

19" COMPACT RACK

by knürr

[www.knuerr-smaract.com](http://www.knuerr-smaract.com)

smaract®

**Network and server rack**  
**Compact 19" technology construction**  
**Passive and active components**



**knürr**  
environments for electronics

# Innovation today: smaract®



The Knürr **smaract®** Compact Rack is not just a further development of the LAN racks that we already know and that have been proven in use for some time now; it is, in fact, more of a specific response to the requirement for decentralized networking in the company:

**smaract®** stands for an innovative and practical total concept with extremely low spatial demands. High-grade flexibility and especially high-performance!

At the same time it is also integration-enabled, can be expanded at any time and is rich in impressive detailed solutions.

In brief: An ideal 19" platform for compact construction in various models that meet IP and EMC requirements.

## Features

- Not a single cubic centimetre is wasted with the smaract® Compact Rack. The innovative frame concept with triangular extrusions keeps weight low and stability high.
- The patented mounting hole rails in the 19" extrusion ensure installed active and passive components can be quickly and easily positioned.
- The smaract doors and side covers can be opened with an angle of over 180° and the side covers can be removed in seconds with the special system used.
- The smaract 19" Compact Rack is available in EMC and IP versions. Special attention was paid during the development phase to ensuring that this server and network rack remains constantly upgradeable to IP or EMC standard.
- A cost-effective solution can also be supplied in a combined IP-EMC version.

## Advantages

- Access from all sides is a central element of the rack's design. Massive time savings achieved with system integration and component maintenance.
- smaract® Compact Rack can be modularly set up and stacked, and is therefore predestined for system integration. The new 900 mm depth in the stacked version makes the smaract especially popular with Internet solution providers.
- The central locking guarantees controlled access. Additionally, the side covers can only be removed when the front doors have been opened. Special lock systems, e.g. with chip card reader or keypad can also be selected on request.
- The compact 19" rack is available in 9 U, 15 U and 21 U versions, and in sizes 12 U (home office) and 18 U. The 900 mm installation depth is available for server applications.



Innovative frame concept:  
Low weight – high stability

# smaract® – At a Glance

Knürr supplies everything from one single source – from complete mechanical accessories, power supplies,

fan technology and IPCs, right through to complete rack monitoring systems. smaract® – The Solution Platform.

- System-oriented consultation
- Planning and prototyping
- Thermal management
- Cable management
- System integration
- Function tests
- Test procedures
- High production capacity
- Short delivery times
- Delivery also made to your customers
- Hotline
- Certification in accordance with DIN EN ISO 9001



Lock systems for various requirements



Can be upgraded to EMC and IP standard



Power distribution and ventilation



Innovative hinge technology for rapid door removal



Accessible from all sides

## Design with **iF Class**

Function simply isn't everything! The Knürr smaract® Compact Rack sets new standards in design matters. The basic purpose of the design con-

cept is to translate the extended technical value creation into an appropriate but unobtrusive overall presence. This new smaract®

Compact Rack, developed in cooperation with designafairs, displays its exceptional technical features with a certain nonchalance and simplicity.

# Technical data

## smaract® – 19" Compact Rack, in accordance with IEC 297

- Material
  - Extruded aluminium
  - Corner piece, die-cast aluminium
  - Sheet steel covers
  - Doors: sheet steel or with single safety glass panel, opening angle, over 180°
- 19" components in accordance with IEC 297-3
  - Height: 9 U to 24 U
  - 1 U = 44.45 mm
  - Width: 482.6 mm (19")
- Versions
  - IP 20
  - IP 54
  - EMC
- Space solution
  - 82% of the basic surface can be used as space for installation and cable routing
- Configuration
  - Stationary, on levelling feet
  - Mobile on castors with snib
- Finish
  - Basic rack, polished
  - Covers, powder-coated texture, RAL 7035 light-grey
- Static load rating
  - 2,000 N with stationary version

- How supplied
  - Fully assembled
- Tests according to version
  - Safety in accordance with EN 50298 and EN 60950
  - Protective conductor/earth in accordance with DIN VDE 0701-1
  - Vibration test in acc. with MIL-STD 810 E
  - Vibration and shock test in acc. with DIN EN 300019-2-2
  - IP test in accordance with DIN EN 60529
  - EMC shielding attenuation in acc. with IEEE-STD-299 and VG 95 373 part 15 (30 MHz - 1 GHz)
  - Plastic components in accordance with UL 94-V0

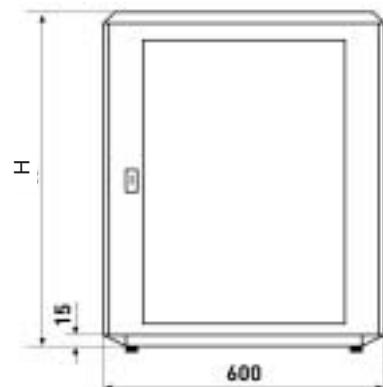
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## smaract 19" Compact Rack With glass door

- For components in acc. with IEC 297-3
- Access from all sides, removable covers
- Flexible assembly of the components using T-slot (also optional with mounting holes)
- Cable entry via rear panel (also optionally via top cover/bottom cover)
- Heat loss discharge via own convection or with fan unit on the rear panel (accessory)
- Door opening angle, 180°

### ■ Jumpering space

Front, 110 mm

### ■ Load rating

2000 N static

### ■ Protection rating

IP 20 (upgradeable to IP 54)

### ■ Material / Finish

- Basic rack, extruded aluminium, polished
- Corner piece, die-cast aluminium, polished
- Covers, sheet steel, powder-coated texture
- Glass infill front door, single safety glass panel

### ■ Colour

RAL 7035 light-grey

### ■ Supply schedule

- 1 Basic rack
- 2 Side panels, closed, both sides, hinged
- 1 Cover, closed
- 1 Glass front door
- 1 Rear door with cable entry, lockable, prepared for ventilation unit
- 2 19" Aluminium vertical extrusions, at the front, with T-slot incl. increment slide or 19" sheet steel vertical extrusion, front, with mounting holes (see table)
- 1 Earthing set
- 4 Levelling feet

### ■ How supplied

Assembled

### ■ Note

If required, please also order 19" extrusions (see pages 2.8-2.9) for rear 19" level!

W	H	D	HU/U	h	d (max.)	kg	Model	Order no.	UP
600	478	600	9	450	16	with 19" T-slot extrusion	<b>02.110.007.1</b>	1 unit	
600	612	600	12	450	20	with 19" T-slot extrusion	<b>02.110.012.1</b>	1 unit	
600	745	600	15	450	24	with 19" T-slot extrusion	<b>02.110.017.1</b>	 1 unit	
600	879	600	18	450	28	with 19" T-slot extrusion	<b>02.110.022.1</b>	1 unit	
600	1012	600	21	450	32	with 19" T-slot extrusion	<b>02.110.027.1</b>	 1 unit	
600	1143	600	24	450	36	with 19" T-slot extrusion	<b>02.110.032.1</b>	1 unit	
600	478	800	9	650	19	with 19" T-slot extrusion	<b>02.110.009.1</b>	1 unit	
600	612	800	12	650	23	with 19" T-slot extrusion	<b>02.110.014.1</b>	1 unit	
600	745	800	15	650	27	with 19" T-slot extrusion	<b>02.110.019.1</b>	1 unit	
600	879	800	18	650	31	with 19" T-slot extrusion	<b>02.110.024.1</b>	1 unit	
600	1012	800	21	650	35	with 19" T-slot extrusion	<b>02.110.029.1</b>	 1 unit	
600	1145	800	24	650	39	with 19" T-slot extrusion	<b>02.110.034.1</b>	1 unit	
600	478	600	9	450	16	with 19" mount. holes extru.	<b>02.110.057.1</b>	1 unit	
600	612	600	12	450	20	with 19" mount. holes extru.	<b>02.110.062.1</b>	1 unit	
600	745	600	15	450	24	with 19" mount. holes extru.	<b>02.110.067.1</b>	1 unit	
600	879	600	18	450	28	with 19" mount. holes extru.	<b>02.110.072.1</b>	1 unit	
600	1012	600	21	450	32	with 19" mount. holes extru.	<b>02.110.077.1</b>	1 unit	
600	1145	600	24	450	36	with 19" mount. holes extru.	<b>02.110.082.1</b>	1 unit	
600	478	800	9	650	19	with 19" mount. holes extru.	<b>02.110.059.1</b>	1 unit	
600	612	800	12	650	23	with 19" mount. holes extru.	<b>02.110.064.1</b>	1 unit	
600	745	800	15	650	27	with 19" mount. holes extru.	<b>02.110.069.1</b>	1 unit	
600	879	800	18	650	31	with 19" mount. holes extru.	<b>02.110.074.1</b>	1 unit	
600	1012	800	21	650	35	with 19" mount. holes extru.	<b>02.110.079.1</b>	1 unit	
600	1145	800	24	650	39	with 19" mount. holes extru.	<b>02.110.084.1</b>	1 unit	

Dimensions in mm: W = Width  
H = Height  
D = Depth  
h = Installation height  
d = Useable depth  
L = Length

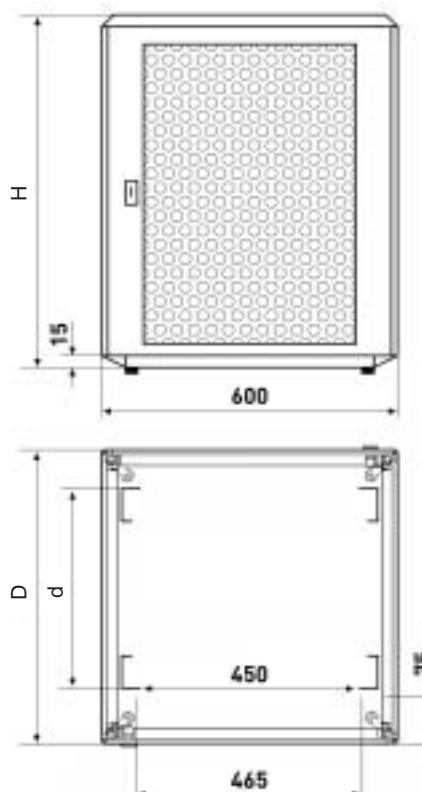
HU = Standard height unit  
1 HU = 44.45 mm  
UP = Unit of packaging  
kg = Weight

 = Express item

Conversion: 1 mm = 0.03937 inch      1 kg = 2.2046 pound



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## smaract 19" Server Compact Rack

### With perforated door

- For components in acc. with IEC 297-3
- Access from all sides, removable covers
- With special 19" server extrusions for mounting trade standard servers
- With perforated doors on the front and rear for optimal airflow
- Door opening angle, 180°

#### Jumpering space

Front, 75 mm

#### Airflow circulation

900 cm<sup>2</sup> with 9 HU  
 1500 cm<sup>2</sup> with 15 HU  
 2100 cm<sup>2</sup> with 21 HU  
 2400 cm<sup>2</sup> with 24 HU

#### Material / Finish

- Basic rack, extruded aluminium, polished
- Corner piece, die-cast aluminium, polished
- Covers, sheet steel, powder-coated texture

#### Colour

**Final digit of order number .1:**

RAL 7035 light-grey

**Final digit of order number .8:**

RAL 7021 dark-grey

#### Supply schedule

- 1 Basic rack
- 2 Side panels, closed, both sides, hinged
- 1 Cover, closed
- 1 Front door with perforation
- 1 Rear door with perforation
- 4 19" server sheet steel mounting hole extrusions
- 1 Earthing set
- 4 Levelling feet

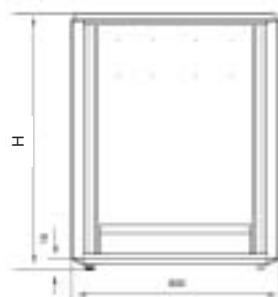
#### Note

Please also order mounting adapter for 19" server extrusions.  
 Set with 4 adapters, 01.127.119.9 (see page 2.9).

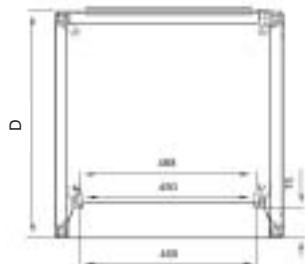
W	H	D	HU/U h	d	kg	Model	Order no.	UP
600	478	900	9	740	21	with 19" server extru., RAL 7035	<b>02.110.010.1</b>	1 unit
600	478	900	9	740	21	with 19" server extru., RAL 7021	<b>02.110.010.8</b>	1 unit
600	745	900	15	740	29	with 19" server extru., RAL 7035	<b>02.110.020.1</b>	1 unit
600	745	900	15	740	29	with 19" server extru., RAL 7021	<b>02.110.020.8</b>	1 unit
600	1012	900	21	740	37	with 19" server extru., RAL 7035	<b>02.110.030.1</b>	1 unit
600	1012	900	21	740	37	with 19" server extru., RAL 7021	<b>02.110.030.8</b>	1 unit
600	1145	900	24	740	41	with 19" server extru., RAL 7035	<b>02.110.035.1</b>	 1 unit
600	1145	900	24	740	41	with 19" server extru., RAL 7021	<b>02.110.035.8</b>	1 unit



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SMA20042

## smaract 19" Compact Rack Enclosure without door

- For built-in units in accordance with IEC 297-3
- Removable covers

### Load rating

- 2000 N static

### Material

- Basic rack: extruded aluminium
- Covers: sheet steel

### Finish

- Basic rack: polished
- Covers: powder-coated textured

### Colour

- RAL 7035 light grey

### Supply schedule

- 1 Basic rack
- 2 Side panels, closed, both sides, hinged
- 1 Cover, closed
- 1 Panel frame, at the front
- 1 Rear door with cable entry, lockable, prepared for ventilation unit
- 2 19" Aluminium vertical extrusions, at the front, with T-slot
- 1 Earthing set
- 4 Levelling feet

### How supplied

- Assembled

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
478	600	9			16		<b>02.110.107.1</b>	1 unit	
745	600	15			24		<b>02.110.117.1</b>	1 unit	
1012	600	21			28		<b>02.110.127.1</b>	1 unit	
478	800	9			19		<b>02.110.109.1</b>	1 unit	
745	800	15			25		<b>02.110.119.1</b>	1 unit	
1012	800	21			31		<b>02.110.129.1</b>	1 unit	

Dimensions in mm: W = Width  
 H = Height  
 D = Depth  
 h = Installation height  
 d = Useable depth  
 L = Length

HU = Standard height unit  
 1 HU = 44.45 mm  
 UP = Unit of packaging  
 kg = Weight

 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20033

## smaract Ventilation Unit

- Easy add-on on the rear panel
- With two axial fans
- With thermostat

### Single fan technical data

- Type 1:
  - Max. volume flow (free blowing): 160 m³/h
  - Noise (free blowing): 46 dB(A)
- Type 2 (quiet):
  - Max. volume flow (free blowing): 100 m³/h
  - Noise (free blowing): 32 dB(A)

### Material / Finish

Sheet steel, zinc-passivated

### Supply schedule

1 Ventilation unit ready for connection  
wired, with thermostat  
Mounting material

### How supplied

Preassembled

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
							Type 1	02.111.180.9	1 unit
							Type 2 (quiet)	02.111.181.9	1 unit



SMA20103

## smaract-19" Aluminium Extrusion

### With T-slot

- For front and rear installation

### Material / Finish

19" Extrusions: extruded aluminium, polished  
Mounting bracket: sheet steel, zinc-passivated

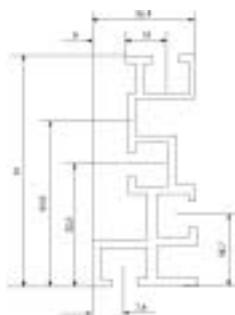
### Supply schedule

2 19" extrusions with T-slot incl.  
increment slide  
4 Mounting brackets  
Mounting material

### How supplied

Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
							9	02.111.146.9	1 unit
							12	02.111.147.9	1 unit
							15	02.111.148.9	1 unit
							18	02.111.149.9	1 unit
							21	02.111.150.9	1 unit
							24	02.111.151.9	1 unit



SMA20105



SMA20104

## smaract 19" Sheet Steel Extrusion

### With mounting holes

- For front and rear installation

### Material / Finish

19" Extrusions: sheet steel, zinc-passivated  
Mounting bracket: sheet steel, zinc-passivated, 1.5 mm

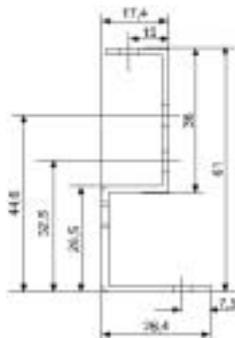
### Supply schedule

2 19" extrusions with mounting holes  
4 Mounting brackets  
Mounting material

### How supplied

Flat packed kit

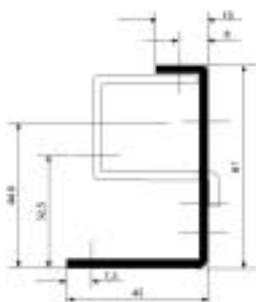
W	H	D	HU/U	h	d	kg	Model	Order no.	UP
							9	02.111.156.9	1 unit
							12	02.111.157.9	1 unit
							15	02.111.158.9	1 unit
							18	02.111.159.9	1 unit
							21	02.111.160.9	1 unit
							24	02.111.161.9	1 unit



SMA20106



MIR20046



MIR20041

## smaract 19" Sheet Steel Server Extrusion

- For front and rear installation

■ **Material / Finish**

Sheet steel, zinc-passivated, 2.5 mm

■ **Supply schedule**

2 19" extrusions with mounting holes  
Mounting material

■ **How supplied**

Flat packed kit

■ **Note**

Please also order mounting adapter  
01.127.119.9 (set with 4 adapters)

W	H	D	HU/U h	d	kg	Model	Order no.	UP
			9				<b>02.111.136.9</b>	1 unit
			12				<b>02.111.137.9</b>	1 unit
			15				<b>02.111.138.9</b>	1 unit
			18				<b>02.111.139.9</b>	1 unit
			21				<b>02.111.140.9</b>	1 unit
			24				<b>02.111.141.9</b>	1 unit



MIR20044

## Mounting Adapter for 19" Server Extrusion

- For mounting Knürr standard components (storage shelves, drawers, chassis rails, keyboard runners, etc.) in 19" installation space

■ **Material**

Sheet steel, zinc-passivated

■ **Supply schedule**

4 Adapters

W	H	D	HU/U h	d	kg	Model	Order no.	UP
			1				<b>01.127.119.9</b>	1 unit



MIR20082

Dimensions in mm: W = Width  
H = Height  
D = Depth  
h = Installation height  
d = Useable depth  
L = Length

HU = Standard height unit  
1 HU = 44.45 mm

UP = Unit of packaging  
kg = Weight

= Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20172

## Depth strut

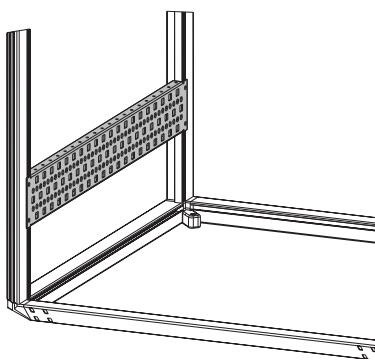
- For additional rack strength
- For routing cables with cable ties and as universal mounting option
- With holes for mounting caged nuts
- Variable positioning with T-slot
- Installation on the frame extrusions

**Material / Finish**  
Sheet steel, 1.5 mm, zinc-passivated

**Supply schedule**  
1 depth strut  
Mounting material

**How supplied**  
Flat-packed kit

W	H	D	HU/U h	d	kg	Model	Order no.	UP
			600			<b>02.111.002.0</b>		1 unit
			800			<b>02.111.004.0</b>		1 unit
			900			<b>02.111.005.0</b>		1 unit



SMA20173



SMA20031

## smaract Rear Door Closed

**Supply schedule**  
1 Rear panel, closed  
Mounting material

**Material / Finish**  
Sheet steel, powder-coated texture

**How supplied**  
Flat packed kit

**Colour**  
RAL 7035 light-grey

W	H	D	HU/U h	d	kg	Model	Order no.	UP
			9			<b>02.111.076.1</b>		1 unit
			12			<b>02.111.077.1</b>		1 unit
			15			<b>02.111.078.1</b>		1 unit
			18			<b>02.111.079.1</b>		1 unit
			21			<b>02.111.080.1</b>		1 unit
			24			<b>02.111.081.1</b>		1 unit



SMA20028

## smaract Top Cover/Bottom Cover Closed

**Material / Finish**  
Sheet steel, powder-coated texture

**Colour**  
**Final digit of order number .1:**  
RAL 7035 light-grey  
**Final digit of order number .8:**  
RAL 7021 dark-grey

**Supply schedule**  
1 Bottom cover, closed  
Mounting material

**How supplied**  
Flat packed kit

**Note**  
Use of the bottom cover in combination  
with the stationary plinth is not possible

W	H	D	HU/U h	d	kg	Model	Order no.	UP
600	600						<b>02.111.052.1</b>	1 unit
600	800						<b>02.111.054.1</b>	1 unit
600	900						<b>02.111.055.1</b>	1 unit
600	900						<b>02.111.055.8</b>	1 unit



SMA20168

## smaract Top Cover/Bottom Cover With cable entry

- With integrated cable clamping
- With brush strip for cable entry

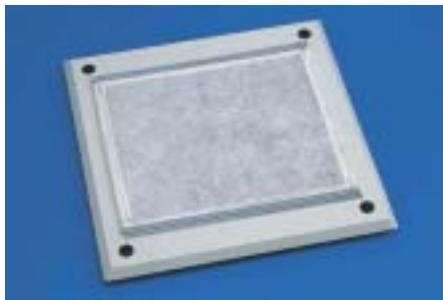
**Material / Finish**  
Sheet steel, powder-coated texture

**Colour**  
**Final digit of order number .1:**  
RAL 7035 light-grey  
**Final digit of order number .8:**  
RAL 7021 dark-grey

**Supply schedule**  
1 Bottom cover with cable routing  
1 Brush strip  
Mounting material

**How supplied**  
Flat packed kit

W	H	D	HU/U h	d	kg	Model	Order no.	UP
600	600						<b>02.111.042.1</b>	1 unit
600	800						<b>02.111.044.1</b>	1 unit
600	900						<b>02.111.045.1</b>	1 unit
600	900						<b>02.111.045.8</b>	1 unit



SMA20029

## smaract Bottom Cover, Perforated With filter mat

- For cooling using air convection

**Material / Finish**  
Bottom cover: sheet steel, powder-coated  
texture  
Filter mat: filedon

**Colour**  
RAL 7035 light-grey

**Supply schedule**  
1 Perforated bottom cover with filter mat  
Mounting material

**How supplied**  
Flat packed kit

W	H	D	HU/U h	d	kg	Model	Order no.	UP
600	600						<b>02.111.062.1</b>	1 unit
600	800						<b>02.111.064.1</b>	1 unit
600	900						<b>02.111.065.1</b>	1 unit

Dimensions in mm: W = Width  
H = Height  
D = Depth  
h = Installation height  
d = Useable depth  
L = Length  
HU = Standard height unit  
1 HU = 44.45 mm  
UP = Unit of packaging  
kg = Weight  
 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20058

## smaract Replacement Filter

### For smaract perforated bottom cover

- For use in conjunction with perforated bottom cover

**Supply schedule**  
5 Replacement filters

**Material**

Filedon

**How supplied**

Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
							for T600	<b>02.111.068.9</b>	5 units
							for T800	<b>02.111.069.9</b>	5 units
							for T900	<b>02.111.069.9</b>	5 units



SMA20091

## smaract Plinth

- Stationary
- Cable entry possible from all sides
- Panels front and rear with vent slots and installation option for filter

**Supply schedule**  
4 Plinth corners  
2 Closed panels  
2 Panels, with vent slots  
Mounting material

**Material / Finish**

Sheet steel, powder-coated texture

**How supplied**

Flat packed kit

**Colour**

Final digit of order number .1:

RAL 7035 light-grey

Final digit of order number .8:

RAL 7021 dark-grey

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	100	600					02.111.201.1		1 set
600	100	800					02.111.203.1		1 set
600	100	900					02.111.204.1		1 set
600	100	900					02.111.204.8		1 set



SMA20095

## smaract Plinth Trims with Cable Entry

### For use in conjunction with the plinth

- For use in conjunction with the plinth

**Colour**  
RAL 7035 light-grey

**Material / Finish**

Sheet steel, powder-coated texture

**How supplied**

Flat packed kit

**Supply schedule**

1 Trim with cable entry

1 Brush strip

Mounting material

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600							02.111.206.1		1 unit



SMA20098



SMA20034

## smaract Twin Castor

- Height 50 mm
- **Colour**  
RAL 9011, graphite black
- **Load rating**  
400 N per castor  
1200 N max. static total load per rack

- **Supply schedule**  
2 Twin castors  
2 Fixed castors
- **Standards**  
Castors in acc. with DIN 12530  
Load rating in acc. with DIN 12527
- **How supplied**  
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
								02.111.175.9	4 units



SMA20035

## smaract Stacking Set

- Fixed connection for stacking compact racks
- **Material / Finish**  
Steel, cold rolled, zinc-passivated

- **Supply schedule**  
4 Stacking elements  
Mounting material
- **How supplied**  
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
								02.111.171.9	4 units



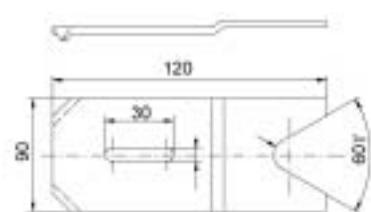
MEC00074

## smaract Eyebolt Set

- For hanging on crane hooks
- Load rating, 1900 N static per ring screw
- **Material / Finish**  
Tool steel, forged

- **Supply schedule**  
4 Eyebolts
- **How supplied**  
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
								01.243.440.9	4 units



MIR00319

## Base Fixing Assembly Kit

- **Material**  
Sheet steel, 3.0 mm
- **Finish**  
Zinc-passivated

- **Supply schedule**  
4 Clamping plates

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
								01.130.934.7	1 unit

Dimensions in mm: W = Width  
H = Height  
D = Depth  
h = Installation height  
d = Useable depth  
L = Length

HU = Standard height unit  
1 HU = 44.45 mm  
UP = Unit of packaging  
kg = Weight

= Express item

Conversion: 1 mm = 0.03937 inch

1 kg = 2.2046 pound



SMA20094



SMA20085

## smaract Wall Mounting Bracket

**Material / Finish**  
Sheet steel, powder-coated texture

**Colour**  
RAL 7035 light-grey

**Supply schedule**  
2 Wall mounting brackets  
Drill hole template  
Mounting material

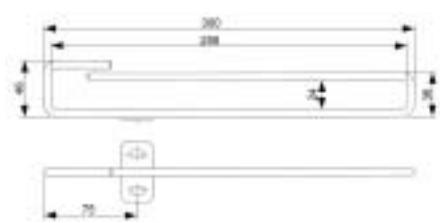
**Load rating**  
500 N

**How supplied**  
Flat packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600								02.111.220.9	1 set



ELM00006



## Jumpering Bracket, Rectangular

- For tidy and orderly cable management
- Open version, no tedious cable looping
- Mounting on the external side of the 19"
- Installation position freely selectable

**Material / Finish**  
Round steel, d = 5 mm, zinc-passivated

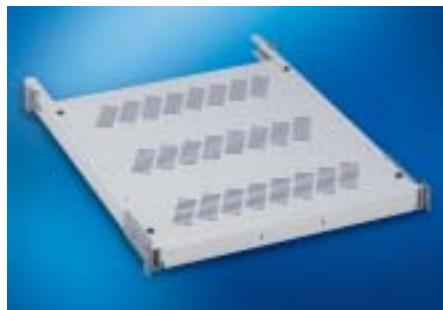
**Supply schedule**  
1 Jumpering bracket, rectangular

**How supplied**  
In units

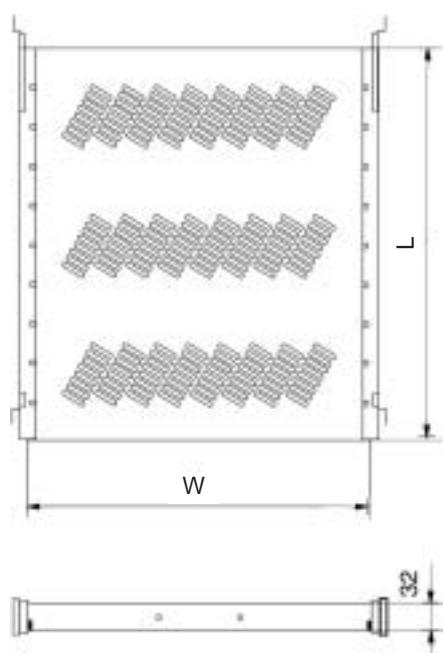
**Note**  
Please also order the appropriate mounting material.

W	H	D	HU/U	Model	Order no.	UP
600				smaract	01.117.179.7	1 unit

MEC20116



MEC00451



MEC20018

## 19" Shelf Fixed

- With perforation to optimise air supply

### ■ Material / Finish

Sheet steel 1.0 mm, zinc-passivated, powder-coated texture

### ■ Colour

Final digit of order number .1: RAL 7035, light-grey

Final digit of order number .8: RAL 7021, dark-grey

### ■ Load rating

500 N static per item

### ■ Supply schedule

2 Mounting rails, incl. mounting bracket  
1 Shelf board  
1 Extension board (from L = 600)  
Mounting material

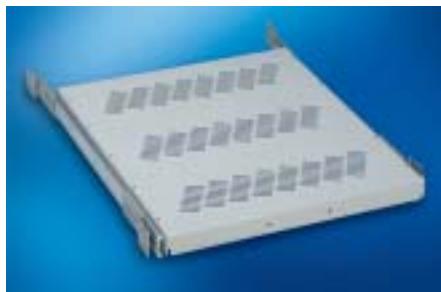
### ■ How supplied

Flat packed kit

W	H	D	HU	d	W x L	For rack type	Order no.	UP
19"	600	365	365	430 x 300	smaract LAN	<b>01.102.001.1</b>		1 unit
19"	600	440	430	430 x 300	smaract 19"	<b>01.102.002.1</b>		1 unit
19"	800	565	430	430 x 500	smaract LAN	<b>01.102.003.1</b>		1 unit
19"	800	565	430	430 x 500	smaract LAN	<b>01.102.003.8</b>		1 unit
19"	800	640	430	430 x 600	smaract 19"	<b>01.102.004.1</b>		1 unit
19"	800	640	430	430 x 600	smaract 19"	<b>01.102.004.8</b>		1 unit
19"	900	665	430	430 x 600	smaract LAN	<b>01.102.004.1</b>		1 unit
19"	900	665	430	430 x 600	smaract LAN	<b>01.102.004.8</b>		1 unit
19"	900	740	430	430 X 600	smaract 19" Server	<b>01.102.005.1</b>		1 unit
19"	900	740	430	430 X 600	smaract 19" Server	<b>01.102.005.8</b>		1 unit
600	600	535	515	500	smaract CW 535	<b>01.102.252.1</b>		1 unit
600	800	735	515	700	smaract CW 535	<b>01.102.254.1</b>		1 unit
600	900	835	515	800	smaract CW 535	<b>01.102.255.1</b>		1 unit

Dimensions in mm: W = Width  
H = Height  
D = Depth  
h = Installation height  
d = Useable depth  
L = Length  
HU = Standard height unit  
1 HU = 44.45 mm  
UP = Unit of packaging  
kg = Weight  
 = Express item

Conversion: 1 mm = 0.03937 inch  
1 kg = 2.2046 pound



MEC00452

## 19" Shelf Part pull-out

- With perforation to optimise air supply

**Material / Finish**

Sheet steel 1.0 mm, zinc-passivated, powder-coated texture

**Colour**

Final digit of order number .1: RAL 7035, light-grey

Final digit of order number .8: RAL 7021 dark-grey

**Load rating**

500 N static per item

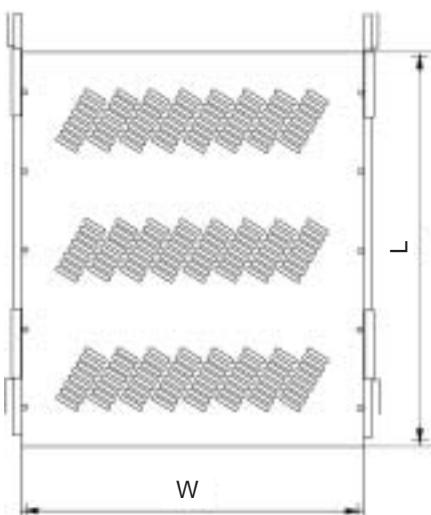
**Supply schedule**

1 Pair of telescopic slides  
1 Shelf board  
1 Extension board (from L = 600)  
Mounting material

**How supplied**

Flat packed kit

B	H	D	HU	d	WxL	For rack type	Order no.	UP
19"	600		365	430 x 300		smaract LAN	<b>01.102.010.1</b>	1 unit
19"	600		440	430 x 300		smaract 19"	<b>01.102.010.1</b>	1 unit
19"	800		565	430 x 500		smaract LAN	<b>01.102.011.1</b>	1 unit
19"	800		565	430 x 500		smaract LAN	<b>01.102.011.8</b>	1 unit
19"	800		640	430 x 500		smaract 19"	<b>01.102.011.1</b>	1 unit
19"	800		640	430 x 500		smaract 19"	<b>01.102.011.8</b>	1 unit
19"	900		665	430 x 500		smaract LAN	<b>01.102.011.1</b>	1 unit
19"	900		665	430 x 500		smaract LAN	<b>01.102.011.8</b>	1 unit
19"	900		740	430 x 600		smaract 19" Server	<b>01.102.012.1</b>	1 unit
19"	900		740	430 x 600		smaract 19" Server	<b>01.102.012.8</b>	1 unit



MEC20019



MEC20131



TEM00066



MEC20112

## Chassis Rail Screw-on

- For installation in 19" rack and enclosure
- For heavy components

### Material

Extruded aluminium, 2.0 mm

### Finish

Polished

### Supply schedule

1 Chassis rail

### Load rating

500 N static per item

### Note

When selecting the chassis rail, please note the chassis depth  $d$  of the rack or enclosure

When mounting on the T-slot, please also order M5 spring nut: 05.041.503.9 (set of 50 units).

W	H	D	HU	d	L	For rack type	Order no.	UP
		600		365	311	smaract LAN	<b>01.110.657.0</b>	1 unit
		600		440	386	smaract 19"	<b>01.110.726.0</b>	1 unit
		800		565	511	smaract LAN	<b>01.110.658.0</b>	1 unit
		800		640	586	smaract 19"	<b>01.110.727.0</b>	1 unit
		900		665	611	smaract LAN	<b>01.110.659.0</b>	1 unit
		900		740	686	smaract 19" Server	<b>01.110.728.0</b>	1 unit



SCH00058

## 19" Drawer Installation on the front

- For installation on the front 19" extrusions
- For storing service documents
- Simple and quick mounting

### Material / Finish

Drawer, sheet steel 1.0 mm, powder-coated texture  
Telescopic slides, sendzimir zinc-coated

### Load rating

150 N static

### Supply schedule

1 19" Drawer with lock, including key  
1 Pair of telescopic slides  
Mounting material

### How supplied

Preassembled

### Colour

Final digit of order number .1:  
RAL 7035, light-grey  
Final digit of order number .8:  
RAL 7021, dark-grey

W	H	D	HU	For rack type	Order no.	UP
19"	43.6	600-1000	1	miracel/smaract/MaxLoad/doubleprorack/ConAct	<b>01.113.926.1</b>	1 unit
19"	88.1	600-1000	2	miracel/smaract/MaxLoad/doubleprorack/ConAct	<b>01.113.927.1</b>	1 unit
19"	88.1	600-1000	2	miracel/smaract/MaxLoad/doubleprorack/ConAct	<b>01.113.927.8</b>	1 unit
19"	132.5	600-1000	3	miracel/smaract/MaxLoad/doubleprorack/ConAct	<b>01.113.928.1</b>	1 unit



SCH00054



MEC20129

## Front Panel Mounting Kit, T-Slot, M5, Wide

- For mounting 19" front panels and 19" components

**Supply schedule**

50 spring nuts, M5 wide  
50 oval head screws, Z form, M5 x 10

**How supplied**

Flat packed kit

W	H	D	HU	d	L	Model	Order no.	UP
						Z-form screw	<b>05.041.335.9</b>	1 set



MEC20098

## Front Panel Mounting Kit, Mounting Holes, M5/Plate, 1.5 mm

- For mounting 19" front panels and 19" components

**Supply schedule**

50 caged nuts, M5 / plate 1.5 mm 50 oval head screws, M5 x 16

**How supplied**

Flat packed kit

W	H	D	HU	d	L	Model	Order no.	UP
						Z-form screw	<b>05.041.336.9</b>	1 set



MEC20098

## Front Panel Mounting Kit, Mounting Holes, M5/Plate, 2.5 mm

- For mounting 19" front panels and 19" components

**Supply schedule**

50 caged nuts, M5 / plate 2.5 mm  
50 oval head screws, Z form, M5 x 16

**How supplied**

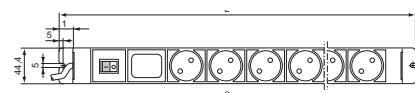
Flat packed kit

W	H	D	HU	d	L	Model	Order no.	UP
						Z-form screw	<b>05.041.337.9</b>	1 set



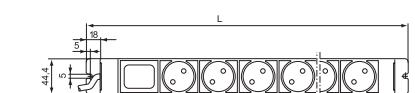
DOS00401

With switch



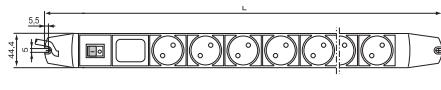
DOS00262

With switch



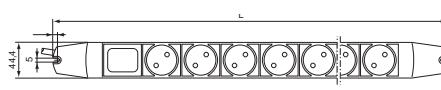
DOS20020

Without switch



DOS20021

With switch



DOS00263

Without switch

## DI-STRIP Compact

- Optionally with lit switch, 2-pole switching
- 19" Installation option (with length 483 mm)
- 2 Versions: Standard side panel or Design side panel
- Socket rotation: 45°
- Cable: H05VV-F 3G 1.5 mm<sup>2</sup>
- Moulded right angle plug

### Material / Finish

Enclosure: closed sheet steel extrusion, zinc-passivated, powder-coated texture  
 Plastic parts: polyamide PA 6 (UL 94 V0), recyclable  
 Internal conductor: full-length busbar, brass  
 Cable: PVC

### Dimensions

Socket spacing: 50 mm  
 Height: 45.5 mm  
 Casing width: 44.4 mm (= 1 HU)  
 Cable: 2.5 m

### Approvals

CE Label in accordance with the low voltage guideline 73/23/EWG, EMC guideline 89/336/EWG  
 VDE Certificate

### Colour combination

Final digit of order number .1: RAL 7035, light-grey  
 Final digit of order number .6: Casing, RAL 2003, pastel orange  
 Plastic parts: RAL 7035, light-grey

### Load rating

250 VAC/16 A

### Supply schedule

1 Socket strip  
 2 Mounting brackets  
 2 19" Mounting brackets  
 (additional with 19" installation option)

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
483		7	●		●			03.300.007.x	1 unit
483		7	●		●	●		03.400.007.x	1 unit

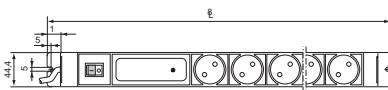
Dimensions in mm:  
 L = Length, S = Switch, n = Number of sockets,  
 F1 = Standard side piece, F2 = Design side piece,  
 19" = Suitable for 19" installation, Safe = Child-safe  
 HU = Standard height unit, UP = Unit of packaging

Replace .x with the number of the required colour combination:  
 .1 = RAL 7035, .6 = RAL 7035/RAL 2003



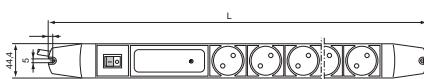
DOS20069

With overvoltage protection and mains filter



DOS00307

With overvoltage protection and mains filter



DOS00271

## DI-STRIP Safety Standard with switch

- With overvoltage protection
- With integrated mains filter
- With lit switch, 2-pole switching
- A combination of varistors and gas discharge arresters guarantee a rapid response and high discharge capacity
- Simple but effective protection against indirect strikes and voltage spikes from the mains and high frequency disturbance signals
- Overvoltage protection:
  1. Up to max. surge current resistance, transient overvoltages are reduced to non-damaging values
  2. If the surge current resistance is exceeded, the connected equipment is separated from the mains to protect against further overvoltage spikes (the green function display goes off). The protection module must then be changed for further use. To increase the protection function, a coarse filter should be switched in advance in the building installation.
- Mains filter:
  - High-frequency disturbance signals are effectively eliminated by the low-pass mains filter
  - 19" Installation option (with length 483 mm)
  - Socket rotation: 45°
  - Cable: H05VV-F 3G 1.5 mm<sup>2</sup>
  - Moulded right angle plug

### Material / Finish

Enclosure: closed sheet steel extrusion, zinc-passivated, powder-coated texture  
 Plastic parts: polyamide PA 6 (UL 94 V0), recyclable  
 Internal conductor: full-length busbar, brass  
 Cable: PVC

### Dimensions

Socket spacing: 50 mm  
 Height: 45.5 mm  
 Casing width: 44.4 mm (= 1 HU)  
 Cable: 2.5 m

### Approvals

CE Label in accordance with the low voltage guideline 73/23/EWG, EMC guideline 89/336/EWG  
 VDE Certificate

### Colour combination

Final digit of order number .1: RAL 7035, light-grey  
 Final digit of order number .6: Casing, RAL 2003, pastel orange  
 Plastic parts: RAL 7035, light-grey

### Technical data

Mains voltage 230 VAC +/- 10 %  
 Nominal current 16A  
 Feature class: D (refined protection in accordance with DIN VDE 0675)  
 Surge current resistance (8/20 µs wave): max. 10 kA  
 Protection level (1.5/50 µs wave): < 1200 V (L/N against PE)  
 Mains filter (high-stop): attenuation at 1MHz -> 45 dB

### Supply schedule

1 Socket strip  
 2 Mounting brackets  
 2 19" Mounting brackets  
 (additional with 19" installation option)

L	S	n	F1	F2	19"	Safe	Model	Order no.	UP
483	●	5	●		●		Standard DIN 49440	03.318.005.x	1 Stk
483	●	5	●		●	●	French/Belg. Standard	03.418.005.x	1 Stk



## Equipotential Bonding Bar

- For central earthing of all protective conductors
- With sealing cover
- Connection options:
  - 1 x Round conductor 8-10 mm Ø
  - 1 x Flat conductor up to 30 mm wide or round conductor 8-10 mm Ø
  - 7 x one or several-wire conductors up to 16 mm<sup>2</sup> or fine wire conductor up to 10 mm<sup>2</sup>

### Material

Base and cover, high-impact plastic  
 Contact strip, brass, nickel-plated

### Supply schedule

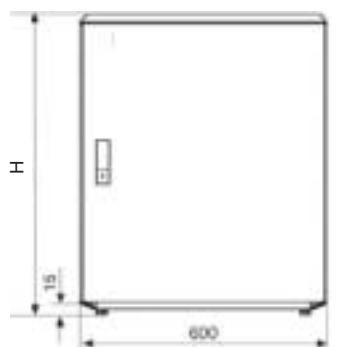
1 Equipotential bonding bar

W	H	S	HU/U	h	d	b	Model	Order no.	UP
							01.117.524.3		1 unit

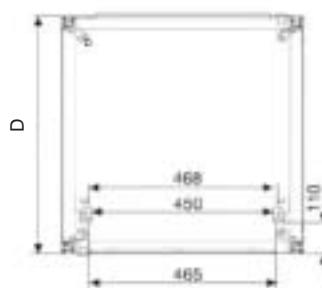
ELM00114



SMA20065



SMA20059



## smaract 19" Enclosure, EMC, with sheet steel door

- For installation in accordance with IEC 297-3

- Removable covers

### Load rating

- 2000 N static

### Material

- Basic rack: extruded aluminium  
- Covers: sheet steel  
- EMC spring: stainless steel

### Finish

- Basic rack: polished  
- Covers: powder-coated textured

### Colour

- RAL 7035 light grey

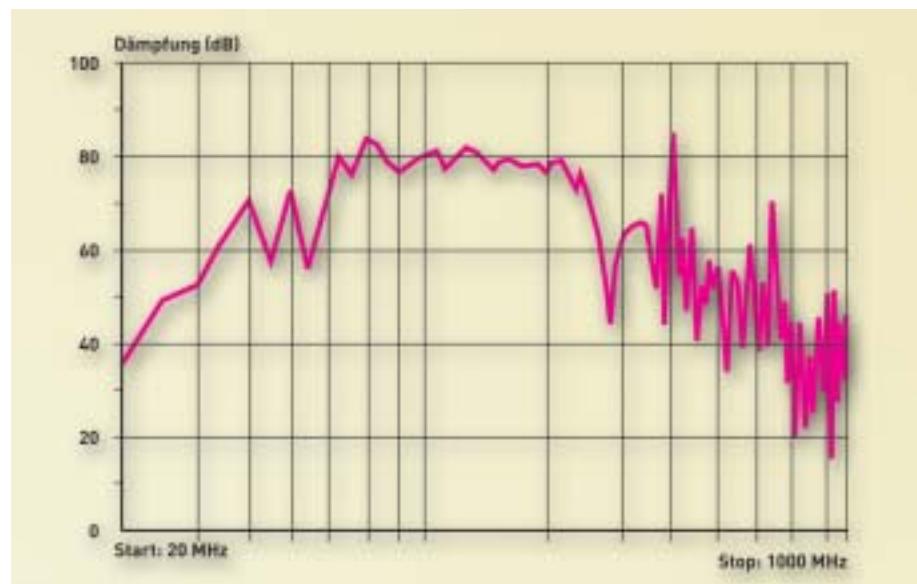
### Supply schedule

1 Basic rack  
2 Side panels, EMC, closed, hinged on both sides  
1 Top cover, EMC, closed  
1 Bottom cover, EMC, closed  
1 Front door, EMC, closed  
1 Rear door, EMC, closed, screwed  
2 19" Aluminium vertical extrusions, front, with T-Slot, incl. increment slide  
1 Earthing set  
4 Levelling feet

### How supplied

- Assembled

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	612	600	12			28		<b>02.110.312.1</b>	1 unit
600	879	600	18			36		<b>02.110.322.1</b>	1 unit
600	1145	600	24			44		<b>02.110.332.1</b>	1 unit
								<b>02.110.314.1</b>	1 unit
600	612	800	12			32		<b>02.110.324.1</b>	1 unit
600	879	800	18			40		<b>02.110.334.1</b>	1 unit
600	1145	800	24			48			



TEC20098

EMC measurements were carried out by Plem Electronic GmbH, Frontenhausen

Tests were carried out in accordance with the following standard: VG 95373 part 15

Tested rack  
W 600, D 600, H 1150, closed version

Dimensions in mm: W = Width  
H = Height  
D = Depth  
h = Installation height  
d = Useable depth  
L = Length  
HU = Standard height unit  
1 HU = 44.45 mm  
UP = Unit of packaging  
kg = Weight  
E = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20148

## smaract Connection panel EMC, closed

- EMC shielded
- Screwed

### Material

- Cover: sheet steel
- EMC spring: stainless steel

### Finish

- Powder-coated textured

### Colour

- RAL 7035 light grey

### Supply schedule

- 1 Connection panel
- 2 Brackets
- Mounting hardware

### How supplied

- Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	131,3			3				<b>02.111.351.1</b>	1 set



SMA20137

## smaract Connection panel EMC, with cable entry

- EMC shielded
- Screwed

### Material

- Cover: sheet steel
- EMC spring: stainless steel
- EMC sealing extrusion: rubber with stainless steel mesh

### Finish

- Powder-coated textured

### Colour

- RAL 7035 light grey

### Supply schedule

- 1 Connection panel with cable entry
- 2 Brackets
- Mounting hardware

### How supplied

- Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	131,3			3				<b>02.111.361.1</b>	1 set

SMA20145



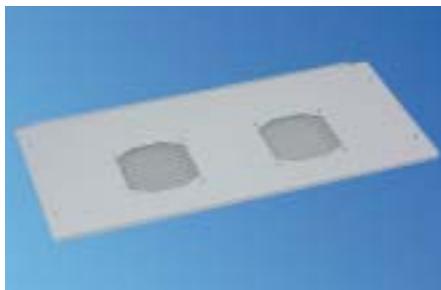
SMA20137

Dimensions in mm: W = Width  
 H = Height  
 D = Depth  
 h = Installation height  
 d = Useable depth  
 L = Length

HU = Standard height unit  
 1 HU = 44,45 mm  
 UP = Unit of packaging  
 kg = Weight

 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20150



SMA20135



SMA20152



SMA20137

## smaract Connection panel EMC, for fan unit

- EMC shielded
- Screwed

### Material

- Cover: sheet steel
- EMC spring: stainless steel

### Finish

- Powder-coated textured

### Colour

- RAL 7035 light grey

### Supply schedule

- 1 Connection panel for fan unit
- 2 Brackets
- Mounting hardware

### How supplied

- Flat-packed kit

### Note

Fitting ventilation unit: 02.111.180.9

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	264,6	6					02.111.372.1		1 set

## smaract Rear panel EMC, closed

- EMC shielded
- Screwed

### Material

- Cover: sheet steel
- EMC spring: stainless steel

### Finish

- Powder-coated textured

### Colour

- RAL 7035 light grey

### Supply schedule

- 1 Connection panel for fan unit
- 2 Brackets
- Mounting hardware

### How supplied

- Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	556,3	12					02.111.354.1		1 set
600	689,6	15					02.111.355.1		1 set

Dimensions in mm: W = Width  
 H = Height  
 D = Depth  
 h = Installation height  
 d = Useable depth  
 L = Length

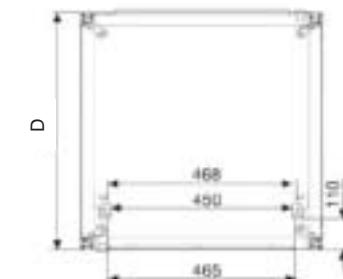
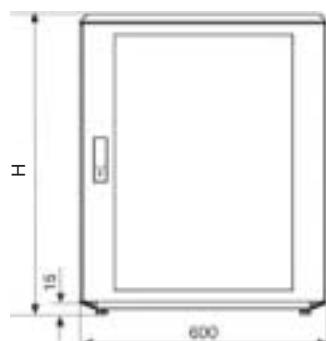
HU = Standard height unit  
 1 HU = 44,45 mm  
 UP = Unit of packaging  
 kg = Weight

 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



SMA20062



SMA20108

Dimensions in mm: W = Width  
 H = Height  
 D = Depth  
 h = Installation height  
 d = Useable depth  
 L = Length

HU = Standard height unit  
 1 HU = 44.45 mm  
 UP = Unit of packaging  
 kg = Weight  


Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound

## smaract 19" Enclosure IP54, with glass door

- For installations in accordance with IEC 297-3
- Removable covers

### Load rating

- 2000 N static

### Degree of protection

- IP 54

### Material

- Basic rack: extruded aluminium
- Covers: sheet steel
- Foam sealing: polyurethane

### Finish

- Basic rack: polished
- Covers: powder-coated textured

### Colour

- RAL 7035 light grey

### Supply schedule

- 1 Basic rack
- 2 Side panels, IP 54, closed, hinged on both sides
- 1 Top cover, IP 54, closed
- 1 Bottom cover, IP 54, closed
- 1 Glass front door IP 54
- 1 Rear door, IP 54, closed, screwed
- 2 19" Aluminium vertical extrusions, front, with T-Slot, incl. increment slide
- 1 Earthing set
- 4 Levelling feet

### How supplied

- Assembled

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	612	600	12			28	<b>02.110.212.1</b>	1 unit	
600	879	600	18			36	<b>02.110.222.1</b>	1 unit	
600	1146	600	24			44	<b>02.110.232.1</b>	1 unit	
600	612	800	12			32	<b>02.110.214.1</b>	1 unit	
600	879	800	18			40	<b>02.110.224.1</b>	1 unit	
600	1146	800	24			48	<b>02.110.234.1</b>	1 unit	



## Use also: the current Network Special Catalogue!

Where you will find more products:

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SMA20148

## smaract Connection panel IP 54, closed

- IP 54 protection rating
- Screwed
- Material**
  - Cover: sheet steel
  - Foam sealing: polyurethane
- Finish**
  - Powder-coated textured

- Colour**
  - RAL 7035 light grey

- Supply schedule**
  - 1 Connection panel
  - 2 Brackets
  - Mounting hardware

- How supplied**
  - Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	131,3			3				<b>02.111.301.1</b>	1 set



SMA20138



SMA20139

## smaract Connection panel IP 54, with cable entry

- Possible seal up: IP 54
- Screwed
- Material**
  - Cover: sheet steel
  - Foam sealing: polyurethane
  - Sealing extrusion: foam-rubber seal
- Finish**
  - Powder-coated textured

- Colour**
  - RAL 7035 light grey

- Supply schedule**
  - 1 Connection panel with cable entry
  - 2 Brackets
  - Mounting hardware

- How supplied**
  - Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	131,3			3			Typ 1	<b>02.111.311.1</b>	1 set
600	131,3			3			Typ 2	<b>02.111.312.1</b>	1 set



SMA20169



SMA20138



SMA20143

## smaract Connection panel IP 54, for fan unit

- IP 54 protection rating
- Screwed

### Material

- Covers: sheet steel
- Foam sealing: polyurethane
- Exit filter: ABS plastic, UL94 V-0

### Finish

- Powder-coated textured

### Colour

- RAL 7035 light grey

### Supply schedule

- 1 Connection panel for fan unit
- 2 Brackets
- Mounting hardware

### How supplied

- Flat-packed kit

### Note

Fitting ventilation unit: 02.111.180.9

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	264,6			6				<b>02.111.322.1</b>	1 set



SMA20136

## smaract Rear panel IP 54, closed

- IP 54 protection rating
- Screwed

### Material

- Covers: sheet steel
- Foam sealing: polyurethane

### Finish

- Powder-coated textured

### Colour

- RAL 7035 light grey

### Supply schedule

- 1 Connection panel for fan unit
- 2 Brackets
- Mounting hardware

### How supplied

- Flat-packed kit

W	H	D	HU/U	h	d	kg	Model	Order no.	UP
600	289,6			6				<b>02.111.302.1</b>	1 set
600	422,9			9				<b>02.111.303.1</b>	1 set
600	556,3			12				<b>02.111.304.1</b>	1 set
600	689,6			15				<b>02.111.305.1</b>	1 set
600	823			18				<b>02.111.306.1</b>	1 set
600	956,3			21				<b>02.111.307.1</b>	1 set

SMA20141



SMA20138

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**Knürr AG**  
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Mariakirchener Straße 38  
94424 Arnstorf • Germany  
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www.knuerr.com