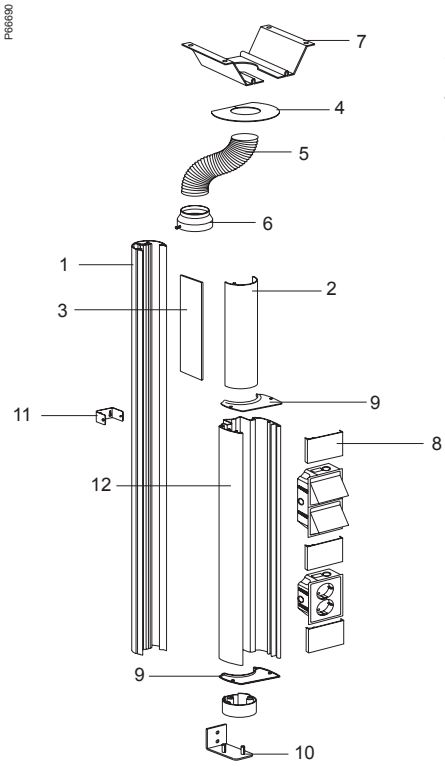
POL-OW

Design and dimensions



Maximum length	5 m
Length of flexible conduit	From 300 to 2000 mm
Installation box height	Standard height 590 or 700 mm
	Optional free heights 100–1000 mm
Approvals	SEMKO, FIMKO, NEMKO

Exploded view

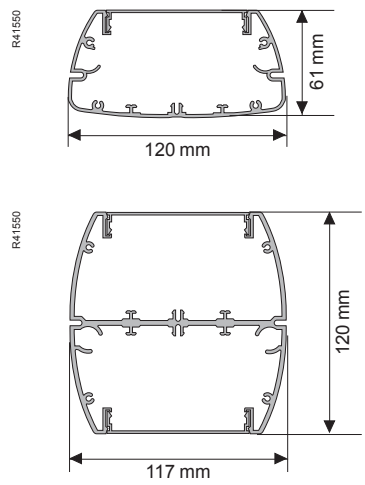


1. Base profile, back
2. Cover
3. Separation wall
4. Ceiling frame POL-CF7
5. Flexible conduit Ø55 mm
6. Adaptor POL-AF1 for flexible conduit
7. Ceiling fixing ISM20816
8. Front cover
9. Stop end
10. Wall bracket, angled
11. Wall bracket POL-VF2
12. Service box profile

POL
Technical description

POL-M10/M20

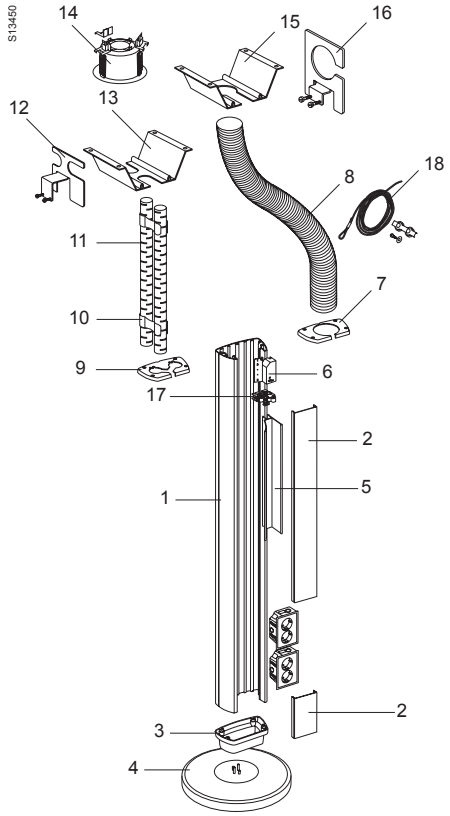
Design and dimensions



Maximum length	M10 = 3090 mm M20 = 3125 mm
Approvals	SEMKO

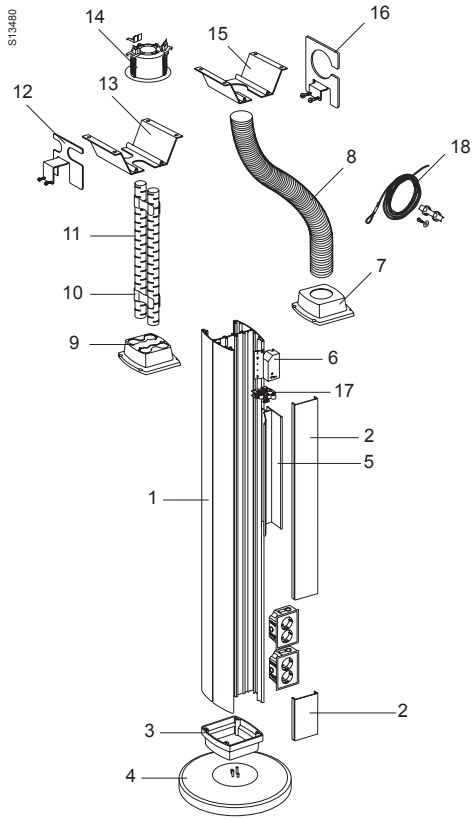
Exploded view

POL-M10



1. Base profile
2. Front cover
3. Floor fixing
4. Movable foot ISM20808
5. Partition profile TTP-PP
6. Holder for terminal block
7. Stop end
8. Flexible conduit Ø55 mm
9. Stop end
10. Clip
11. Flexible conduit Ø25 mm
12. Cable tray fixing
13. Ceiling fixing
14. Ceiling frame ISM20812
15. Ceiling fixing ISM20816
16. Cable tray fixing ISM20813 or busbar fixing ISM20815
17. Strain relief
18. Stay wire

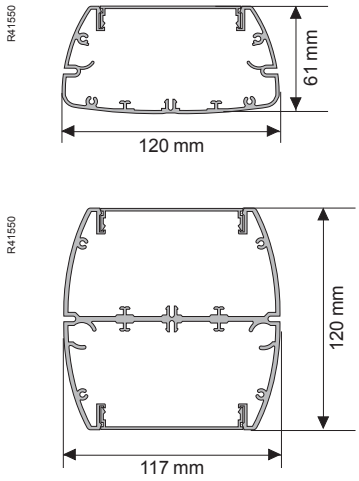
POL-M20



POL
Technical description

POL-T10/T20

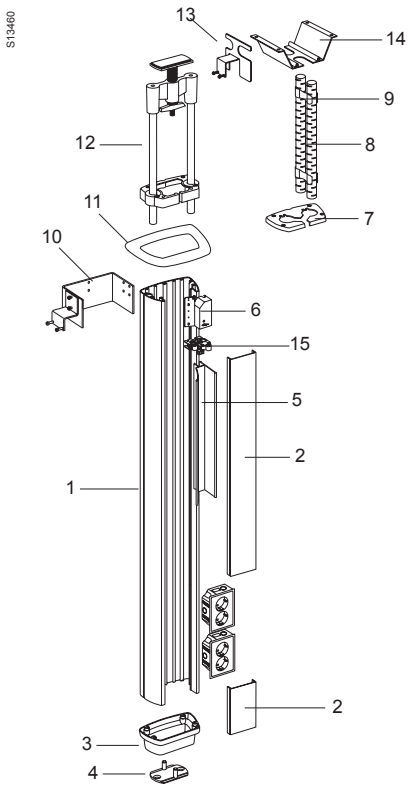
Design and dimensions



Maximum length	5 m
Approvals	SEMKO

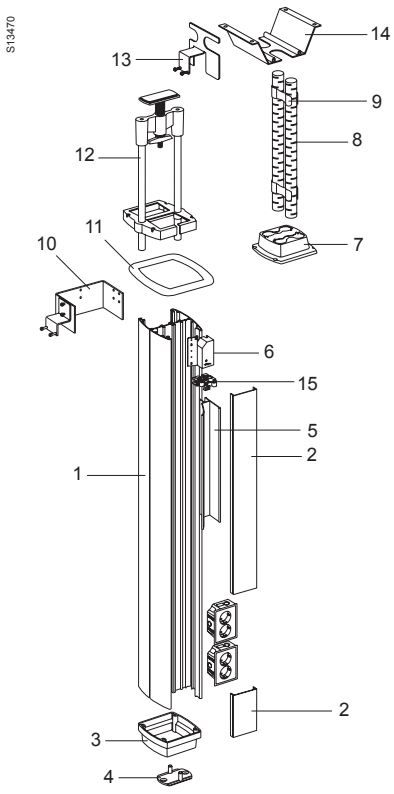
Exploded view

POL-T10



1. Base profile
2. Front cover
3. Floor fixing
4. Fixing plate
5. Partition profile TTP-PP
6. Holder for terminal block
7. Stop end
8. Flexible conduit Ø25 mm
9. Clip
10. Cable tray fixing
11. Ceiling frame POL-CF2, -CF3
12. Ceiling fixing
13. Cable tray fixing
14. Ceiling fixing
15. Strain relief

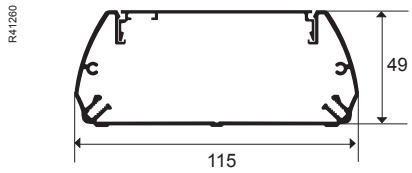
POL-T20



POL
Technical description

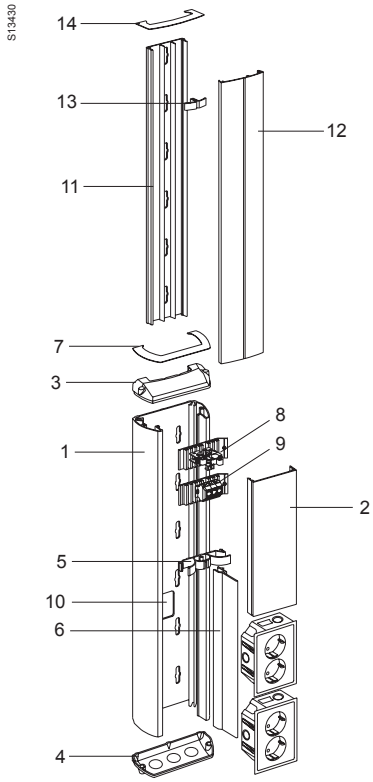
POL-W1

Design and dimensions



Maximum length	5 m
Approvals	SEMKO

Exploded view



Service pole items
1. Base profile POL-W1
2. Front cover
3. Collar POL-CR1
4. Stop end POL-ES1
5. Cable holder TTP-CH2
6. Cable shelf TTI-KH42
7. Ceiling frame POL-CF1
8. Strain relief
9. Terminal block
10. Hole for incoming cables (optional)

Feeder part items
11. Feeder profile, base part
12. Feeder profile, cover
13. Cable holder TTM-KL42
14. Ceiling frame

Cable capacity

Comp.	Max Ø mm	Cross section area mm²	Cable capacity*) mm² 40%	50%	60%
POL-T10, -M10					
1	49	5303	2121	2651	3182
With partition profile					
1	23	1210	484	605	726
2	31	1877	751	938	1126
3	36	1971	788	985	1182
With CAN, MIB and CYB boxes, 44 mm deep (external measure)					
1	16	2090	836	1045	1254
Ceiling fixing					
1	46	3279	1311	1639	1967
Flexible conduit					
1 (2x)	23	415	166	208	249

Comp.	Max Ø mm	Cross section area mm²	Cable capacity*) mm² 40%	50%	60%
POL-T20, -M20					
1	50	5622	2249	2811	3373
2	50	5320	2128	2660	3192
With partition profile					
1	32	1374	550	687	824
2	30	1735	694	867	1041
3	41	2187	875	1093	1312
4	29	1220	488	610	732
5	30	1735	694	867	1041
6	39	2033	813	1016	1220
With CAN, MIB and CYB boxes, 44 mm deep (external measure)					
1	21	2439	975	1219	1463
2	17	2131	852	1065	1278
Ceiling fixing (POL-T20)					
1 (2x)	46	7096	2838	3548	4257
Flexible conduit					
1 (2x)	23	415	166	208	249

Comp.	Max Ø mm	Cross section area mm²	Cable capacity*) mm² 40%	50%	60%
POL-O, -OM, -OW					
1	40	1793	717	896	1076
2	22	870	348	435	522
3	20	840	336	420	504
With CAN, MIB and CYB boxes, 44 mm deep (external measure)					
1	22	1856	724	928	1114
With CYB boxes, 32 mm deep (external measure)					
1	33	2614	1046	1307	1568

Comp.	Max Ø mm	Cross section area mm²	Cable capacity*) mm² 40%	50%	60%
Flexible conduit Ø25					
1	23	415	166	208	249
Flexible conduit Ø20					
1	18	254	102	127	152

Comp.	Max Ø mm	Cross section area mm²	Cable capacity*) mm² 40%	50%	60%
POL-W1					
1	44	4283	1713	2141	2570
With cable holder TTP-CH2					
1, 3	22	160	64	80	96
2	25	288	115	144	173
4	20	103	41	52	62
With cable holder TTP-CH2 and cable shelf TTI-KH42					
1, 3	22	160	64	80	96
2	25	125	50	63	75
4	18	172	69	86	103
5	8	126	50	63	76
With CAN, MIB and CYB boxes, 44 mm deep (external measure)					
1, 2	12	519	151	314	376
With CYB boxes, 32 mm deep (external measure)					
1	13	2037	815	1018	1222

*) We recommend a 40% utilization of the cable capacity.

Cross section area, mm²

Round cable Ø mm	Number of cables 1	2	3	4	5	6	7	8	9	10
3	7.1	14.2	21.3	28.4	35.5	42.6	94.7	56.8	63.9	71.0
4	12.6	25.2	37.8	50.4	63.0	75.6	88.2	101	113	126
5	19.6	39.2	58.8	78.4	98.0	118	137	157	176	196
6	28.3	56.6	84.9	113	142	170	198	226	255	283
7	38.5	77.0	116	154	193	231	270	308	347	385
8	50.0	100	150	200	250	300	350	400	450	500
9	63.7	127	191	255	319	382	446	510	573	637
10	78.5	157	236	314	393	471	550	628	707	785
11	95	190	285	380	476	570	665	760	855	950
12	113	226	339	452	565	678	791	904	1017	1130
13	133	266	399	532	665	798	931	1064	1197	1330
14	154	308	462	616	770	924	1078	1232	1386	1540
15	177	354	531	708	885	1062	1239	1416	1593	1770
16	201	402	603	804	1005	1206	1407	1608	1809	2010
17	227	454	681	908	1135	1362	1589	1816	2043	2270
18	255	510	765	1020	1275	1530	1785	2040	2295	2550
19	284	568	852	1136	1420	1704	1988	2272	2556	2840
20	315	630	945	1260	1575	1890	2205	2520	2835	3150
Oval cable mm										
2 x 3	5.2	10.4	15.6	20.8	26	31.2	36.4	41.6	46.8	52
2 x 5	9.2	18.4	27.6	36.8	46	55.2	64.4	73.6	82.8	92
3 x 6	16.1	32.2	48.3	64.4	80.5	96.6	112.7	128.8	144.9	161
4 x 7	24.6	49.2	73.8	98.4	123	147.6	172.2	196.8	221.4	246